

# FIBER, WIRE & CABLE MANAGEMENT



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## CABLE CLAMPS

### SPN/SPNW Series

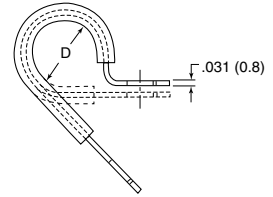
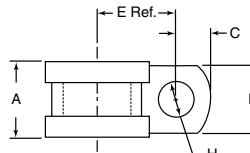
#### Steel Clamp with Rubber Cushion

##### Specifications:

- Material: Cold Rolled Steel, Zinc Electroplated, Elastomer Cushion
- Color: Steel with Black Cushion

##### Features:

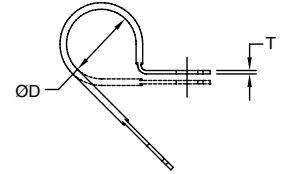
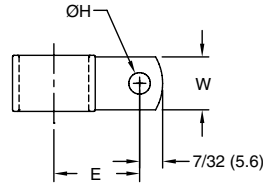
- Provides electrical insulation and vibration absorption
- Ideal for long-life applications



| Item No. | Ø D Holding |      | Ø H Hole |      | B     |      | A     |      | E Ref. |      | C     |     | Bulk Pack Qty |
|----------|-------------|------|----------|------|-------|------|-------|------|--------|------|-------|-----|---------------|
|          | in          | mm   | in       | mm   | in    | mm   | in    | mm   | in     | mm   | in    | mm  |               |
| SPN-3    | 3/16        | 4.8  | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.500  | 12.7 | 0.260 | 6.6 | 500           |
| SPN-4    | 1/4         | 6.4  | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.530  | 13.5 | 0.260 | 6.6 | 500           |
| SPNW-4   | 1/4         | 6.4  | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.530  | 13.5 | 0.313 | 7.9 | 100           |
| SPN-5    | 5/16        | 7.9  | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.560  | 14.2 | 0.260 | 6.6 | 500           |
| SPNW-5   | 5/16        | 7.9  | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.560  | 14.2 | 0.313 | 7.9 | 100           |
| SPN-6    | 3/8         | 9.5  | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.590  | 15   | 0.260 | 6.6 | 500           |
| SPNW-6   | 3/8         | 9.5  | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.590  | 15   | 0.313 | 7.9 | 100           |
| SPN-7    | 7/16        | 11.1 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.620  | 15.7 | 0.260 | 6.6 | 500           |
| SPNW-7   | 7/16        | 11.1 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.620  | 15.7 | 0.313 | 7.9 | 100           |
| SPN-8    | 1/2         | 12.7 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.650  | 16.5 | 0.260 | 6.6 | 500           |
| SPNW-8   | 1/2         | 12.7 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.650  | 16.5 | 0.313 | 7.9 | 100           |
| SPN-9    | 9/16        | 14.3 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.750  | 19.1 | 0.260 | 6.6 | 500           |
| SPN-10   | 5/8         | 15.9 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.780  | 19.8 | 0.260 | 6.6 | 500           |
| SPNW-10  | 5/8         | 15.9 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.780  | 19.8 | 0.313 | 7.9 | 100           |
| SPN-11   | 11/16       | 17.5 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.810  | 20.6 | 0.260 | 6.6 | 500           |
| SPNW-11  | 11/16       | 17.5 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.810  | 20.6 | 0.313 | 7.9 | 100           |
| SPN-12   | 3/4         | 19.1 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.840  | 21.3 | 0.260 | 6.6 | 500           |
| SPN-14   | 7/8         | 22.2 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.900  | 22.9 | 0.260 | 6.6 | 100           |
| SPNW-14  | 7/8         | 22.2 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.900  | 22.9 | 0.313 | 7.9 | 100           |
| SPNW-16  | 1           | 25.4 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 0.960  | 24.4 | 0.260 | 6.6 | 100           |
| SPNW-16  | 1           | 25.4 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.960  | 24.4 | 0.313 | 7.9 | 100           |
| SPN-18   | 1-1/8       | 28.6 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 1.050  | 26.7 | 0.260 | 6.6 | 100           |
| SPN-20   | 1-1/4       | 31.8 | 0.266    | 6.7  | 0.500 | 12.7 | 0.650 | 16.5 | 1.110  | 28.2 | 0.260 | 6.6 | 100           |
| SPNW-20  | 1-1/4       | 31.8 | 0.406    | 10.3 | 0.625 | 15.9 | 0.750 | 19.1 | 1.110  | 28.2 | 0.313 | 7.9 | 100           |

### NE Series

#### Aluminum Clamp with Vinyl Coating



##### Specifications:

- Material: Aluminum Alloy 5052 H-32, TPV Coating
- Color: Aluminum with Black Coating

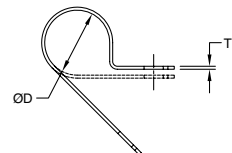
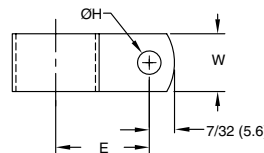
##### Features:

- Vinyl coating allows a more permanent solution for protecting cables against vibration
- Screw mount area is bare to ensure firm tightening

| Item No. | Ø D Holding |      | Ø H Hole |     | W     |      | E Ref. |      | T    |     | Bulk Pack Qty |
|----------|-------------|------|----------|-----|-------|------|--------|------|------|-----|---------------|
|          | in          | mm   | in       | mm  | in    | mm   | in     | mm   | in   | mm  |               |
| NE3      | 3/16        | 4.8  | 0.204    | 5.2 | 0.375 | 9.5  | 0.50   | 12.7 | 1/32 | 0.8 | 1000          |
| NE4      | 1/4         | 6.4  | 0.204    | 5.2 | 0.375 | 9.5  | 0.53   | 13.5 | 1/32 | 0.8 | 1000          |
| NE5      | 5/16        | 7.9  | 0.204    | 5.2 | 0.375 | 9.5  | 0.56   | 14.2 | 1/32 | 0.8 | 1000          |
| NE6      | 3/8         | 9.5  | 0.204    | 5.2 | 0.375 | 9.5  | 0.59   | 15.0 | 1/32 | 0.8 | 1000          |
| NE7      | 7/16        | 11.1 | 0.204    | 5.2 | 0.375 | 9.5  | 0.62   | 15.7 | 1/32 | 0.8 | 1000          |
| NE8      | 1/2         | 12.7 | 0.204    | 5.2 | 0.375 | 9.5  | 0.65   | 16.5 | 1/32 | 0.8 | 1000          |
| NE9      | 9/16        | 14.3 | 0.204    | 5.2 | 0.375 | 9.5  | 0.75   | 19.1 | 1/32 | 0.8 | 1000          |
| NE10     | 5/8         | 15.9 | 0.204    | 5.2 | 0.375 | 9.5  | 0.78   | 19.8 | 1/32 | 0.8 | 1000          |
| NE11     | 11/16       | 17.5 | 0.204    | 5.2 | 0.500 | 12.7 | 0.81   | 20.6 | 1/16 | 1.6 | 500           |
| NE12     | 3/4         | 19.1 | 0.204    | 5.2 | 0.500 | 12.7 | 0.84   | 21.3 | 1/16 | 1.6 | 500           |
| NE14     | 7/8         | 22.2 | 0.204    | 5.2 | 0.500 | 12.7 | 0.90   | 22.9 | 1/16 | 1.6 | 500           |
| NE16     | 1           | 25.4 | 0.204    | 5.2 | 0.500 | 12.7 | 0.96   | 24.4 | 1/16 | 1.6 | 500           |
| NE18     | 1-1/8       | 28.6 | 0.204    | 5.2 | 0.500 | 12.7 | 1.05   | 26.7 | 1/16 | 1.6 | 500           |
| NE20     | 1-1/4       | 31.8 | 0.204    | 5.2 | 0.500 | 12.7 | 1.11   | 28.2 | 1/16 | 1.6 | 500           |

### AL Series

#### Aluminum Clamp



##### Specifications:

- Material: Aluminum Alloy 5052 H-32
- Color: Aluminum

##### Features:

- Corrosion resistant
- Protects and holds cable, wire, hoses and loom

| Item No. | Ø D Holding |      | Ø H Hole |     | W     |      | E Ref. |      | T    |     | Bulk Pack Qty |
|----------|-------------|------|----------|-----|-------|------|--------|------|------|-----|---------------|
|          | in          | mm   | in       | mm  | in    | mm   | in     | mm   | in   | mm  |               |
| AL2A     | 1/8         | 3.2  | 0.204    | 5.2 | 0.375 | 9.5  | 0.46   | 11.7 | 1/32 | 0.8 | 1000          |
| AL3A     | 3/16        | 4.8  | 0.204    | 5.2 | 0.375 | 9.5  | 0.50   | 12.7 | 1/32 | 0.8 | 1000          |
| AL4A     | 1/4         | 6.4  | 0.204    | 5.2 | 0.375 | 9.5  | 0.53   | 13.5 | 1/32 | 0.8 | 1000          |
| AL5A     | 5/16        | 7.9  | 0.204    | 5.2 | 0.375 | 9.5  | 0.56   | 14.2 | 1/32 | 0.8 | 1000          |
| AL6A     | 3/8         | 9.5  | 0.204    | 5.2 | 0.375 | 9.5  | 0.59   | 15.0 | 1/32 | 0.8 | 1000          |
| AL7A     | 7/16        | 11.1 | 0.204    | 5.2 | 0.375 | 9.5  | 0.62   | 15.7 | 1/32 | 0.8 | 1000          |
| AL8A     | 1/2         | 12.7 | 0.204    | 5.2 | 0.375 | 9.5  | 0.65   | 16.5 | 1/32 | 0.8 | 1000          |
| AL9A     | 9/16        | 14.3 | 0.204    | 5.2 | 0.375 | 9.5  | 0.75   | 19.1 | 1/32 | 0.8 | 1000          |
| AL10A    | 5/8         | 15.9 | 0.204    | 5.2 | 0.375 | 9.5  | 0.78   | 19.8 | 1/32 | 0.8 | 1000          |
| AL11     | 11/16       | 17.5 | 0.204    | 5.2 | 0.500 | 12.7 | 0.81   | 20.6 | 1/32 | 0.8 | 500           |
| AL12     | 3/4         | 19.1 | 0.204    | 5.2 | 0.500 | 12.7 | 0.84   | 21.3 | 1/32 | 0.8 | 500           |
| AL14     | 7/8         | 22.2 | 0.204    | 5.2 | 0.500 | 12.7 | 0.90   | 22.9 | 1/32 | 0.8 | 500           |
| AL16     | 1           | 25.4 | 0.204    | 5.2 | 0.500 | 12.7 | 0.96   | 24.4 | 1/16 | 1.6 | 500           |
| AL18     | 1-1/8       | 28.6 | 0.204    | 5.2 | 0.500 | 12.7 | 1.05   | 26.7 | 1/16 | 1.6 | 500           |
| AL20     | 1-1/4       | 31.8 | 0.204    | 5.2 | 0.500 | 12.7 | 1.11   | 28.2 | 1/16 | 1.6 | 500           |



WHC Series  
Wire Harness Clamp

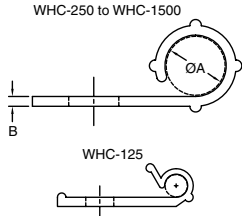
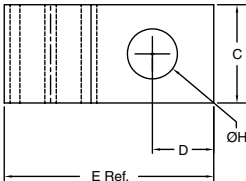


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Can be preinstalled to chassis with cables inserted at a later time
- Cables can be removed for wiring changes or replacements



| Item No.    |               |          | Ø A Holding |      | Ø H Hole |     | C     |      | B     |     | D    |     | E Ref. |      | Bulk Pack Qty |
|-------------|---------------|----------|-------------|------|----------|-----|-------|------|-------|-----|------|-----|--------|------|---------------|
| Natural     | Black         | Approval | in          | mm   | in       | mm  | in    | mm   | in    | mm  | in   | mm  | in     | mm   |               |
| WHC-125-01  | WHC-125-01BK  |          | 0.125       | 3.2  | 0.156    | 4.0 | 0.330 | 8.4  | 0.050 | 1.3 | 0.23 | 5.8 | 0.750  | 19.1 | 1000          |
| WHC-250-01  | WHC-250-01BK  |          | 0.250       | 6.4  | 0.204    | 5.2 | 0.400 | 10.2 | 0.040 | 1.0 | 0.25 | 6.4 | 0.830  | 21.1 | 1000          |
| WHC-375-01  | WHC-375-01BK  |          | 0.375       | 9.5  | 0.204    | 5.2 | 0.400 | 10.2 | 0.050 | 1.3 | 0.19 | 4.8 | 0.830  | 21.1 | 1000          |
| WHC-500-01  | WHC-500-01BK  |          | 0.500       | 12.7 | 0.204    | 5.2 | 0.400 | 10.2 | 0.070 | 1.8 | 0.25 | 6.4 | 1.156  | 29.4 | 1000          |
| WHC-625-01  | WHC-625-01BK  |          | 0.625       | 15.9 | 0.204    | 5.2 | 0.500 | 12.7 | 0.080 | 2.0 | 0.19 | 4.8 | 1.125  | 28.6 | 1000          |
| WHC-750-01  | WHC-750-01BK  |          | 0.750       | 19.1 | 0.204    | 5.2 | 0.500 | 12.7 | 0.090 | 2.2 | 0.19 | 4.8 | 1.281  | 32.5 | 1000          |
| WHC-1000-01 | WHC-1000-01BK |          | 1.000       | 25.4 | 0.204    | 5.2 | 0.500 | 12.7 | 0.090 | 2.2 | 0.19 | 4.8 | 1.531  | 38.9 | 500           |
| WHC-1500-01 | WHC-1500-01BK |          | 1.500       | 38.1 | 0.204    | 5.2 | 0.500 | 12.7 | 0.100 | 2.5 | 0.19 | 4.8 | 2.125  | 53.9 | 500           |

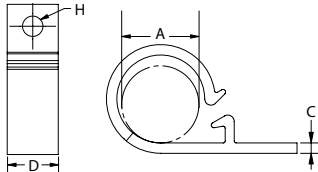
EXWHC Series  
Wire Harness Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

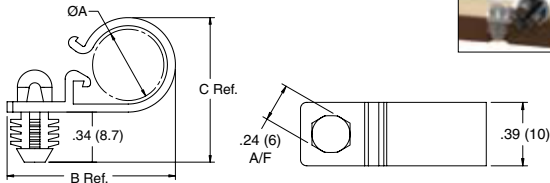
- Cables are easily inserted into clamp and locked in place
- Cables can be removed for wiring change or replacements



\* No latch feature

| Item No.       | Ø A Holding |      | Ø H Hole |     | C     |     | D Ref. |      | Bulk Pack Qty |
|----------------|-------------|------|----------|-----|-------|-----|--------|------|---------------|
|                | in          | mm   | in       | mm  | in    | mm  | in     | mm   |               |
| EXWHC2-250-01* | 0.250       | 6.4  | 0.156    | 4.0 | 0.039 | 1.0 | 0.394  | 10.0 | 1000          |
| EXWHC2-500-01  | 0.500       | 12.7 | 0.156    | 4.0 | 0.075 | 1.9 | 0.394  | 10.0 | 1000          |
| EXWHC2-750-01  | 0.708       | 18.0 | 0.156    | 4.0 | 0.075 | 1.9 | 0.500  | 12.7 | 1000          |

BHLWHC Series  
Blind Hole Mounted Clamp



Specifications:

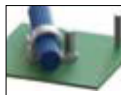
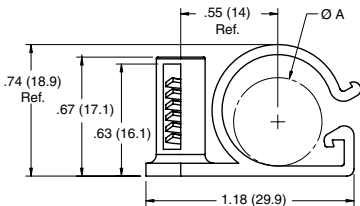
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Easily pushed into mounting hole using a standard 6mm hexagonal socket pressed onto mounting head
- Releasable and reusable for easy wire bundling

| Item No.      | Ø A Holding |      | Ø Mounting Hole |     | B Ref. |      | C Ref. |      | Panel Thickness |     | Bulk Pack Qty |
|---------------|-------------|------|-----------------|-----|--------|------|--------|------|-----------------|-----|---------------|
|               | in          | mm   | in              | mm  | in     | mm   | in     | mm   | in              | mm  |               |
| BHLWHC-500-01 | 0.500       | 12.7 | 0.312           | 7.9 | 1.150  | 29.3 | 1.000  | 25.4 | 0.250           | 6.4 | 1000          |
| BHLWHC-750-01 | 0.750       | 19.1 | 0.312           | 7.9 | 1.440  | 36.5 | 1.340  | 34.1 | 0.250           | 6.4 | 1000          |

SMWHC Series  
Stud Mount Wire Harness Clip



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Installed by pushing clamp onto an exposed screw or stud
- No protrusion under the chassis
- Fits several different threads; M4, M5, #8, or #10

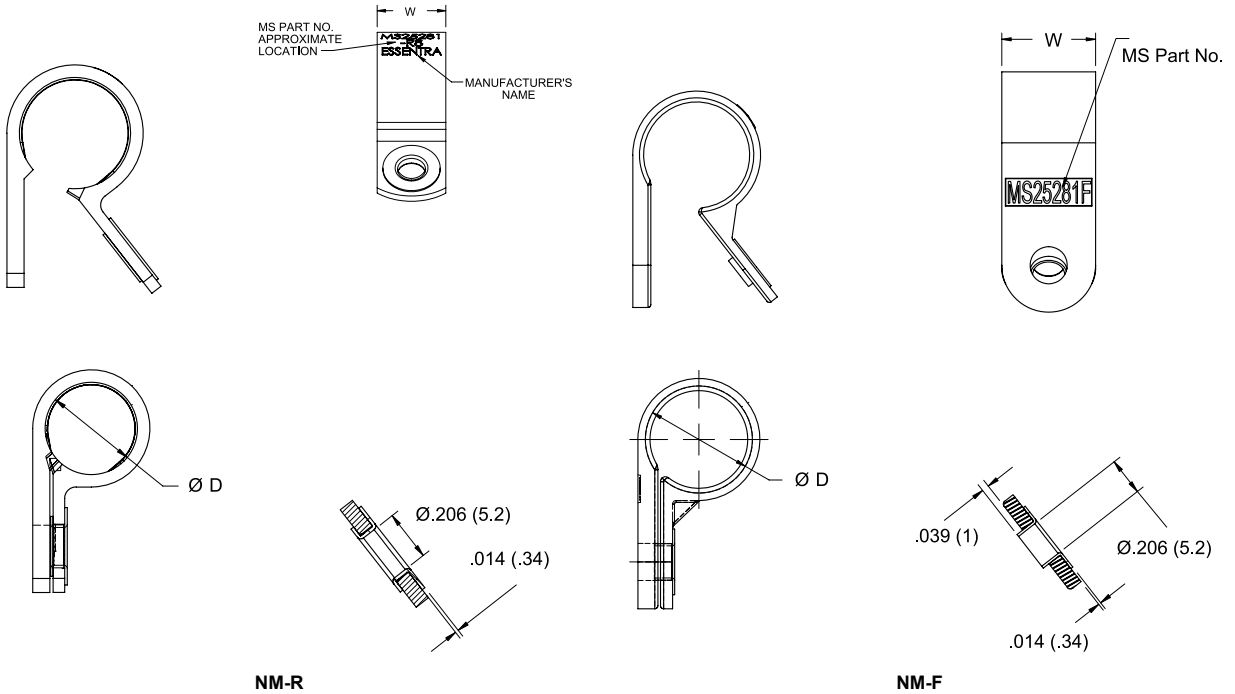
| Item No.     | Ø A Holding |      | Mounting Method                             | Bulk Pack Qty |
|--------------|-------------|------|---------------------------------------------|---------------|
|              | in          | mm   |                                             |               |
| SMWHC-500-01 | 0.500       | 12.7 | Push onto a #8, #10, M4 or M5 Screw or Stud | 500           |

**CABLE CLAMPS****NM-MS25281 Series  
Heavy Duty Support Clamp****Specifications:**

- Material: UL94 V-2 Heat Stabilized Nylon, conforms to MIL-M-20693/ASTM D-4066 Eyelet: Aluminum, anodized in accordance with MIL-A-8625
- Color: Green

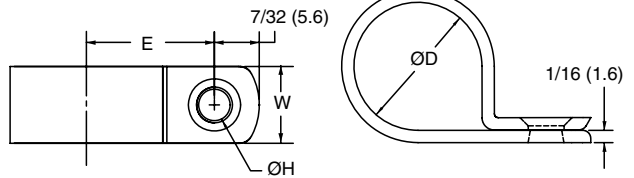
**Features:**

- Qualified to MS25281
- Strong and durable part design built for heavy duty cable applications
- NM-R series has a rib running around the inside of the clamp to grip bundle; NM-F series has no rib inside clamp
- NM-R eyelet is crimped to the top leg; the NM-F eyelet's legs protrude all the way through the bottom hole

**NM-R****NM-F**

| Item No.  | MS Part Number | Ø D Holding |      | Recommended Mounting Screw | W     |      | E     |      | Bulk Pack Qty |
|-----------|----------------|-------------|------|----------------------------|-------|------|-------|------|---------------|
|           |                | in          | mm   |                            | in    | mm   | in    | mm   |               |
| NM-3-R3   | MS25281-R3     | 3/16        | 4.8  | #10 or M5                  | 0.503 | 12.8 | 0.485 | 12.3 | 500           |
| NM-4-R4   | MS25281-R4     | 1/4         | 6.4  | #10 or M5                  | 0.503 | 12.8 | 0.510 | 13.0 | 500           |
| NM-5-R5   | MS25281-R5     | 5/16        | 7.9  | #10 or M5                  | 0.503 | 12.8 | 0.546 | 13.9 | 500           |
| NM-6-R6   | MS25281-R6     | 3/8         | 9.5  | #10 or M5                  | 0.503 | 12.8 | 0.578 | 14.7 | 500           |
| NM-7-R7   | MS25281-R7     | 7/16        | 11.1 | #10 or M5                  | 0.503 | 12.8 | 0.608 | 15.4 | 500           |
| NM-8-R8   | MS25281-R8     | 1/2         | 12.7 | #10 or M5                  | 0.503 | 12.8 | 0.639 | 16.2 | 500           |
| NM-9-R9   | MS25281-R9     | 9/16        | 14.3 | #10 or M5                  | 0.503 | 12.8 | 0.661 | 16.8 | 500           |
| NM-10-R10 | MS25281-R10    | 5/8         | 15.9 | #10 or M5                  | 0.553 | 14.1 | 0.706 | 17.9 | 500           |
| NM-11-R11 | MS25281-R11    | 11/16       | 17.5 | #10 or M5                  | 0.553 | 14.1 | 0.785 | 19.9 | 500           |
| NM-12-R12 | MS25281-R12    | 3/4         | 19.1 | #10 or M5                  | 0.553 | 14.1 | 0.816 | 20.7 | 500           |
| NM-13-R13 | MS25281-R13    | 13/16       | 20.6 | #10 or M5                  | 0.553 | 14.1 | 0.827 | 21.0 | 500           |
| NM-14-R14 | MS25281-R14    | 7/8         | 22.2 | #10 or M5                  | 0.553 | 14.1 | 0.878 | 22.3 | 500           |
| NM-16-R16 | MS25281-R16    | 1           | 25.4 | #10 or M5                  | 0.553 | 14.1 | 0.941 | 23.9 | 500           |
| NM-18-R18 | MS25281-R18    | 1-1/8       | 28.6 | #10 or M5                  | 0.553 | 14.1 | 0.983 | 25.0 | 500           |
| NM-20-R20 | MS25281-R20    | 1-1/4       | 31.8 | #10 or M5                  | 0.553 | 14.1 | 1.006 | 27.1 | 100           |
| NM-22-R22 | MS25281-R22    | 1-3/8       | 34.9 | #10 or M5                  | 0.553 | 14.1 | 1.110 | 28.2 | 100           |
| NM-24-R24 | MS25281-R24    | 1-1/2       | 38.1 | #10 or M5                  | 0.553 | 14.1 | 1.170 | 29.7 | 100           |
| NM-26-R26 | MS25281-R26    | 1-5/8       | 41.3 | #10 or M5                  | 0.553 | 14.1 | 1.250 | 31.8 | 100           |
| NM-28-R28 | MS25281-R28    | 1-3/4       | 44.5 | #10 or M5                  | 0.553 | 14.1 | 1.300 | 33.0 | 100           |
| NM-3-F3   | MS25281-F3     | 3/16        | 4.8  | #10 or M5                  | 0.500 | 12.7 | 0.498 | 12.6 | 500           |
| NM-4-F4   | MS25281-F4     | 1/4         | 6.4  | #10 or M5                  | 0.500 | 12.7 | 0.529 | 13.4 | 500           |
| NM-5-F5   | MS25281-F5     | 5/16        | 7.9  | #10 or M5                  | 0.500 | 12.7 | 0.560 | 14.2 | 500           |
| NM-6-F6   | MS25281-F6     | 3/8         | 9.5  | #10 or M5                  | 0.500 | 12.7 | 0.592 | 15.0 | 500           |
| NM-7-F7   | MS25281-F7     | 7/16        | 11.1 | #10 or M5                  | 0.500 | 12.7 | 0.623 | 15.8 | 500           |
| NM-8-F8   | MS25281-F8     | 1/2         | 12.7 | #10 or M5                  | 0.500 | 12.7 | 0.654 | 16.6 | 500           |
| NM-10-F10 | MS25281-F10    | 5/8         | 15.9 | #10 or M5                  | 0.600 | 15.2 | 0.783 | 19.9 | 500           |
| NM-13-F13 | MS25281-F13    | 13/16       | 20.6 | #10 or M5                  | 0.600 | 15.2 | 0.877 | 22.3 | 500           |

## CABLE CLAMPS

N/NB/CCL Series  
Cable Clamp

## Specifications:

- Material: Nylon 6/6
- Color: See Table

## Features:

- Designed to secure wires and cables in place
- Clamp down and screw clamp to chassis to secure

| Item No.         |                |                  | Ø D Holding |      | Ø H Hole |     | W     |      | E Ref. |      | Bulk Pack Qty |
|------------------|----------------|------------------|-------------|------|----------|-----|-------|------|--------|------|---------------|
| Natural UL94 V-2 | Black UL94 V-2 | Natural UL94 V-0 | in          | mm   | in       | mm  | in    | mm   | in     | mm   |               |
| N-1              | N-1-BK         | N-1-19           | 0.063       | 1.6  | 0.125    | 3.2 | 0.375 | 9.5  | 0.270  | 6.9  | 1000          |
| N-2              | N-2-BK         | N-2-19           | 0.125       | 3.2  | 0.172    | 4.4 | 0.375 | 9.5  | 0.328  | 8.3  | 1000          |
| CCL001A          | —              | —                | 0.125       | 3.2  | 0.188    | 4.8 | 0.377 | 9.6  | 0.374  | 9.5  | 100           |
| N-2B             | N-2B-BK        | N-2B-19          | 0.125       | 3.2  | 0.204    | 5.2 | 0.500 | 12.7 | 0.328  | 8.3  | 1000          |
| N-3              | N-3-BK         | N-3-19           | 0.188       | 4.7  | 0.172    | 4.4 | 0.375 | 9.5  | 0.391  | 9.9  | 1000          |
| CCL002A          | —              | —                | 0.188       | 4.7  | 0.188    | 4.7 | 0.377 | 9.6  | 0.413  | 10.5 | 100           |
| N-3B             | N-3B-BK        | N-3B-19          | 0.188       | 4.7  | 0.204    | 5.2 | 0.500 | 12.7 | 0.391  | 9.9  | 1000          |
| N-4              | N-4-BK         | N-4-19           | 0.250       | 6.4  | 0.172    | 4.4 | 0.375 | 9.5  | 0.422  | 10.7 | 1000          |
| CCL003A          | —              | —                | 0.250       | 6.4  | 0.181    | 4.6 | 0.393 | 10.0 | 0.394  | 10.0 | 100           |
| N-4B             | N-4B-BK        | N-4B-19          | 0.250       | 6.4  | 0.204    | 5.2 | 0.500 | 12.7 | 0.422  | 10.7 | 1000          |
| N-5              | N-5-BK         | N-5-19           | 0.313       | 7.9  | 0.172    | 4.4 | 0.375 | 9.5  | 0.453  | 11.5 | 1000          |
| CCL004A          | —              | —                | 0.313       | 7.9  | 0.181    | 4.6 | 0.393 | 10.0 | 0.472  | 12.0 | 100           |
| N-5B             | N-5B-BK        | N-5B-19          | 0.313       | 7.9  | 0.204    | 5.2 | 0.500 | 12.7 | 0.453  | 11.5 | 1000          |
| N-6              | N-6-BK         | N-6-19           | 0.375       | 9.5  | 0.172    | 4.4 | 0.375 | 9.5  | 0.484  | 12.3 | 1000          |
| CCL005A          | —              | —                | 0.375       | 9.5  | 0.181    | 4.6 | 0.472 | 12.0 | 0.492  | 12.5 | 100           |
| N-6B             | N-6B-BK        | N-6B-19          | 0.375       | 9.5  | 0.204    | 5.2 | 0.500 | 12.7 | 0.484  | 12.3 | 1000          |
| N-7              | N-7-BK         | N-7-19           | 0.438       | 11.1 | 0.172    | 4.4 | 0.375 | 9.5  | 0.531  | 13.5 | 1000          |
| N-7B             | N-7B-BK        | N-7B-19          | 0.438       | 11.1 | 0.204    | 5.2 | 0.500 | 12.7 | 0.531  | 13.5 | 1000          |
| N-8              | N-8-BK         | N-8-19           | 0.500       | 12.7 | 0.172    | 4.4 | 0.375 | 9.5  | 0.563  | 14.3 | 1000          |
| CCL006A          | —              | —                | 0.500       | 12.7 | 0.196    | 5.0 | 0.472 | 12.0 | 0.598  | 15.2 | 100           |
| N-8B             | N-8B-BK        | N-8B-19          | 0.500       | 12.7 | 0.204    | 5.2 | 0.500 | 12.7 | 0.563  | 14.3 | 1000          |
| N-9B             | N-9B-BK        | N-9B-19          | 0.563       | 14.3 | 0.204    | 5.2 | 0.500 | 12.7 | 0.594  | 15.0 | 1000          |
| CCL007A          | —              | —                | 0.625       | 15.9 | 0.181    | 4.6 | 0.472 | 12.0 | 0.717  | 18.8 | 100           |
| N-10B            | N-10B-BK       | N-10B-19         | 0.625       | 15.9 | 0.204    | 5.2 | 0.500 | 12.7 | 0.625  | 15.9 | 1000          |
| N-11B            | N-11B-BK       | N-11B-19         | 0.688       | 17.5 | 0.204    | 5.2 | 0.500 | 12.7 | 0.656  | 16.7 | 1000          |
| CCL008A          | —              | —                | 0.750       | 19.1 | 0.181    | 4.6 | 0.463 | 11.8 | 0.717  | 18.8 | 100           |
| N-12B            | N-12B-BK       | N-12B-19         | 0.750       | 19.1 | 0.204    | 5.2 | 0.500 | 12.7 | 0.766  | 19.4 | 1000          |
| N-14B            | N-14B-BK       | N-14B-19         | 0.875       | 22.2 | 0.204    | 5.2 | 0.500 | 12.7 | 0.813  | 20.6 | 500           |
| CCL009A          | —              | —                | 1.000       | 25.4 | 0.181    | 4.6 | 0.472 | 12.0 | 0.866  | 22.0 | 100           |
| N-16B            | N-16B-BK       | N-16B-19         | 1.000       | 25.4 | 0.204    | 5.2 | 0.500 | 12.7 | 0.906  | 23.0 | 500           |
| CCL010A          | —              | —                | 1.062       | 27.0 | 0.181    | 4.6 | 0.472 | 12.0 | 0.945  | 24.0 | 100           |
| N-18B            | N-18B-BK       | N-18B-19         | 1.125       | 28.6 | 0.204    | 5.2 | 0.500 | 12.7 | 0.969  | 24.6 | 500           |
| CCL011A          | —              | —                | 1.250       | 31.8 | 0.181    | 4.6 | 0.472 | 12.0 | 1.031  | 26.2 | 100           |
| CCL012A          | —              | —                | 1.446       | 36.7 | 0.181    | 4.6 | 0.472 | 12.0 | 1.181  | 30.0 | 100           |

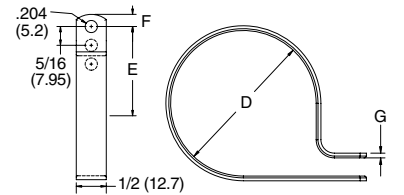
NB-3 Series  
Adjustable Cable Clamp

## Specifications:

- Material: See Table
- Color: See Table

## Features:

- Adjustable design allows you to bundle multiple diameters of wires and cables while securing in place



| Item No.           |                    |          | Ø D Holding |      |             |      |              |      | E Ref. |      | F     |     | G     |     | Bulk Pack Qty |
|--------------------|--------------------|----------|-------------|------|-------------|------|--------------|------|--------|------|-------|-----|-------|-----|---------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 |          | Inside Hole |      | Center Hole |      | Outside Hole |      | in     | mm   | in    | mm  | in    | mm  |               |
| Natural            | Black              | Natural  | in          | mm   | in          | mm   | in           | mm   | in     | mm   | in    | mm  | in    | mm  |               |
| N-20B              | N-20B-BK           | N-20B-19 | 1           | 25.4 | 1-1/8       | 28.6 | 1.2          | 30.2 | 0.906  | 23.0 | 0.219 | 5.6 | 0.063 | 1.6 | 500           |
| N-24B              | N-24B-BK           | N-24B-19 | 1-1/4       | 31.8 | 1-3/8       | 34.9 | 1.47         | 37.3 | 1.031  | 26.2 | 0.219 | 5.6 | 0.063 | 1.6 | 500           |
| N-32B              | N-32B-BK           | N-32B-19 | 1-3/4       | 44.5 | 1-7/8       | 47.6 | 2.0          | 50.8 | 1.453  | 36.9 | 0.203 | 5.2 | 0.065 | 1.7 | 500           |

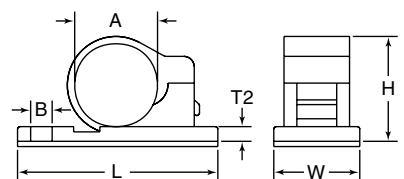
CCA Series  
Adhesive Mount Cable Clamps

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

## Features:

- Fixed diameter clamp range
- Can be mounted with adhesive tape backing or via screw mounting hole



| Item No. | Ø A Holding |      | Ø B Hole |     | T2    |     | L    |      | W    |      | H    |      | Bulk Pack Qty |
|----------|-------------|------|----------|-----|-------|-----|------|------|------|------|------|------|---------------|
|          | in          | mm   | in       | mm  | in    | mm  | in   | mm   | in   | mm   | in   | mm   |               |
| CCA001A  | 0.22        | 5.5  | 0.197    | 5.0 | 0.118 | 3.0 | 1.02 | 25.8 | 0.53 | 13.4 | 0.48 | 12.2 | 100           |
| CCA002A  | 0.30        | 7.5  | 0.197    | 5.0 | 0.126 | 3.2 | 1.13 | 28.8 | 0.53 | 13.4 | 0.57 | 14.5 | 100           |
| CCA003A  | 0.47        | 12.0 | 0.209    | 5.3 | 0.118 | 3.0 | 1.37 | 34.8 | 0.65 | 16.5 | 0.73 | 18.5 | 100           |
| CCA004A  | 0.55        | 14.0 | 0.197    | 5.0 | 0.126 | 3.2 | 1.44 | 36.5 | 0.65 | 16.4 | 0.77 | 19.5 | 100           |
| CCA005A  | 0.59        | 15.0 | 0.197    | 5.0 | 0.106 | 2.7 | 1.50 | 38.2 | 0.63 | 16.0 | 0.80 | 20.3 | 100           |
| CCA006A  | 0.67        | 17.0 | 0.189    | 4.8 | 0.122 | 3.1 | 1.63 | 41.3 | 0.61 | 15.6 | 0.98 | 25.0 | 100           |



## CABLE CLAMPS

## AKKL Series

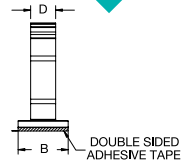
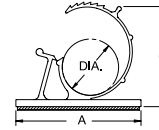
## Adhesive Mount Adjustable Clamp

## Specifications:

- Material: Nylon 6/6
- Color: Natural

## Features:

- Available in High Bond Rubber Adhesive
- Locks securely and easily, reopens for routing changes
- Ratcheting clip holds bundle securely in place
- Good for high vibration applications; once closed the clip will not open until tab is released



| Item No.         |                  | High Bond Rubber Adhesive | Ø E Bundle Range Ref. |             | A    |      | B    |      | C Ref. |      | D    |      | Bulk Pack Qty |
|------------------|------------------|---------------------------|-----------------------|-------------|------|------|------|------|--------|------|------|------|---------------|
| Acrylic Adhesive | Acrylic Adhesive |                           |                       |             |      |      |      |      |        |      |      |      |               |
| UL94 V-2         | UL94 V-0         |                           | UL94 V-2              | in          | mm   | in   | mm   | in   | mm     | in   | mm   | in   |               |
| AKKL-2140A-RT    | AKKL-2140A-19    | —                         | 0.215 - 0.258         | 5.5 - 6.5   | 0.85 | 21.6 | 0.65 | 16.5 | 0.708  | 18   | 0.39 | 10.0 | 100           |
| AKKL-3140A-RT    | AKKL-3140A-19    | • AKKL-3140-DHB           | 0.312 - 0.406         | 7.9 - 10.3  | 1.00 | 25.4 | 0.75 | 19.1 | 0.866  | 22   | 0.40 | 10.2 | 100           |
| AKKL-4756A-RT    | AKKL-4756A-19    | • AKKL-4756-DHB           | 0.469 - 0.562         | 11.9 - 14.3 | 1.25 | 31.8 | 0.75 | 19.1 | 1.090  | 27.7 | 0.40 | 10.2 | 100           |
| AKKL-5775A-RT    | AKKL-5775A-19    | • AKKL-5775-DHB           | 0.578 - 0.750         | 14.7 - 19.1 | 1.50 | 38.1 | 0.75 | 19.1 | 1.250  | 31.8 | 0.50 | 12.7 | 100           |
| AKKL-8710A-RT    | AKKL-8710A-19    | —                         | 0.875 - 1.000         | 22.2 - 25.4 | 2.00 | 50.8 | 1.00 | 25.4 | 1.750  | 44.5 | 0.50 | 12.7 | 100           |
| AKKL-10112A-RT   | AKKL-10112A-19   | —                         | 1.000 - 1.250         | 25.4 - 31.7 | 2.50 | 63.5 | 1.00 | 25.4 | 2.000  | 50.8 | 0.50 | 12.7 | 100           |

## AKKSL Series

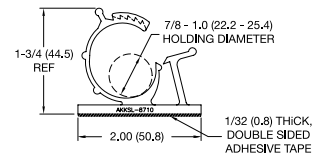
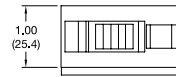
## Side Lock Adhesive Mount Adjustable Clamp

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Side locks on top of clamp prevent clip from sliding open
- Ratcheting clip holds bundle securely in place



| Item No.       | Approval | Bulk Pack Qty |
|----------------|----------|---------------|
| AKKSL-8710A-RT |          | 100           |

## PAKKL Series

## Snap In Adjustable Clip

## Specifications:

- Material: Nylon 6/6
- Color: Natural

## Features:

- Gathers and routes cables and wires
- Adjusts to diameter needed to bundle
- Push mount design allows for fast installation

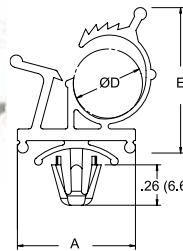


Figure 1

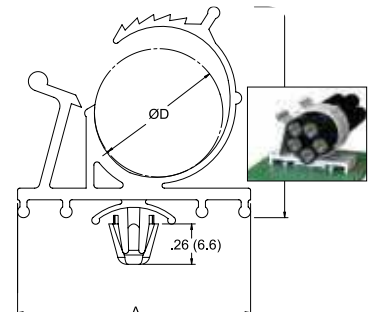


Figure 2

| Item No.      |               | Figure | D Ø Bundle Range |             | Ø Mounting Hole |     | Panel Thickness |           | A    |      | E Ref. |      | Depth |      | Bulk Pack Qty |
|---------------|---------------|--------|------------------|-------------|-----------------|-----|-----------------|-----------|------|------|--------|------|-------|------|---------------|
| UL94 V-2      | UL94 V-0      |        | in               | mm          | in              | mm  | in              | mm        | in   | mm   | in     | mm   | in    | mm   |               |
| PAKKL-3140-01 | PAKKL-3140-19 | 1      | 0.310 - 0.400    | 7.9 - 10.2  | 0.250           | 6.4 | 0.030 - 0.060   | 0.8 - 1.5 | 0.75 | 19.1 | 0.94   | 23.8 | 0.350 | 8.9  | 100           |
| PAKKL-4756-01 | PAKKL-4756-19 | 1      | 0.469 - 0.563    | 11.9 - 14.3 | 0.250           | 6.4 | 0.030 - 0.060   | 0.8 - 1.5 | 1.24 | 31.5 | 1.17   | 29.8 | 0.620 | 15.7 | 100           |
| PAKKL-5775-01 | PAKKL-5775-19 | 2      | 0.578 - 0.750    | 14.7 - 19.1 | 0.250           | 6.4 | 0.030 - 0.060   | 0.8 - 1.5 | 1.50 | 38.1 | 1.36   | 34.5 | 0.750 | 19.1 | 100           |

## PKKL Series

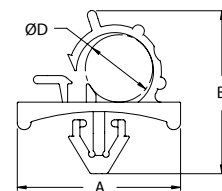
## Plug In Locking Clamp

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Part can be opened and closed multiple times for adding or removing wires
- Large contoured base assures stable mounting



| Item No. | A     |      | B     |      | Ø D Holding |      | Ø Mounting Hole |     | Panel Thickness |           | Depth |      | Bulk Pack Qty |
|----------|-------|------|-------|------|-------------|------|-----------------|-----|-----------------|-----------|-------|------|---------------|
|          | in    | mm   | in    | mm   | in          | mm   | in              | mm  | in              | mm        | in    | mm   |               |
| PKKL-3   | 1.020 | 25.9 | 0.921 | 23.4 | 0.374       | 9.5  | 0.256           | 6.5 | 0.031 - 0.062   | 0.8 - 1.6 | 0.67  | 17.0 | 200           |
| PKKL-3S  | 0.830 | 21.1 | 0.828 | 21.0 | 0.307       | 7.8  | 0.256           | 6.5 | 0.031 - 0.062   | 0.8 - 1.6 | 0.75  | 19.1 | 200           |
| PKKL-4   | 1.19  | 30.3 | 1.260 | 32.0 | 0.532       | 13.5 | 0.256           | 6.5 | 0.031 - 0.062   | 0.8 - 1.6 | 0.76  | 19.4 | 100           |



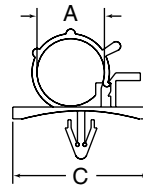
### CCP/CCA Series Push Mount & Adhesive Clamp

#### Specifications:

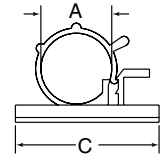
- Material: UL94 V-2 Nylon 6/6
- Color: Grey

#### Features:

- Two-stage lock design to accommodate different cable sizes in a single clamp
- Easy to reopen with thumb tab release
- Available in two styles: CCP for push mount into pre-drilled hole and CCA with a self adhesive backing



CCP Push Mount



CCA Adhesive

| Item No. |         | Ø A Bundle Range |             | Ø Mounting Hole |     | Panel Thickness |           | B     |      | C     |      | Bulk Pack Qty |
|----------|---------|------------------|-------------|-----------------|-----|-----------------|-----------|-------|------|-------|------|---------------|
|          |         | in               | mm          | in              | mm  | in              | mm        | in    | mm   | in    | mm   |               |
| CCP001A  | CCA007A | 0.230 - 0.280    | 6.0 - 7.0   | 0.189           | 4.8 | 0.070 - 0.110   | 1.8 - 2.8 | 0.787 | 20.0 | 0.984 | 25.0 | 100           |
| CCP002A  | CCA008A | 0.280 - 0.310    | 7.0 - 8.0   | 0.189           | 4.8 | 0.070 - 0.110   | 1.8 - 2.8 | 0.787 | 20.0 | 0.984 | 25.0 | 100           |
| CCP003A  | CCA009A | 0.350 - 0.390    | 9.0 - 10.0  | 0.189           | 4.8 | 0.070 - 0.110   | 1.8 - 2.8 | 0.965 | 24.5 | 1.181 | 30.0 | 100           |
| CCP004A  | CCA010A | 0.470 - 0.550    | 12.0 - 14.0 | 0.189           | 4.8 | 0.070 - 0.110   | 1.8 - 2.8 | 0.965 | 24.5 | 1.181 | 30.0 | 100           |
| CCP005A  | CCA011A | 0.620 - 0.710    | 16.0 - 18.0 | 0.189           | 4.8 | 0.070 - 0.110   | 1.8 - 2.8 | 0.965 | 24.5 | 1.181 | 30.0 | 100           |

### WAC Series Webbed Adjustable Clip

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Locks securely and easily; reopens for routing changes
- Adjustable, ratcheting clip holds bundle securely in place
- Spring in the top of the clamp adds additional tension to grip the bundle
- Finger grip eases installation
- Cupped base adds stability to the mounting and covers the hole completely

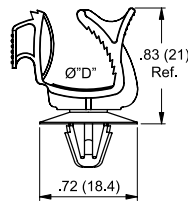


Figure 1

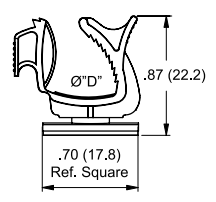


Figure 2



| Item No.     | D Ø Bundle Range |           | Ø Mounting Hole |           | Panel Thickness |           | Figure | Bulk Pack Qty |
|--------------|------------------|-----------|-----------------|-----------|-----------------|-----------|--------|---------------|
|              | in               | mm        | in              | mm        | in              | mm        |        |               |
| WAC1-01      | 0.12 - 0.34      | 3.0 - 8.5 | 0.157 - 0.189   | 4.0 - 4.8 | 0.019 - 0.063   | 0.5 - 1.6 | 1      | 1000          |
| WAC2-01      | 0.12 - 0.34      | 3.0 - 8.5 | 0.236 - 0.267   | 6.0 - 6.8 | 0.019 - 0.098   | 0.5 - 2.5 | 1      | 1000          |
| WAC3-01A4-RT | 0.12 - 0.34      | 3.0 - 8.5 | Adhesive        | Adhesive  | Adhesive        | Adhesive  | 2      | 1000          |

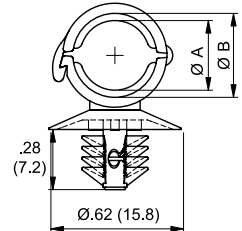
### HLCC Series Hinged Locking Clamp

#### Specifications:

- Material: Heat Stabilized UL94 V-2 Nylon 6/6
- Color: Black

#### Features:

- Securely holds corrugated/convoluted tubing or other bundles
- An internal rib spanning the diameter of the clamp provides a tight grip
- Releasable latch convenient for maintenance
- Fir-tree mount accommodates a large range of panel thicknesses

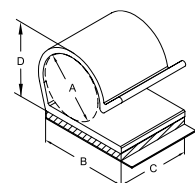
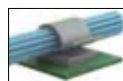


| Item No. | Recommended Corrugated Tube Size |     |      |     | Ø Mounting Hole |           | Panel Thickness |           | Ø A Ref. |     | Ø B Ref. |      | Bulk Pack Qty |
|----------|----------------------------------|-----|------|-----|-----------------|-----------|-----------------|-----------|----------|-----|----------|------|---------------|
|          | ID                               |     | OD   |     |                 |           |                 |           |          |     |          |      |               |
|          | in                               | mm  | in   | mm  | in              | mm        | in              | mm        | in       | mm  |          |      |               |
| HLCC-1BK | 0.20                             | 5.0 | 0.28 | 7.1 | 0.26 - 0.28     | 6.5 - 7.0 | 0.03 - 0.12     | .08 - 3.0 | 0.23     | 5.8 | 0.28     | 7.2  | 1000          |
| HLCC-2BK | 0.27                             | 6.9 | 0.39 | 9.9 | 0.26 - 0.28     | 6.5 - 7.0 | 0.03 - 0.12     | .08 - 3.0 | 0.33     | 8.3 | 0.39     | 10.0 | 1000          |

### KKR Series Adhesive Mount Clamp

#### Specifications:

- Material: UL94 V-0 PVC
- Color: Grey



| Item No.   | Ø A Bundle |      | Max Capacity D |      | B     |      | C     |      | Bulk Pack Qty |
|------------|------------|------|----------------|------|-------|------|-------|------|---------------|
|            | in         | mm   | in             | mm   | in    | mm   | in    | mm   |               |
| KKR-5A1-RT | 0.521      | 13.2 | 0.680          | 17.3 | 0.750 | 19.1 | 0.625 | 15.9 | 500           |

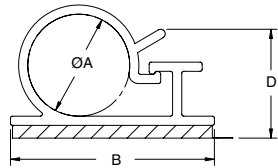


CABLE CLAMPS

KKL Series  
Adhesive Mount Locking Clamp

- Specifications:
- Material: UL94 V-0 PVC
  - Color: Grey

- Features:
- Gathers, routes, and locks cables and wires
  - Can be opened and closed multiple times for addition or removal of cables



| Item No.  | A Bundle |      | B     |      | Depth |      | D at Max Bundle Ref. |      | Bulk Pack Qty |
|-----------|----------|------|-------|------|-------|------|----------------------|------|---------------|
|           | in       | mm   | in    | mm   | in    | mm   | in                   | mm   |               |
| KKL-4-RT  | 1/4      | 6.4  | 0.750 | 19.1 | 0.750 | 19.1 | 0.38                 | 9.6  | 500           |
| KKL-8-RT  | 1/2      | 12.7 | 1.000 | 25.4 | 1.000 | 25.4 | 0.69                 | 17.4 | 100           |
| KKL-12-RT | 3/4      | 19.1 | 1.000 | 25.4 | 1.000 | 25.4 | 0.92                 | 23.5 | 100           |

KKD/KKDL Series  
Adhesive Mount Clamp

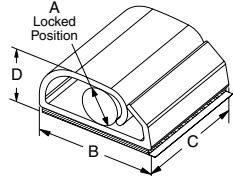
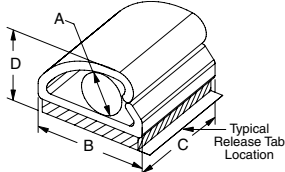


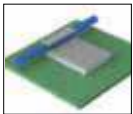
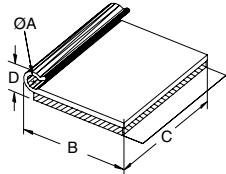
Figure 1

Figure 2

| Item No.  | Figure | Ø A Bundle |      | B    |      | C     |      | D at Max Bundle Ref. |      | Bulk Pack Qty |
|-----------|--------|------------|------|------|------|-------|------|----------------------|------|---------------|
|           |        | in         | mm   | in   | mm   | in    | mm   | in                   | mm   |               |
| KKDL-4-RT | 2      | 0.125      | 3.2  | 0.50 | 12.7 | 0.500 | 12.7 | 0.28                 | 7.1  | 500           |
| KKDL-8-RT | 2      | 0.219      | 5.6  | 0.75 | 19.1 | 0.750 | 19.1 | 0.43                 | 10.9 | 100           |
| KKD-4-RT  | 1      | 0.250      | 6.4  | 0.50 | 12.7 | 0.500 | 12.7 | 0.40                 | 10.2 | 500           |
| KKD-8-RT  | 1      | 0.500      | 12.7 | 0.75 | 19.1 | 0.750 | 19.1 | 0.73                 | 18.5 | 100           |
| KKD-12-RT | 1      | 0.750      | 19.1 | 1.13 | 28.6 | 1.000 | 25.4 | 1.02                 | 25.9 | 100           |
| KKD-16-RT | 1      | 1.000      | 25.4 | 1.50 | 38.1 | 1.250 | 31.8 | 1.30                 | 33.0 | 100           |

- Specifications:
- Material: UL94 V-0 PVC
  - Color: Grey

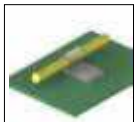
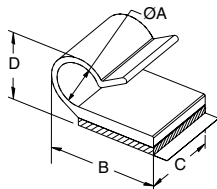
KKJ Series  
Adhesive Mount Clamp



| Item No. | Ø A Bundle |     | B     |      | C    |      | D at Max Bundle Ref. |      | Bulk Pack Qty |
|----------|------------|-----|-------|------|------|------|----------------------|------|---------------|
|          | in         | mm  | in    | mm   | in   | mm   | in                   | mm   |               |
| KKJ-2-RT | 1/8        | 3.2 | 0.843 | 21.4 | 1.00 | 25.4 | 1/4                  | 6.4  | 1000          |
| KKJ-3-RT | 3/16       | 4.8 | 0.875 | 22.2 | 1.25 | 31.8 | 5/16                 | 7.9  | 1000          |
| KKJ-4-RT | 1/4        | 6.4 | 0.906 | 23.0 | 1.50 | 38.1 | 13/32                | 10.3 | 1000          |
| KKJ-5-RT | 5/16       | 7.9 | 1.219 | 31.0 | 1.75 | 44.5 | 7/16                 | 11.1 | 1000          |
| KKJ-6-RT | 3/8        | 9.5 | 1.281 | 32.5 | 2.00 | 50.8 | 17/32                | 13.5 | 1000          |

- Specifications:
- Material: UL94 V-0 PVC
  - Color: Grey

MKKJ Series  
Mini Adhesive Mount Clamp



- Specifications:
- Material: UL94 V-0 PVC
  - Color: Clear

- Features:
- Clear color hides clamp

| Item No.  | Ø A Bundle |     | B     |      | C     |      | D at Max Bundle Ref |      | Bulk Pack Qty |
|-----------|------------|-----|-------|------|-------|------|---------------------|------|---------------|
|           | in         | mm  | in    | mm   | in    | mm   | in                  | mm   |               |
| MKKJ-2-RT | 0.125      | 3.2 | 0.437 | 11.1 | 0.375 | 9.5  | 0.234               | 6.0  | 1000          |
| MKKJ-3-RT | 0.187      | 4.8 | 0.625 | 15.9 | 0.437 | 11.1 | 0.328               | 8.3  | 1000          |
| MKKJ-4-RT | 0.250      | 6.4 | 0.656 | 16.7 | 0.500 | 12.7 | 0.406               | 10.3 | 1000          |
| MKKJ-5-RT | 0.312      | 7.9 | 0.812 | 20.6 | 0.562 | 14.3 | 0.484               | 12.3 | 1000          |
| MKKJ-6-RT | 0.375      | 9.5 | 0.875 | 22.2 | 0.625 | 15.9 | 0.562               | 14.3 | 1000          |

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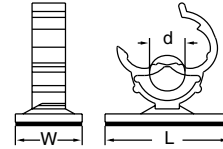
### Adhesive Mount Clamp

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Strong adhesion for quick and easy installation
- One size fits a range of cable diameters



| Item No. | Holding Capacity d |      | W     |      | L     |      | Bulk Pack Qty |
|----------|--------------------|------|-------|------|-------|------|---------------|
|          | in                 | mm   | in    | mm   | in    | mm   |               |
| 460317   | 0.441              | 11.2 | 0.630 | 16.0 | 1.173 | 29.8 | 1000          |

### KKF Series

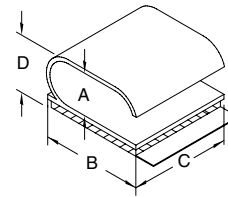
#### Adhesive Mount Clamp

#### Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

#### Features:

- Can hold three wire leads (such as air conditioning leads)



| Item No.    | Holding Capacity A |            | B     |      | C     |      | Max Capacity D |     | Bulk Pack Qty |
|-------------|--------------------|------------|-------|------|-------|------|----------------|-----|---------------|
|             | in                 | mm         | in    | mm   | in    | mm   | in             | mm  |               |
| KKF-10X4-RT | 0.20 x 0.56        | 5.1 x 14.3 | 0.750 | 19.1 | 0.750 | 19.1 | 0.36           | 9.1 | 100           |

### KKC Series

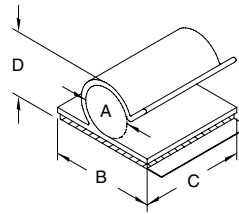
#### Adhesive Mount Clamp

#### Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

#### Features:

- For securely clamping cable or tubing



| Item No.  | Holding Capacity A |      | B     |      | C     |      | D    |      | Bulk Pack Qty |
|-----------|--------------------|------|-------|------|-------|------|------|------|---------------|
|           | in                 | mm   | in    | mm   | in    | mm   | in   | mm   |               |
| KKC-2-RT  | 1/8                | 3.2  | 0.750 | 19.1 | 0.750 | 19.1 | 0.31 | 7.9  | 500           |
| KKC-3-RT  | 3/16               | 4.8  | 0.750 | 19.1 | 0.750 | 19.1 | 0.33 | 8.4  | 500           |
| KKC-4-RT  | 1/4                | 6.4  | 0.750 | 19.1 | 0.750 | 19.1 | 0.42 | 10.7 | 500           |
| KKC-5-RT  | 5/16               | 7.9  | 0.750 | 19.1 | 0.750 | 19.1 | 0.48 | 12.2 | 500           |
| KKC-6-RT  | 3/8                | 9.5  | 0.750 | 19.1 | 0.750 | 19.1 | 0.60 | 15.2 | 500           |
| KKC-8-RT  | 1/2                | 12.7 | 1.000 | 25.4 | 1.000 | 25.4 | 0.69 | 17.5 | 100           |
| KKC-12-RT | 3/4                | 19.1 | 1.000 | 25.4 | 1.000 | 25.4 | 0.94 | 23.9 | 100           |

### UC/HUC Series

#### Adhesive Mount U Clamp

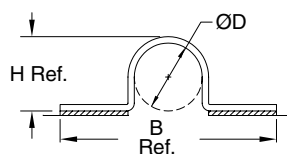


Figure 1

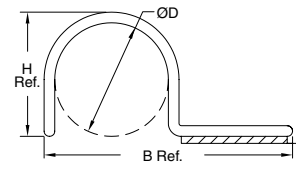


Figure 2



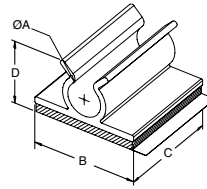
#### Specifications:

- Material: UL94 V-0 PVC
- Color: Black

| Item No. | Figure | D Holding Capacity |      | B Ref. |      | H Ref. |      | Depth |      | Bulk Pack Qty |
|----------|--------|--------------------|------|--------|------|--------|------|-------|------|---------------|
|          |        | in                 | mm   | in     | mm   | in     | mm   | in    | mm   |               |
| UC-2-RT  | 1      | 1/8                | 3.2  | 1.219  | 30.9 | 0.172  | 4.4  | 0.625 | 15.9 | 1000          |
| HUC-2-RT | 2      | 1/8                | 3.2  | 0.718  | 18.3 | 0.172  | 4.4  | 0.625 | 15.9 | 1000          |
| UC-4-RT  | 1      | 1/4                | 6.4  | 1.344  | 34.1 | 0.297  | 7.5  | 0.625 | 15.9 | 1000          |
| HUC-4-RT | 2      | 1/4                | 6.4  | 1.343  | 34.1 | 0.297  | 7.5  | 0.625 | 15.9 | 1000          |
| UC-6-RT  | 1      | 3/8                | 9.5  | 1.469  | 37.3 | 0.422  | 10.7 | 0.625 | 15.9 | 1000          |
| UC-8-RT  | 1      | 1/2                | 12.7 | 1.594  | 40.4 | 0.547  | 13.9 | 0.625 | 15.9 | 1000          |



## CABLE CLIPS &amp; CLAMPS

KKU Series  
Adhesive Mount Clamp

## Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

## Features:

- To hold wires, cords, or cables in place

| Item No.  | Ø A Bundle |      | B     |      | C     |      | D Ref. |      | Bulk Pack Qty |
|-----------|------------|------|-------|------|-------|------|--------|------|---------------|
|           | in         | mm   | in    | mm   | in    | mm   | in     | mm   |               |
| KKU-2-RT  | 1/8        | 3.2  | 0.750 | 19.1 | 0.750 | 19.1 | 0.281  | 7.1  | 500           |
| KKU-4-RT  | 1/4        | 6.4  | 0.750 | 19.1 | 0.750 | 19.1 | 0.468  | 11.9 | 500           |
| KKU-6-RT  | 3/8        | 9.5  | 0.750 | 19.1 | 0.750 | 19.1 | 0.593  | 15.1 | 500           |
| KKU-8-RT  | 1/2        | 12.7 | 1.000 | 25.4 | 1.000 | 25.4 | 0.687  | 17.5 | 100           |
| KKU-9-RT  | 9/16       | 14.3 | 1.000 | 25.4 | 1.000 | 25.4 | 0.750  | 19.1 | 100           |
| KKU-12-RT | 3/4        | 19.1 | 1.000 | 25.4 | 1.000 | 25.4 | 0.906  | 23.0 | 100           |

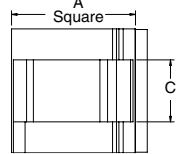
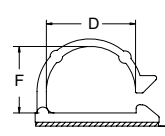
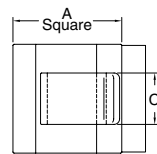
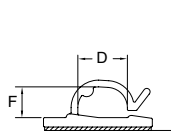
WCK/MWCK Series  
Adhesive Mount Clips

Figure 1

Figure 2

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- To hold wires, cords, or cables in place

| Item No.         | Figure | Approval | A    |      | C    |      | D     |      | F    |      | Bulk Pack Qty |
|------------------|--------|----------|------|------|------|------|-------|------|------|------|---------------|
|                  |        |          | in   | mm   | in   | mm   | in    | mm   | in   | mm   |               |
| WCK-180-01A-RT   | 1      | UL       | 0.63 | 16.0 | 0.31 | 7.9  | 0.340 | 8.6  | 0.16 | 4.0  | 1000          |
| WCK-280-01A4-RT  | 1      | —        | 0.75 | 19.0 | 0.39 | 10.0 | 0.263 | 6.7  | 0.22 | 5.7  | 1000          |
| WCK-460-01A-RT   | 1      | UL       | 0.99 | 25.1 | 0.47 | 11.9 | 0.45  | 11.4 | 0.28 | 7.1  | 1000          |
| MWCK-460-01A4-RT | 2      | —        | 0.75 | 19.0 | 0.47 | 11.9 | 0.45  | 11.4 | 0.28 | 7.1  | 1000          |
| WCK-720-01A-RT   | 2      | —        | 1.00 | 25.4 | 0.50 | 12.7 | 0.72  | 18.3 | 0.54 | 13.6 | 1000          |

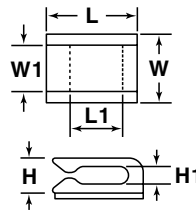
WCA Series  
Adhesive Mount Clips

Figure 1

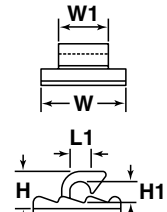


Figure 2

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Designed to support lightweight wire bundles when properly applied on any clean, smooth, grease-free surface

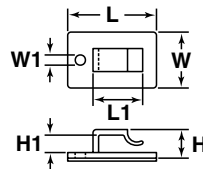


Figure 3

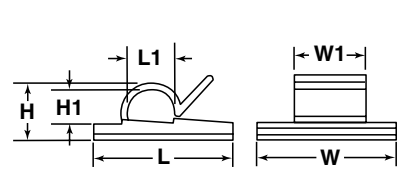


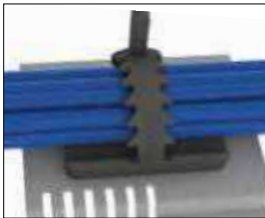
Figure 4

| Item No. | Figure | L    |      | L1    |      | W    |      | W1   |      | H    |     | H1   |     | Bulk Pack Qty |
|----------|--------|------|------|-------|------|------|------|------|------|------|-----|------|-----|---------------|
|          |        | in   | mm   | in    | mm   | in   | mm   | in   | mm   | in   | mm  | in   | mm  |               |
| WCA001A  | 1      | 0.51 | 13.0 | 0.354 | 9.0  | 0.37 | 9.5  | 0.26 | 6.5  | 0.20 | 5.2 | 0.11 | 2.8 | 100           |
| WCA002A  | 2      | 0.63 | 16.0 | 0.190 | 4.8  | 0.61 | 15.5 | 0.35 | 9.0  | 0.27 | 6.8 | 0.19 | 4.8 | 100           |
| WCA004A  | 3      | 1.06 | 27.0 | 0.58  | 14.8 | 0.67 | 17.0 | 0.12 | 3.1  | 0.34 | 8.7 | 0.22 | 5.5 | 100           |
| WCA005A  | 4      | 0.75 | 19.0 | 0.23  | 5.9  | 0.75 | 19.0 | 0.39 | 10.0 | 0.28 | 7.2 | 0.19 | 4.9 | 100           |

CABLE CLIPS & CLAMPS

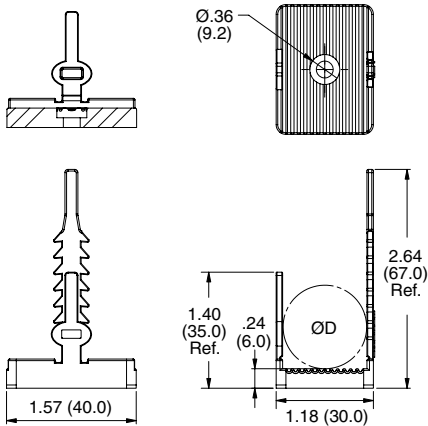


UMB Series  
Universal Rubber Clamp



- Specifications:
- Material: Neoprene Rubber, 50 Shore A
  - Color: Black

- Features:
- Flexible, serrated buckle style clamp provides a tight grip to the bundle
  - Large, ribbed base gives the cables extra surface area which provides some strain relief
  - Two mounting styles available: #10 screw or adhesive



| Item No.  | Mounting Method | D Approx. Max Cable Ø Bundle |      | Bulk Pack Qty |
|-----------|-----------------|------------------------------|------|---------------|
|           |                 | in                           | mm   |               |
| UMB-1     | #10 or M5 Screw | 0.79                         | 20.0 | 200           |
| UMB-1A-RT | Adhesive        | 0.79                         | 20.0 | 200           |

WM Series  
Adhesive Mount Wire Mounts



- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Black

- Features:
- Mounted over wires to hold them in place
  - Quick, secure mounting

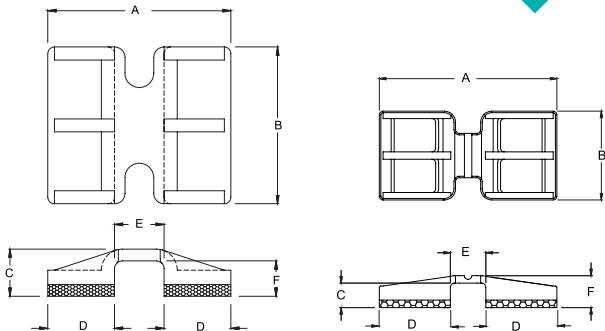


Figure 1

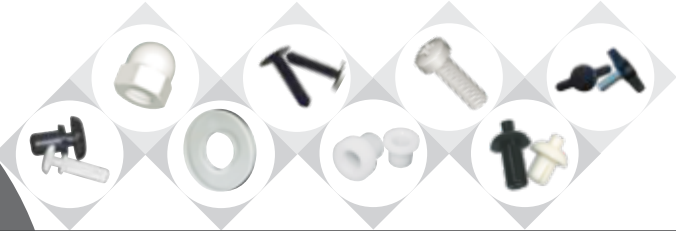
Figure 2

| Item No. | Figure | E     |     | F     |     | A     |      | B     |      | C     |     | D     |     | Bulk Pack Qty |
|----------|--------|-------|-----|-------|-----|-------|------|-------|------|-------|-----|-------|-----|---------------|
|          |        | in    | mm  | in    | mm  | in    | mm   | in    | mm   | in    | mm  | in    | mm  |               |
| WM-1A    | 1      | 0.150 | 3.8 | 0.102 | 2.6 | 0.551 | 14.0 | 0.472 | 12.0 | 0.138 | 3.5 | 0.201 | 5.1 | 1000          |
| WM-2A    | 1      | 0.189 | 4.8 | 0.102 | 2.6 | 0.945 | 24.0 | 0.472 | 12.0 | 0.142 | 3.6 | 0.378 | 9.6 | 500           |
| WM-3A    | 1      | 0.189 | 4.8 | 0.102 | 2.6 | 0.787 | 20.0 | 0.472 | 12.0 | 0.142 | 3.6 | 0.299 | 7.6 | 500           |
| WM-4A    | 1      | 0.205 | 5.2 | 0.110 | 2.8 | 0.945 | 24.0 | 0.472 | 12.0 | 0.150 | 3.8 | 0.370 | 9.4 | 500           |
| WM-5A    | 2      | 0.189 | 4.8 | 0.102 | 2.6 | 0.945 | 24.0 | 0.472 | 12.0 | 0.142 | 3.6 | 0.378 | 9.6 | 500           |
| WM-6A    | 2      | 0.189 | 4.8 | 0.122 | 3.1 | 0.945 | 24.0 | 0.472 | 12.0 | 0.161 | 4.1 | 0.378 | 9.6 | 500           |
| WM-7A    | 2      | 0.205 | 5.2 | 0.122 | 3.1 | 0.945 | 24.0 | 0.472 | 12.0 | 0.161 | 4.1 | 0.370 | 9.4 | 500           |

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## CABLE CLIPS &amp; CLAMPS

## HURC/DHURC/HURCBH/HURCS/DHURCS Series

## U Clamp

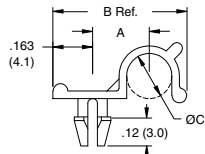


Figure 1

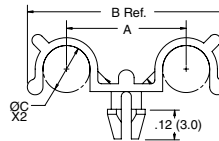


Figure 2

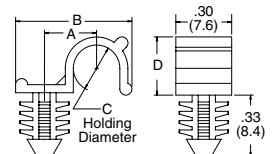


Figure 3

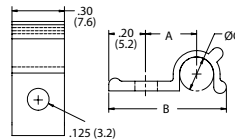


Figure 4

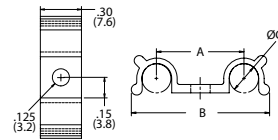


Figure 5

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

| Item No.    | Figure | Ø C Bundle |     | Ø Mounting Hole |     | Approval | A    |      | B Ref. |      | Panel Thickness |     | Bulk Pack Qty |
|-------------|--------|------------|-----|-----------------|-----|----------|------|------|--------|------|-----------------|-----|---------------|
|             |        | in         | mm  | in              | mm  |          | in   | mm   | in     | mm   | in              | mm  |               |
| HURC-2-01   | 1      | 0.125      | 3.2 | 0.125           | 3.2 | UL       | 0.20 | 5.1  | 0.49   | 12.4 | 0.062           | 1.6 | 1000          |
| HURC-3-01   | 1      | 0.187      | 4.8 | 0.125           | 3.2 | UL       | 0.24 | 6.1  | 0.56   | 14.2 | 0.062           | 1.6 | 1000          |
| HURC-4-01   | 1      | 0.250      | 6.4 | 0.125           | 3.2 | UL       | 0.27 | 6.9  | 0.62   | 15.7 | 0.062           | 1.6 | 1000          |
| HURC1-2-01  | 1      | 0.125      | 3.2 | 0.125           | 3.2 | UL       | 0.20 | 5.1  | 0.49   | 12.4 | 0.093           | 2.4 | 1000          |
| HURC1-3-01  | 1      | 0.187      | 4.8 | 0.125           | 3.2 | UL       | 0.24 | 6.1  | 0.56   | 14.2 | 0.093           | 2.4 | 1000          |
| HURC1-4-01  | 1      | 0.250      | 6.4 | 0.125           | 3.2 | UL       | 0.27 | 6.9  | 0.62   | 15.7 | 0.093           | 2.4 | 1000          |
| DHURC-2-01  | 2      | 0.125      | 3.2 | 0.125           | 3.2 | UL       | 0.41 | 10.4 | 0.66   | 16.8 | 0.062           | 1.6 | 1000          |
| DHURC-3-01  | 2      | 0.187      | 4.8 | 0.125           | 3.2 | UL       | 0.48 | 12.2 | 0.79   | 20.1 | 0.062           | 1.6 | 1000          |
| DHURC-4-01  | 2      | 0.250      | 6.4 | 0.125           | 3.2 | UL       | 0.55 | 14.0 | 0.94   | 23.9 | 0.062           | 1.6 | 1000          |
| HURCS-2-01  | 4      | 0.125      | 3.2 | 0.125           | 3.2 | —        | 0.25 | 6.2  | 0.59   | 15.0 | —               | —   | 1000          |
| HURCS-3-01  | 4      | 0.187      | 4.8 | 0.125           | 3.2 | —        | 0.28 | 7.1  | 0.65   | 15.6 | —               | —   | 1000          |
| HURCS-4-01  | 4      | 0.250      | 6.4 | 0.125           | 3.2 | —        | 0.32 | 8.1  | 0.72   | 18.3 | —               | —   | 1000          |
| DHURCS-2-01 | 5      | 0.125      | 3.2 | 0.125           | 3.2 | —        | 0.49 | 12.4 | 0.75   | 19.0 | —               | —   | 1000          |
| DHURCS-3-01 | 5      | 0.187      | 4.8 | 0.125           | 3.2 | —        | 0.56 | 14.2 | 0.89   | 22.6 | —               | —   | 1000          |
| DHURCS-4-01 | 5      | 0.250      | 6.4 | 0.125           | 3.2 | —        | 0.64 | 16.2 | 1.02   | 25.9 | —               | —   | 1000          |
| HURCBH-2-01 | 3      | 0.125      | 3.2 | 0.250           | 6.4 | —        | 0.49 | 12.4 | 0.17   | 4.3  | 0.250           | 6.4 | 1000          |
| HURCBH-3-01 | 3      | 0.187      | 4.8 | 0.250           | 6.4 | —        | 0.56 | 14.2 | 0.24   | 6.1  | 0.250           | 6.4 | 1000          |
| HURCBH-4-01 | 3      | 0.250      | 6.4 | 0.250           | 6.4 | —        | 0.62 | 15.7 | 0.30   | 7.6  | 0.250           | 6.4 | 1000          |

SRC Series  
Split Routing Clamp

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

## Features:

- Split design allows bundles to be loaded by separating the clip at the base
- Cannot be removed without removing the clip from the blind side of the application

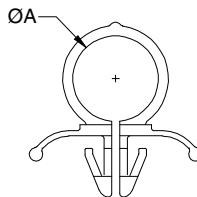


Figure 1

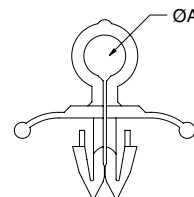


Figure 2

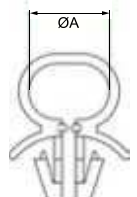


Figure 3

| Item No.          | Approval | Figure | Ø A Bundle |      | Hole Diameter |     | Panel Thickness |           | Color   | Bulk Pack Qty |
|-------------------|----------|--------|------------|------|---------------|-----|-----------------|-----------|---------|---------------|
|                   |          |        | in         | mm   | in            | mm  | in              | mm        |         |               |
| SRC-1-01          | —        | 2      | .197       | 5.0  | .246          | 6.2 | 0.079 - 0.118   | 2.0 - 3.0 | Natural | 1000          |
| SRC-4-01          | UL       | 1      | .250       | 6.4  | .250          | 6.4 | 0.050 - 0.060   | 1.3 - 1.5 | Natural | 1000          |
| • 101 001 000 202 | —        | 3      | .413       | 10.5 | .250          | 6.4 | 0.028 - 0.079   | 0.7 - 2.0 | Grey    | 500           |
| SRC-7-01          | UL       | 1      | .438       | 11.1 | .250          | 6.4 | 0.050 - 0.060   | 1.3 - 1.5 | Natural | 1000          |
| SRC-8-01          | UL       | 1      | .500       | 12.7 | .250          | 6.4 | 0.050 - 0.060   | 1.3 - 1.5 | Natural | 1000          |
| • 101 001 400 202 | —        | 3      | .551       | 14.0 | .250          | 6.4 | 0.028 - 0.079   | 0.7 - 2.0 | Grey    | 500           |
| SRC-10-01         | —        | 1      | .625       | 15.9 | .250          | 6.4 | 0.050 - 0.060   | 1.3 - 1.5 | Natural | 1000          |
| • 101 002 100 202 | —        | 3      | .846       | 21.5 | .250          | 6.4 | 0.028 - 0.079   | 0.7 - 2.0 | Grey    | 250           |
| • 101 003 000 202 | —        | 3      | 1.181      | 30.0 | .250          | 6.4 | 0.028 - 0.079   | 0.7 - 2.0 | Grey    | 250           |



### SRCC Series Strain Relief Clamp

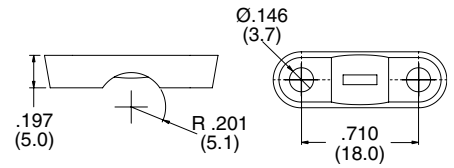


Figure 1

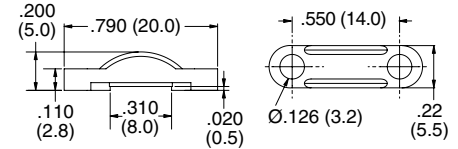


Figure 2

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

#### Features:

- Grips cable providing slight strain relief
- Securely installed with two screws

| Item No. | Figure | Color | Ø Max Cable | Mounting Screws | Bulk Pack Qty |
|----------|--------|-------|-------------|-----------------|---------------|
| SRCC-1   | 1      | Grey  | 0.177       | M3 or #6        | 1000          |
| SRCC-2   | 2      | Black | 0.310       | M3 or #4        | 1000          |

### D Series Two-Piece Locking Clamp

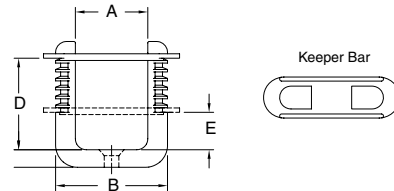


#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Mounts with a #8 or M4 flat-head machine screw
- Adjustable holding capacity
- Keeper bar is removable for changes or repairs



| Item No. | A Ref. |      | B Ref. |      | D Ref. |      | E Ref. |      | Bulk Pack Qty |
|----------|--------|------|--------|------|--------|------|--------|------|---------------|
|          | in     | mm   | in     | mm   | in     | mm   | in     | mm   |               |
| D-1      | 0.990  | 25.1 | 1.530  | 38.9 | 1.25   | 31.8 | 0.51   | 13.0 | 100           |
| D-1.5    | 1.457  | 37.0 | 2.175  | 55.3 | 1.65   | 41.9 | 0.66   | 16.8 | 100           |

### CH/RSC Series Snap In Cable Hanger



#### Specifications:

- Material: See Table
- Color: See Table

#### Features:

- Gathers and routes cables and wires
- Push mount design allows for fast installation

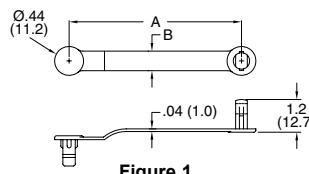


Figure 1

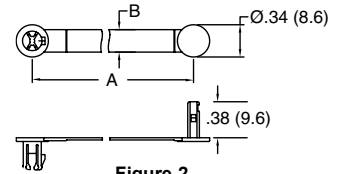


Figure 2

| Item No. |           | Figure | Ø Max Bundle |      | Ø Mounting Hole |     | A Ref |      | B     |     | Material              | Bulk Pack Qty |
|----------|-----------|--------|--------------|------|-----------------|-----|-------|------|-------|-----|-----------------------|---------------|
|          |           |        | in           | mm   | in              | mm  | in    | mm   | in    | mm  |                       |               |
| CH-1-01  | CH-1-01BK | 1      | 0.375        | 9.5  | 0.250           | 6.4 | 1.750 | 44.5 | 0.297 | 7.5 | UL94 V-2 Nylon 6/6    | 1000          |
| CH-2-01  | CH-2-01BK | 1      | 0.625        | 15.9 | 0.250           | 6.4 | 2.625 | 66.7 | 0.297 | 7.5 | UL94 V-2 Nylon 6/6    | 1000          |
| CH-1-10  | CH-1-10BK | 1      | 0.375        | 9.5  | 0.250           | 6.4 | 1.750 | 44.5 | 0.297 | 7.5 | UL94 HB Polypropylene | 1000          |
| CH-2-10  | CH-2-10BK | 1      | 0.625        | 15.9 | 0.250           | 6.4 | 2.625 | 66.7 | 0.297 | 7.5 | UL94 HB Polypropylene | 1000          |
| —        | RSC-3-01  | 2      | 0.218        | 5.6  | 0.189           | 4.8 | 1.100 | 28.0 | 0.160 | 4.0 | UL94 V-2 Nylon 6/6    | 1000          |
| —        | RSC-4-01  | 2      | 0.250        | 6.4  | 0.189           | 4.8 | 1.300 | 33.0 | 0.240 | 6.0 | UL94 V-2 Nylon 6/6    | 1000          |
| —        | RSC-6-01  | 2      | 0.375        | 9.5  | 0.189           | 4.8 | 1.690 | 43.0 | 0.240 | 6.0 | UL94 V-2 Nylon 6/6    | 1000          |
| —        | RSC-9-01  | 2      | 0.625        | 15.9 | 0.189           | 4.8 | 2.480 | 63.0 | 0.240 | 6.0 | UL94 V-2 Nylon 6/6    | 1000          |



CABLE CLIPS & CLAMPS

V Series  
Screw Mount Component Clip

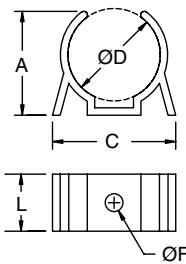
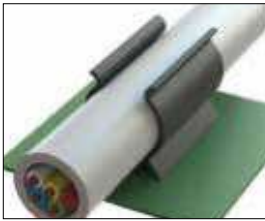


Figure 1

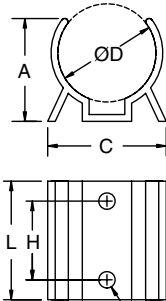


Figure 2

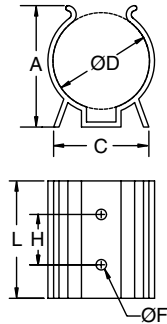


Figure 3

- Specifications:
- Material: UL94 V-0 PVC
  - Color: Black

- Features:
- Legs prevent shifting and tipping
  - Mounts securely with screws or rivets
  - Holds parts firmly

| Item No. | Ø D Holding |             | Ø F Hole Ref. |     | A Ref. |      | C Ref. |      | H Ref.      |           | L    |      | Figure | Bulk Pack Qty |
|----------|-------------|-------------|---------------|-----|--------|------|--------|------|-------------|-----------|------|------|--------|---------------|
|          | in          | mm          | in            | mm  | in     | mm   | in     | mm   | in          | mm        | in   | mm   |        |               |
| V-1000   | 0.25        | 6.4         | 0.094         | 2.4 | 0.30   | 7.5  | 0.50   | 12.7 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1001   | 0.31        | 7.9         | 0.094         | 2.4 | 0.36   | 9.1  | 0.50   | 12.7 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1002   | 0.38        | 9.5         | 0.094         | 2.4 | 0.41   | 10.3 | 0.50   | 12.7 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1003   | 0.44        | 11.1        | 0.094         | 2.4 | 0.45   | 11.5 | 0.52   | 13.1 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1004   | 0.50        | 12.7        | 0.094         | 2.4 | 0.50   | 12.7 | 0.66   | 16.7 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1005   | 0.56        | 14.3        | 0.094         | 2.4 | 0.61   | 15.5 | 0.72   | 18.3 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1006   | 0.63        | 15.9        | 0.094         | 2.4 | 0.63   | 15.9 | 0.83   | 21.0 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1007   | 0.69        | 17.6        | 0.156         | 4.0 | 0.63   | 15.9 | 0.84   | 21.0 | Single Hole | In Center | 0.50 | 12.7 | 1      | 1000          |
| V-1008   | 0.75        | 19.7        | 0.156         | 4.0 | 0.78   | 19.8 | 0.89   | 22.6 | Single Hole | In Center | 0.50 | 12.7 | 1      | 100           |
| V-1009   | 0.88        | 22.2        | 0.156         | 4.0 | 0.91   | 23.0 | 1.08   | 27.4 | Single Hole | In Center | 0.50 | 12.7 | 1      | 100           |
| V-1010   | 1.00        | 25.4        | 0.156         | 4.0 | 0.98   | 25.0 | 1.13   | 28.6 | .75         | 19.1      | 1.13 | 28.5 | 2      | 100           |
| V-1011   | 1.38        | 34.9        | 0.156         | 4.0 | 1.34   | 34.1 | 1.25   | 31.8 | .75         | 19.1      | 1.13 | 28.5 | 2      | 100           |
| V-1024   | 1.50        | 38.1        | 0.156         | 4.0 | 1.81   | 46.0 | 1.42   | 36.1 | .75         | 19.1      | 1.75 | 44.5 | 3      | 100           |
| V-1028   | 1.75        | 44.5        | 0.156         | 4.0 | 1.92   | 48.8 | 1.50   | 38.1 | .75         | 19.1      | 1.75 | 44.5 | 3      | 100           |
| V-1030   | 2.25 - 2.75 | 57.1 - 69.9 | 0.156         | 4.0 | 2.44   | 61.9 | 2.61   | 66.3 | .75         | 19.1      | 1.50 | 38.1 | 3      | 100           |

VM Series  
Screw Mount Component Clip

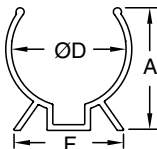


Figure 1

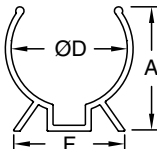


Figure 2



Figure 3

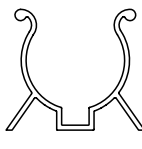
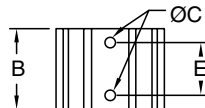
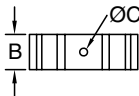


Figure 4

- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Black

- Features:
- Smooth edges protect components from wear and abrasion
  - Legs prevent shifting and tipping
  - Mounts securely with screws or rivets



| Item No. | Ø D Holding |      | C Hole Ø |     | A Ref. |      | B    |      | E                     |      | F Ref. |      | Figure | Bulk Pack Qty |
|----------|-------------|------|----------|-----|--------|------|------|------|-----------------------|------|--------|------|--------|---------------|
|          | in          | mm   | in       | mm  | in     | mm   | in   | mm   | in                    | mm   | in     | mm   |        |               |
| VM-1002  | 3/8         | 9.5  | 0.11     | 2.8 | 0.44   | 11.2 | 0.50 | 12.7 | Single Hole in Center |      | 0.54   | 13.7 | 1      | 100           |
| VM-1004  | 1/2         | 12.7 | 0.11     | 2.8 | 0.52   | 13.2 | 0.50 | 12.7 | Single Hole in Center |      | 0.75   | 19.1 | 1      | 100           |
| VM-1007  | 11/16       | 17.5 | 0.15     | 3.8 | 0.78   | 19.8 | 0.50 | 12.7 | Single Hole in Center |      | 0.82   | 20.8 | 1      | 100           |
| VM-1008  | 3/4         | 19.1 | 0.15     | 3.8 | 0.97   | 24.6 | 0.50 | 12.7 | Single Hole in Center |      | 0.98   | 24.9 | 1      | 100           |
| VM-1010  | 1           | 25.4 | 0.15     | 3.8 | 1.03   | 26.1 | 1.12 | 28.4 | .750                  | 19.1 | 1.25   | 31.8 | 2      | 100           |
| VM-1011  | 1-3/8       | 34.9 | 0.15     | 3.8 | 1.51   | 38.4 | 1.16 | 29.5 | .750                  | 19.1 | 1.37   | 34.8 | 2      | 100           |
| VM-1024  | 1-1/2       | 38.1 | 0.15     | 3.8 | 1.67   | 42.4 | 1.70 | 43.2 | .750                  | 19.1 | 1.50   | 38.1 | 3      | 100           |
| VM-1030  | 2-1/4       | 57.2 | 0.15     | 3.8 | 2.50   | 63.5 | 1.52 | 38.6 | .750                  | 19.1 | 3.00   | 76.2 | 4      | 100           |

## CABLE CLIPS &amp; CLAMPS



### ASK/RAK Series Adhesive Mount Aluminum Clamp

#### Specifications:

- Material: Aluminum, Bright Finish

#### Features:

- Aluminum arms are flexed around bundle
- Lightweight and durable
- Adhesive mount for quick installation

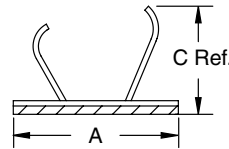
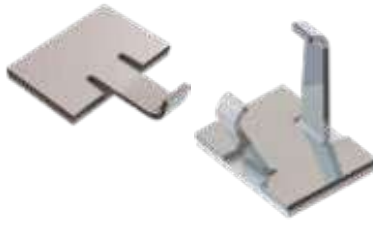


Figure 1

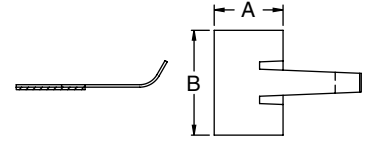


Figure 2

| Item No. | Figure | Ø Max Bundle |     | A    |      | B Base Depth |      | Bulk Pack Qty |
|----------|--------|--------------|-----|------|------|--------------|------|---------------|
|          |        | in           | mm  | in   | mm   | in           | mm   |               |
| ASK-3    | 1      | 0.234        | 6.0 | 0.44 | 11.3 | 0.66         | 16.8 | 250           |
| ASK-6    | 1      | 0.375        | 9.5 | 0.62 | 15.7 | 0.74         | 18.8 | 250           |
| RAK-1    | 2      | 0.234        | 6.0 | 0.44 | 11.3 | 0.67         | 17.1 | 250           |
| RAK-2    | 2      | 0.375        | 9.5 | 0.64 | 16.3 | 0.76         | 19.3 | 250           |

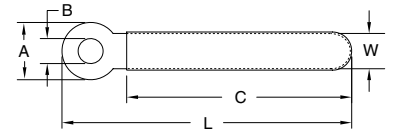
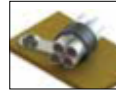
### VCC Series Vinyl Coated Adjustable Steel Clamp

#### Specifications:

- Material: PVC Coated Soft Steel
- Color: Body - Steel Coating - Black

#### Features:

- For bundling and clamping cable or tubing securely
- Vinyl coating grips and insulates the cable
- Easily bends and forms to desired shape for varying holding diameters



| Item No.   | Ø Bundle |      | C Ref. |       | L Ref. |       | W Ref. |     | A     |     | Ø B   |     | Pack Qty | Bulk Pack Qty |
|------------|----------|------|--------|-------|--------|-------|--------|-----|-------|-----|-------|-----|----------|---------------|
|            | in       | mm   | in     | mm    | in     | mm    | in     | mm  | in    | mm  | in    | mm  |          |               |
| VCC-83028  | 0.22     | 5.7  | 0.71   | 18.0  | 1.10   | 28.0  | 0.12   | 3.0 | 0.315 | 8.0 | 0.118 | 3.0 | 1        | 1000          |
| VCC-83535  | 0.31     | 7.9  | 0.98   | 25.0  | 1.34   | 35.0  | 0.20   | 5.0 | 0.315 | 8.0 | 0.138 | 3.5 | 1        | 1000          |
| VCC-83540  | 0.37     | 9.5  | 1.18   | 30.0  | 1.57   | 40.0  | 0.12   | 3.0 | 0.315 | 8.0 | 0.138 | 3.5 | 1        | 1000          |
| VCC-63048  | 0.50     | 12.7 | 1.57   | 40.0  | 1.89   | 48.0  | 0.08   | 2.0 | 0.236 | 6.0 | 0.118 | 3.0 | 1        | 1000          |
| VCC-84554  | 0.52     | 13.3 | 1.65   | 42.0  | 2.13   | 54.0  | 0.19   | 4.8 | 0.315 | 8.0 | 0.177 | 4.5 | 1        | 1000          |
| VCC-63254  | 0.57     | 14.6 | 1.81   | 46.0  | 2.13   | 54.0  | 0.14   | 3.6 | 0.236 | 6.0 | 0.126 | 3.2 | 1        | 1000          |
| VCC-83664  | 0.66     | 16.9 | 2.09   | 53.0  | 2.52   | 64.0  | 0.20   | 5.0 | 0.315 | 8.0 | 0.161 | 4.1 | 1        | 1000          |
| VCC-84576  | 0.81     | 20.7 | 2.56   | 65.0  | 2.99   | 76.0  | 0.18   | 4.5 | 0.315 | 8.0 | 0.177 | 4.5 | 1        | 1000          |
| VCC-84584  | 0.90     | 22.9 | 2.83   | 72.0  | 3.31   | 84.0  | 0.18   | 4.5 | 0.315 | 8.0 | 0.177 | 4.5 | 1        | 1000          |
| VCC-845126 | 1.40     | 35.6 | 4.41   | 112.0 | 4.96   | 126.0 | 0.24   | 6.0 | 0.315 | 8.0 | 0.177 | 4.5 | 1        | 100           |

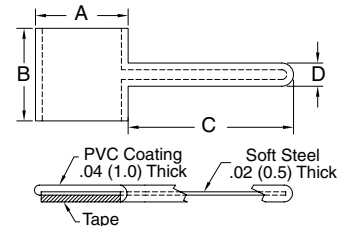
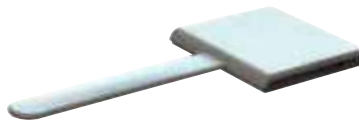
### PCC Series Adhesive Mount Vinyl Coated Adjustable Steel Clamp

#### Specifications:

- Material: Soft Steel with PVC Coating
- Color: White

#### Features:

- Protects and insulates wires or components
- Flexible arm holds flat, round, or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters



| Item No. | A Ref. |      | B    |      | C Ref. |      | D Ref. |     | Bulk Pack Qty |
|----------|--------|------|------|------|--------|------|--------|-----|---------------|
|          | in     | mm   | in   | mm   | in     | mm   | in     | mm  |               |
| PCC-5    | 0.31   | 8.0  | 0.31 | 8.0  | 0.59   | 15.0 | 0.08   | 2.1 | 1000          |
| PCC-9    | 0.55   | 14.0 | 0.55 | 14.0 | 0.98   | 25.0 | 0.14   | 3.5 | 500           |
| PCC-12   | 0.75   | 19.0 | 0.75 | 19.0 | 1.58   | 40.0 | 0.16   | 4.0 | 500           |

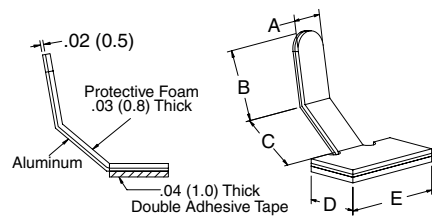
### PFC Series Adhesive Mount Foam Coated Adjustable Steel Clamp

#### Specifications:

- Material: Foam Coated Aluminum
- Color: Grey Coated

#### Features:

- Made of aluminum with a protective foam coating on the inside of the clamp that protects cables and fibers
- Flexible arm holds flat, round or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters



| Item No. | A Ref. |     | B Ref. |      | C Ref. |      | D     |      | E     |      | Bulk Pack Qty |
|----------|--------|-----|--------|------|--------|------|-------|------|-------|------|---------------|
|          | in     | mm  | in     | mm   | in     | mm   | in    | mm   | in    | mm   |               |
| PFC-25M  | 0.189  | 4.8 | 0.494  | 12.6 | 0.437  | 11.1 | 0.397 | 10.1 | 0.751 | 19.1 | 1000          |
| PFC-50M  | 0.205  | 5.2 | 0.573  | 14.6 | 0.555  | 14.1 | 0.553 | 14.1 | 0.982 | 25.0 | 1000          |



## CABLE CLIPS &amp; CLAMPS

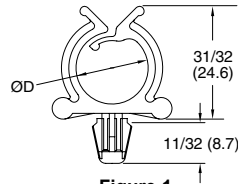
RWS/RWSB Series  
Round Clamp

Figure 1

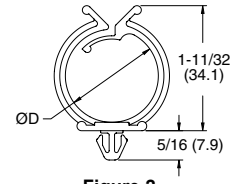


Figure 2

## Specifications:

- Material: Nylon 6/6
- Color: See Table

## Features:

- Gathers and routes cables and wires
- Push mount design allows for fast installation
- Adhesive base makes installation quick and easy

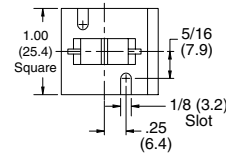
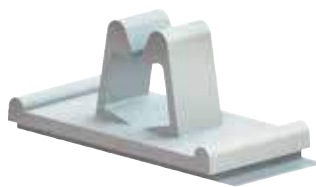


Figure 3



| Item No.       |           | Mounting Method | Approval | Figure | Ø D Holding |      | Mounting Hole |     | Panel Thickness |           | Depth |      | Color   | Bulk Pack Qty |
|----------------|-----------|-----------------|----------|--------|-------------|------|---------------|-----|-----------------|-----------|-------|------|---------|---------------|
| UL94 V-2       | UL94 V-0  |                 |          |        | in          | mm   | in            | mm  | in              | mm        | in    | mm   |         |               |
| RWS-10-01      | RWS-10-19 | Snap-In         | UL       | 1      | 0.625       | 15.9 | Ø .250        | 6.4 | 0.030 - 0.060   | 0.8 - 1.5 | 0.297 | 17.5 | Natural | 1000          |
| RWS-10-01BK    | —         | Snap-In         | UL       | 1      | 0.625       | 15.9 | Ø .250        | 6.4 | 0.030 - 0.060   | 0.8 - 1.5 | 0.297 | 17.5 | Black   | 1000          |
| RWS-16-01      | RWS-16-19 | Snap-In         | UL       | 2      | 1.000       | 25.4 | .250 Square   | 6.4 | 0.058 - 0.064   | 1.5 - 1.6 | 0.297 | 17.5 | Natural | 1000          |
| RWS-16-01BK    | —         | Snap-In         | UL       | 2      | 1.000       | 25.4 | .250 Square   | 6.4 | 0.058 - 0.064   | 1.5 - 1.6 | 0.297 | 17.5 | Black   | 1000          |
| RWSB-10-01A-RT | —         | Adhesive        | —        | 3      | 0.625       | 15.9 | —             | —   | —               | —         | 1.000 | 25.4 | Natural | 1000          |
| RWSB-16-01A-RT | —         | Adhesive        | —        | 3      | 1.000       | 25.4 | —             | —   | —               | —         | 1.000 | 25.4 | Natural | 1000          |
| RWSB-10-01     | —         | Screw           | —        | 3      | 0.625       | 15.9 | —             | —   | —               | —         | 1.000 | 25.4 | Natural | 1000          |
| RWSB-16-01     | —         | Screw           | —        | 3      | 1.000       | 25.4 | —             | —   | —               | —         | 1.000 | 25.4 | Natural | 1000          |

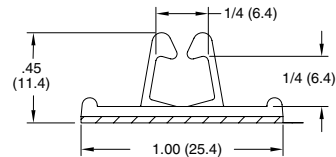
WCB Series  
Cord Clip On Adhesive Base

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Routes and fastens cords and cables
- Adhesive mount design for quick and easy installation



| Item No.       | Approval | Depth |      | Bulk Pack Qty |
|----------------|----------|-------|------|---------------|
|                |          | in    | mm   |               |
| WCB-250-01A-RT | UL       | 0.500 | 12.7 | 1000          |

SCCA/SCCB Series  
Standoff Cable Clip

## Specifications:

- Material: Nylon 6/6
- Color: Natural
- Mounting Hole: .256 - .276 (6.5 - 7.0)
- Panel Thickness: .024 - 0.079 (0.6 - 2.0)

## Features:

- Gathers and routes wires
- Standoff design provides spacing between the wires and chassis

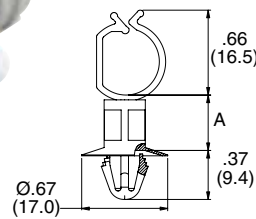


Figure 1

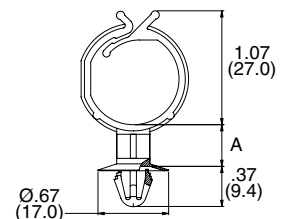


Figure 2

| Item No.  |           | Figure | Ø Max Bundle |      | A    |      | Bulk Pack Qty |
|-----------|-----------|--------|--------------|------|------|------|---------------|
| UL94 V-2  | UL94 V-0  |        | in           | mm   | in   | mm   |               |
| SCCA-1-01 | SCCA-1-19 | 1      | 0.87         | 22.0 | 0.16 | 4.0  | 1000          |
| SCCA-2-01 | SCCA-2-19 | 1      | 0.87         | 22.0 | 0.24 | 6.0  | 1000          |
| SCCA-3-01 | SCCA-3-19 | 1      | 0.87         | 22.0 | 0.32 | 8.0  | 1000          |
| SCCA-4-01 | —         | 1      | 0.87         | 22.0 | 0.39 | 10.0 | 1000          |
| SCCA-5-01 | SCCA-5-19 | 1      | 0.87         | 22.0 | 0.47 | 12.0 | 1000          |
| SCCB-1-01 | SCCB-1-19 | 2      | 0.43         | 11.0 | 0.16 | 4.0  | 1000          |
| SCCB-2-01 | —         | 2      | 0.43         | 11.0 | 0.24 | 6.0  | 1000          |
| SCCB-3-01 | SCCB-3-19 | 2      | 0.43         | 11.0 | 0.32 | 8.0  | 1000          |
| SCCB-4-01 | —         | 2      | 0.43         | 11.0 | 0.39 | 10.0 | 1000          |
| SCCB-5-01 | SCCB-5-19 | 2      | 0.43         | 11.0 | 0.47 | 12.0 | 1000          |
| SCCB-6-01 | —         | 2      | 0.43         | 11.0 | 1.18 | 30.0 | 1000          |



### SLCS/SLCSE Series Standoff Locking Clip

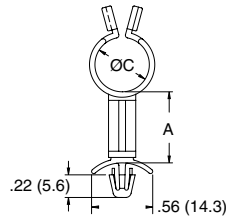


Figure 1

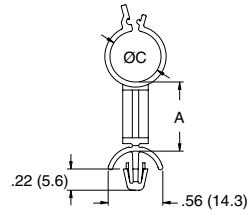


Figure 2



#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- SLCS/SLCSE Panel Thickness: 0.031 - 0.078 (0.8 - 2.0)
- SLCSE2 Panel Thickness: 0.078 - 0.160 (2.0 - 4.0)

#### Features:

- Gathers and routes wires
- Easy locking design makes it easy to open and close with very little effort
- Standoff design provides spacing between the wires and the chassis

| Item No.       | Approval | Figure | A     |      | Ø C Max Bundle |      | Bulk Pack Qty |
|----------------|----------|--------|-------|------|----------------|------|---------------|
|                |          |        | in    | mm   | in             | mm   |               |
| SLCS-250-3-01  | UL       | 1      | 0.187 | 4.8  | 0.187          | 4.8  | 1000          |
| SLCS-250-4-01  | UL       | 1      | 0.250 | 6.4  | 0.187          | 4.8  | 1000          |
| SLCS-250-6-01  | UL       | 1      | 0.375 | 9.5  | 0.187          | 4.8  | 1000          |
| SLCS-250-8-01  | UL       | 1      | 0.500 | 12.7 | 0.187          | 4.8  | 1000          |
| SLCS-250-16-01 | UL       | 1      | 1.000 | 25.4 | 0.187          | 4.8  | 1000          |
| SLCS-370-3-01  | UL       | 1      | 0.187 | 4.8  | 0.312          | 7.9  | 1000          |
| SLCS-370-4-01  | UL       | 1      | 0.250 | 6.4  | 0.312          | 7.9  | 1000          |
| SLCS-370-6-01  | UL       | 1      | 0.375 | 9.5  | 0.312          | 7.9  | 1000          |
| SLCS-370-8-01  | UL       | 1      | 0.500 | 12.7 | 0.312          | 7.9  | 1000          |
| SLCS-370-16-01 | UL       | 1      | 1.000 | 25.4 | 0.312          | 7.9  | 1000          |
| SLCS-500-3-01  | UL       | 1      | 0.187 | 4.8  | 0.437          | 11.1 | 1000          |
| SLCS-500-4-01  | UL       | 1      | 0.250 | 6.4  | 0.437          | 11.1 | 1000          |
| SLCS-500-6-01  | UL       | 1      | 0.375 | 9.5  | 0.437          | 11.1 | 1000          |
| SLCS-500-8-01  | UL       | 1      | 0.500 | 12.7 | 0.437          | 11.1 | 1000          |

| Item No.        | Approval | Figure | A     |      | Ø C Max Bundle |      | Bulk Pack Qty |
|-----------------|----------|--------|-------|------|----------------|------|---------------|
|                 |          |        | in    | mm   | in             | mm   |               |
| SLCS-500-16-01  | UL       | 1      | 1.000 | 25.4 | 0.437          | 11.1 | 1000          |
| SLCS-750-3-01   | UL       | 1      | 0.187 | 4.8  | 0.687          | 17.5 | 1000          |
| SLCS-750-4-01   | UL       | 1      | 0.250 | 6.4  | 0.687          | 17.5 | 1000          |
| SLCS-750-6-01   | UL       | 1      | 0.375 | 9.5  | 0.687          | 17.5 | 1000          |
| SLCS-750-8-01   | UL       | 1      | 0.500 | 12.7 | 0.687          | 17.5 | 1000          |
| SLCS-750-16-01  | UL       | 1      | 1.000 | 25.4 | 0.687          | 17.5 | 1000          |
| SLCSE-250-3-01  | UL       | 2      | 0.187 | 4.8  | 0.220          | 5.6  | 1000          |
| SLCSE-370-3-01  | UL       | 2      | 0.187 | 4.8  | 0.350          | 8.9  | 1000          |
| SLCSE-500-3-01  | UL       | 2      | 0.187 | 4.8  | 0.470          | 12.0 | 1000          |
| SLCSE-750-3-01  | UL       | 2      | 0.187 | 4.8  | 0.730          | 18.4 | 1000          |
| SLCSE2-250-3-01 | UL       | 2      | 0.187 | 4.8  | 0.220          | 5.6  | 1000          |
| SLCSE2-370-3-01 | UL       | 2      | 0.187 | 4.8  | 0.350          | 8.9  | 1000          |
| SLCSE2-500-3-01 | UL       | 2      | 0.187 | 4.8  | 0.470          | 12.0 | 1000          |
| SLCSE2-750-3-01 | UL       | 2      | 0.187 | 4.8  | 0.730          | 18.4 | 1000          |

### SHK/SHKE/SHKBS Series Standoff Cable Clip

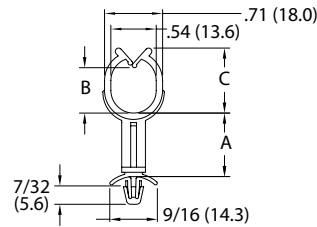


Figure 1

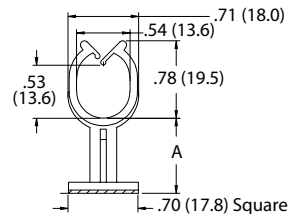


Figure 2

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Gathers and routes wire harnesses
- Standoff design provides spacing between the wire harnesses and the chassis

| Item No.       | Approval | Figure | A     |      | B Ref. |      | C Ref. |      | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|----------------|----------|--------|-------|------|--------|------|--------|------|-----------------|-----|-----------------|-----------|---------------|
|                |          |        | in    | mm   | in     | mm   | in     | mm   | in              | mm  | in              | mm        |               |
| SHK-6-01       | UL       | 1      | 0.375 | 9.5  | 0.540  | 13.6 | 0.770  | 19.5 | 0.187           | 4.8 | 0.031 - 0.78    | 0.8 - 2.0 | 1000          |
| SHK-8-01       | UL       | 1      | 0.500 | 12.7 | 0.540  | 13.6 | 0.770  | 19.5 | 0.187           | 4.8 | 0.031 - 0.78    | 0.8 - 2.0 | 1000          |
| SHKE-6-01      | —        | 1      | 0.375 | 9.5  | 0.810  | 20.6 | 1.140  | 29.0 | 0.187           | 4.8 | 0.031 - 0.78    | 0.8 - 2.0 | 1000          |
| SHKE-8-01      | —        | 1      | 0.500 | 12.7 | 0.810  | 20.6 | 1.140  | 29.0 | 0.187           | 4.8 | 0.031 - 0.78    | 0.8 - 2.0 | 1000          |
| SHKBS-4-01A-RT | —        | 2      | 0.250 | 6.4  | —      | —    | —      | —    | —               | —   | —               | —         | 1000          |
| SHKBS-8-01A-RT | —        | 2      | 0.500 | 12.7 | —      | —    | —      | —    | —               | —   | —               | —         | 1000          |

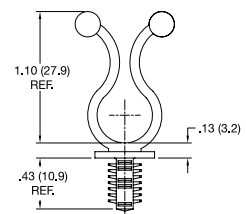
### STL-8 Series Standoff Twist Lock

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

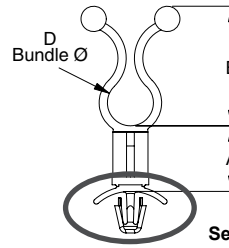
- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist



| Item No.       | Ø Bundle      |             | Hole Ø |     | Min Board Thickness |     | Bulk Pack Qty |
|----------------|---------------|-------------|--------|-----|---------------------|-----|---------------|
|                | in            | mm          | in     | mm  | in                  | mm  |               |
| STL-8-450-2-01 | 0.400 - 0.500 | 10.2 - 12.7 | 0.250  | 6.4 | 0.250               | 7.2 | 1000          |



## TWIST TIES

STL Series  
Standoff Twist Lock

Hole Ø: .187 (4.75)  
Panel Thickness:  
.031-.078 (0.8-2)

See Individual Styles for Mounting Details

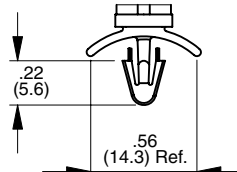
## STL Basic Style

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

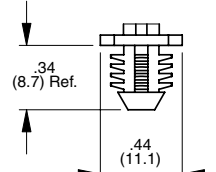
## Features:

- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist
- Four mounting styles



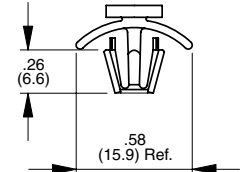
Hole Ø: .156 (4)  
Panel Thickness:  
.031-.078 (0.8-2)

## STL-1



Hole Ø: .312 (7.9)  
Panel Thickness:  
.250 (7.9) Minimum

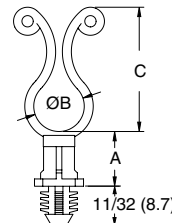
## STL-3



Hole Ø: .236 (6)  
Panel Thickness:  
.031-.078 (0.8-2)

## STL-6

| Item No.        |                |                |                | Approval | Ø D Bundle    |             | A Spacer Length |      | B Ref. |      | Bulk Pack Qty |
|-----------------|----------------|----------------|----------------|----------|---------------|-------------|-----------------|------|--------|------|---------------|
| STL Basic Style | STL-1          | STL-3          | STL-6          |          | in            | mm          | in              | mm   | in     | mm   |               |
| STL-250-3-01    | STL-1-250-3-01 | STL-3-250-3-01 | STL-6-250-3-01 | UL       | 0.200 - 0.300 | 5.1 - 7.6   | 0.187           | 4.8  | 0.750  | 19.1 | 1000          |
| STL-250-8-01    | STL-1-250-8-01 | STL-3-250-8-01 | STL-6-250-8-01 | UL       | 0.200 - 0.300 | 5.1 - 7.6   | 0.500           | 12.7 | 0.750  | 19.1 | 1000          |
| STL-350-3-01    | STL-1-350-3-01 | STL-3-350-3-01 | STL-6-350-3-01 | UL       | 0.300 - 0.400 | 7.6 - 10.2  | 0.187           | 4.8  | 0.910  | 23.1 | 1000          |
| STL-350-8-01    | STL-1-350-8-01 | STL-3-350-8-01 | STL-6-350-8-01 | UL       | 0.300 - 0.400 | 7.6 - 10.2  | 0.500           | 12.7 | 0.910  | 23.1 | 1000          |
| STL-450-3-01    | STL-1-450-3-01 | STL-3-450-3-01 | STL-6-450-3-01 | UL       | 0.400 - 0.500 | 10.2 - 12.7 | 0.187           | 4.8  | 1.090  | 27.7 | 1000          |
| STL-450-8-01    | STL-1-450-8-01 | STL-3-450-8-01 | STL-6-450-8-01 | UL       | 0.400 - 0.500 | 10.2 - 12.7 | 0.500           | 12.7 | 1.090  | 27.7 | 1000          |
| STL-600-3-01    | STL-1-600-3-01 | STL-3-600-3-01 | STL-6-600-3-01 | UL       | 0.500 - 0.600 | 12.7 - 15.2 | 0.187           | 4.8  | 1.280  | 32.5 | 1000          |
| STL-600-8-01    | STL-1-600-8-01 | STL-3-600-8-01 | STL-6-600-8-01 | UL       | 0.500 - 0.600 | 12.7 - 15.2 | 0.500           | 12.7 | 1.280  | 32.5 | 1000          |
| STL-750-3-01    | STL-1-750-3-01 | STL-3-750-3-01 | STL-6-750-3-01 | UL       | 0.700 - 0.800 | 17.8 - 20.3 | 0.187           | 4.8  | 1.450  | 36.8 | 1000          |
| STL-750-8-01    | STL-1-750-8-01 | STL-3-750-8-01 | STL-6-750-8-01 | UL       | 0.700 - 0.800 | 17.8 - 20.3 | 0.500           | 12.7 | 1.450  | 36.8 | 1000          |

BHKL Series  
Fir-Tree Curly Lock

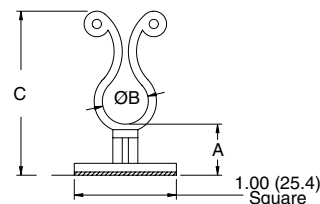
## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- To press fit in a .312 (7.9) Ø hole in a .250 (6.4) minimum panel thickness

## Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

| Item No.       | Approval | Ø B Bundle    |             | A     |      | C Ref. |      | Bulk Pack Qty |
|----------------|----------|---------------|-------------|-------|------|--------|------|---------------|
|                |          | in            | mm          | in    | mm   | in     | mm   |               |
| BHKL-350-4-01  | UL       | 0.300 - 0.400 | 7.6 - 10.2  | 0.250 | 6.4  | 1.000  | 25.4 | 1000          |
| BHKL-350-10-01 | UL       | 0.300 - 0.400 | 7.6 - 10.2  | 0.625 | 15.9 | 1.000  | 25.4 | 1000          |
| BHKL-450-4-01  | UL       | 0.400 - 0.500 | 10.2 - 12.7 | 0.250 | 6.4  | 1.125  | 28.6 | 1000          |
| BHKL-450-6-01  | UL       | 0.400 - 0.500 | 10.2 - 12.7 | 0.375 | 9.5  | 1.125  | 28.6 | 1000          |
| BHKL-750-4-01  | UL       | 0.700 - 0.800 | 17.8 - 20.3 | 0.250 | 6.4  | 1.500  | 38.1 | 1000          |
| BHKL-750-6-01  | UL       | 0.700 - 0.800 | 17.8 - 20.3 | 0.375 | 9.5  | 1.500  | 38.1 | 1000          |

KLBS Series  
Adhesive Mount Standoff Curly Lock

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

| Item No.       | Approval | A     |      | Ø B Bundle    |            | C Ref. |      | Bulk Pack Qty |
|----------------|----------|-------|------|---------------|------------|--------|------|---------------|
|                |          | in    | mm   | in            | mm         | in     | mm   |               |
| KLBS-350-401A  | UL       | 0.250 | 6.4  | 0.300 - 0.400 | 7.6 - 10.2 | 1.281  | 32.5 | 1000          |
| KLBS-3508-01A  | UL       | 0.500 | 12.7 | 0.300 - 0.400 | 7.6 - 10.2 | 1.531  | 38.9 | 1000          |
| KLBS-35012-01A | UL       | 0.750 | 19.1 | 0.300 - 0.400 | 7.6 - 10.2 | 1.781  | 45.2 | 1000          |
| KLBS-35016-01A | UL       | 1.000 | 25.4 | 0.300 - 0.400 | 7.6 - 10.2 | 2.031  | 51.6 | 1000          |



### KLB Series Adhesive Mount Curly Lock

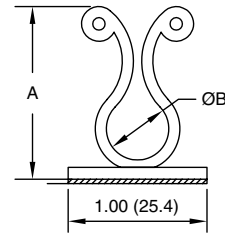


#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Cables are locked in place with a fingertip twist
- Cables are easily removable with another fingertip twist
- Quick mounting adhesive base does not require through-hole



| Item No.    | Approval | Ø B Bundle    |             | A Ref. |      | Base Depth |      | Bulk Pack Qty |
|-------------|----------|---------------|-------------|--------|------|------------|------|---------------|
|             |          | in            | mm          | in     | mm   | in         | mm   |               |
| KLB-350A-RT | RA       | 0.300 - 0.400 | 7.6 - 10.2  | 1.070  | 27.2 | 0.510      | 13.0 | 1000          |
| KLB-450A-RT | RA       | 0.400 - 0.500 | 10.2 - 12.7 | 1.230  | 31.2 | 0.510      | 13.0 | 1000          |
| KLB-750A-RT | RA       | 0.700 - 0.800 | 17.8 - 20.3 | 1.580  | 40.1 | 0.510      | 13.0 | 1000          |

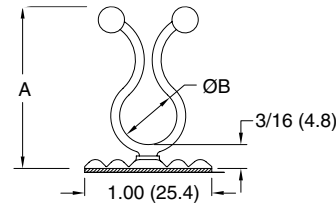
### TLFB Series Twist Lock on Flexible Adhesive Base

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Flexible rubber based adhesive base can be mounted onto contoured surfaces
- Cables are locked into place with a fingertip twist



| Item No.      | Approval | Ø B Bundle    |             | A Ref. |      | Base Depth |      | Bulk Pack Qty |
|---------------|----------|---------------|-------------|--------|------|------------|------|---------------|
|               |          | in            | mm          | in     | mm   | in         | mm   |               |
| TLFB-350-01A1 | RA       | 0.300 - 0.400 | 0.08 - 10.2 | 1.150  | 29.3 | 0.500      | 12.7 | 1000          |
| TLFB-450-01A1 | RA       | 0.400 - 0.500 | 10.2 - 12.7 | 1.270  | 32.3 | 0.500      | 12.7 | 1000          |
| TLFB-750-01A1 | RA       | 0.700 - 0.800 | 17.8 - 20.3 | 1.610  | 40.9 | 0.500      | 12.7 | 1000          |

### TLJ Series Snap In Twist Lock

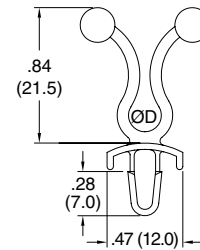


#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling



| Item No.   | Approval | D Ø Bundle  |           | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|------------|----------|-------------|-----------|-----------------|-----|-----------------|-----------|---------------|
|            |          | in          | mm        | in              | mm  | in              | mm        |               |
| TLJ-200-01 | RA       | 0.500-0.600 | 12.7-15.2 | 0.187           | 4.8 | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |

### SKL/SKLO Series Side Entry & 45° Curly Lock



#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- Panel Thickness: .031 - .078 (0.8 - 2.0)

#### Features:

- Gathers and routes wires
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Eases installation in hard to reach places

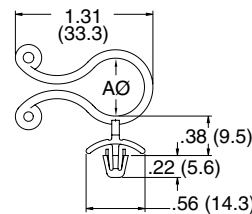


Figure 1

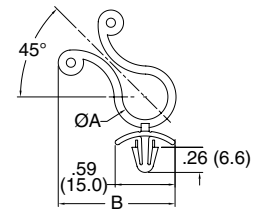


Figure 2

| Item No.    | Approval | Figure | Ø A Bundle    |             | B Ref.       |      | Bulk Pack Qty |
|-------------|----------|--------|---------------|-------------|--------------|------|---------------|
|             |          |        | in            | mm          | in           | mm   |               |
| SKLO-550-01 | RA       | 1      | 0.500 - 0.600 | 12.7 - 15.2 | See Figure 1 |      | 1000          |
| SKL45-250   | RA       | 2      | 0.150 - 0.250 | 3.8 - 6.35  | 0.980        | 24.9 | 1000          |
| SKL45-350   | RA       | 2      | 0.300 - 0.400 | 7.6 - 10.0  | 1.070        | 27.2 | 1000          |
| SKL45-450   | RA       | 2      | 0.400 - 0.470 | 10.0 - 12.0 | 1.120        | 28.4 | 1000          |



# TWIST TIES

## KLH/TLH/TLHE Series Screw Mount Hinged Twist Lock

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Hinged design makes it easier to adjust your wire angles as needed for the application
- Screw mount design for easy and fast assembly

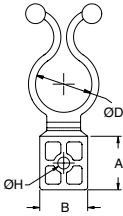


Figure 1

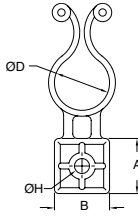


Figure 2



| Item No.      | Approval | Ø D Bundle    |             | Ø H Hole |     | Recommended Screw Size | A    |      | B    |      | Figure | Bulk Pack Qty |
|---------------|----------|---------------|-------------|----------|-----|------------------------|------|------|------|------|--------|---------------|
|               |          | in            | mm          | in       | mm  |                        | in   | mm   | in   | mm   |        |               |
| TLH-800-01    | UL       | 0.750 - 0.850 | 19.0 - 21.6 | 0.160    | 4.1 | #6 or M3               | 0.75 | 19.0 | 0.67 | 17.0 | 1      | 1000          |
| TLH-500-01    | —        | 0.450 - 0.550 | 11.4 - 14.0 | 0.170    | 4.2 | #8 or M4               | 0.56 | 14.2 | 0.55 | 14.0 | 1      | 1000          |
| TLHE-1-750-01 | —        | 0.700 - 0.800 | 17.8 - 20.3 | 0.204    | 5.2 | #10 or M5              | 0.75 | 19.0 | 0.67 | 17.0 | 1      | 1000          |
| KLH-750-01    | UL       | 0.700 - 0.800 | 17.8 - 20.3 | 0.204    | 5.2 | #10 or M5              | 0.75 | 19.0 | 0.75 | 19.0 | 2      | 1000          |

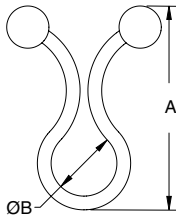
## TL/TT Series Twist Lock

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Smooth ball shaped ends won't cut into wire or cable insulation



| Item No. | Approval | Ø B Bundle    |             | A Ref. |      | Bulk Pack Qty |
|----------|----------|---------------|-------------|--------|------|---------------|
|          |          | in            | mm          | in     | mm   |               |
| TT001A   | —        | 0.150 - 0.190 | 3.8 - 4.8   | 0.85   | 21.6 | 100           |
| TL-250   | UL       | 0.200 - 0.300 | 5.1 - 7.6   | 0.90   | 22.9 | 1000          |
| TL-350   | UL       | 0.300 - 0.400 | 7.6 - 10.2  | 1.03   | 26.1 | 1000          |
| TL-450   | UL       | 0.400 - 0.500 | 10.2 - 12.7 | 1.20   | 30.5 | 1000          |
| TL-600   | UL       | 0.550 - 0.650 | 14.0 - 16.5 | 1.33   | 33.7 | 1000          |
| TL-750   | UL       | 0.700 - 0.800 | 17.8 - 20.3 | 1.55   | 39.4 | 1000          |
| TL-950   | UL       | Max 1.000     | 25.4        | 1.70   | 43.4 | 1000          |
| TL-1125  | UL       | Max 1.187     | 30.2        | 2.19   | 55.6 | 1000          |
| TL-1375  | UL       | Max 1.437     | 36.5        | 2.68   | 68.1 | 1000          |
| TL-1500  | UL       | Max 1.562     | 39.7        | 2.93   | 74.4 | 1000          |
| TL-1750  | UL       | Max 1.812     | 46.0        | 3.45   | 87.6 | 1000          |

## KL Series Curly Lock

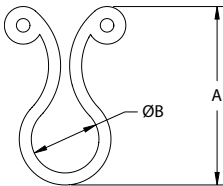


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion



| Item No. | Approval | Ø B Bundle    |             | A Ref. |      | Bulk Pack Qty |
|----------|----------|---------------|-------------|--------|------|---------------|
|          |          | in            | mm          | in     | mm   |               |
| KL-125   | UL       | 0.125 - 0.150 | 3.2 - 3.8   | 0.48   | 12.2 | 1000          |
| KL-200   | UL       | 0.160 - 0.240 | 4.1 - 6.1   | 0.82   | 20.7 | 1000          |
| KL-250   | UL       | 0.200 - 0.300 | 5.1 - 7.6   | 0.91   | 23.0 | 1000          |
| KL-350   | UL       | 0.300 - 0.400 | 7.6 - 10.2  | 1.03   | 26.2 | 1000          |
| KL-450   | UL       | 0.400 - 0.500 | 10.2 - 12.7 | 1.20   | 30.5 | 1000          |
| KL-600   | UL       | 0.550 - 0.650 | 14.0 - 16.5 | 1.25   | 31.8 | 1000          |
| KL-750   | UL       | 0.700 - .0800 | 17.8 - 20.3 | 1.52   | 38.6 | 1000          |
| KL-950   | UL       | 0.900 - 1.000 | 22.9 - 25.4 | 1.75   | 44.5 | 1000          |

TWIST TIES/CABLE CLIPS & CLAMPS



WTLH Series  
Webbed Hinged Twist Lock

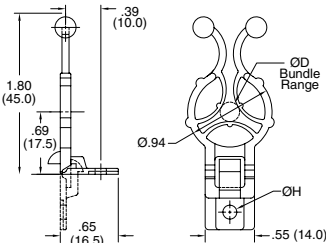


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Once clamp is hinged, it locks into position
- Webbed design provides a positive lock



| Item No.        | Ø Bundle D    |            | Ø H Hole |     | Recommended Screw Size | Bulk Pack Qty |
|-----------------|---------------|------------|----------|-----|------------------------|---------------|
|                 | in            | mm         | in       | mm  |                        |               |
| WTLH90-300-4-01 | 0.140 - 0.480 | 3.6 - 12.2 | 0.130    | 3.3 | #4 or M3               | 500           |
| WTLH90-300-6-01 | 0.140 - 0.480 | 3.6 - 12.2 | 0.150    | 3.8 | #6 or M3.5             | 500           |
| WTLH90300-M4-01 | 0.140 - 0.480 | 3.6 - 12.2 | 0.170    | 4.3 | #8 or M4               | 500           |

DTL Series  
Dual Twist Lock

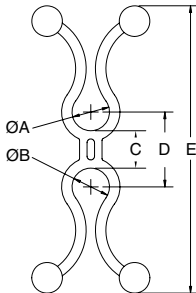


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

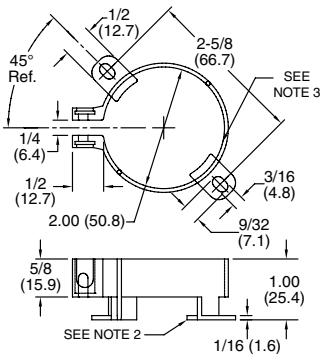
Features:

- Routes and separates two bundles
- Six bundle diameter ranges; from .20" - .80"
- Three spacer lengths; 1/4", 3/4" and 1-1/4"
- Cables are locked in place with a fingertip twist



| Item No.      | Ø A and Ø B Bundle |             | C     |      | D Ref. |      | E Ref. |       | Bulk Pack Qty |
|---------------|--------------------|-------------|-------|------|--------|------|--------|-------|---------------|
|               | in                 | mm          | in    | mm   | in     | mm   | in     | mm    |               |
| DTL2525-4-01  | 0.200 - 0.300      | 5.1 - 7.6   | 0.250 | 6.4  | 0.50   | 12.7 | 1.92   | 48.8  | 500           |
| DTL2525-12-01 | 0.200 - 0.300      | 5.1 - 7.6   | 0.750 | 19.1 | 1.00   | 25.4 | 2.42   | 61.5  | 500           |
| DTL2525-20-01 | 0.200 - 0.300      | 5.1 - 7.6   | 1.250 | 31.8 | 1.50   | 38.1 | 2.92   | 74.2  | 500           |
| DTL3535-4-01  | 0.300 - 0.400      | 7.6 - 10.2  | 0.250 | 6.4  | 0.60   | 15.2 | 2.18   | 55.4  | 500           |
| DTL3535-12-01 | 0.300 - 0.400      | 7.6 - 10.2  | 0.750 | 19.1 | 1.10   | 27.9 | 2.68   | 68.1  | 500           |
| DTL3535-20-01 | 0.300 - 0.400      | 7.6 - 10.2  | 1.250 | 31.8 | 1.60   | 40.6 | 3.18   | 80.8  | 500           |
| DTL4545-4-01  | 0.400 - 0.500      | 10.2 - 12.7 | 0.250 | 6.4  | 0.60   | 15.2 | 2.18   | 55.4  | 500           |
| DTL4545-12-01 | 0.400 - 0.500      | 10.2 - 12.7 | 0.750 | 19.1 | 1.10   | 27.9 | 2.68   | 68.1  | 500           |
| DTL4545-20-01 | 0.400 - 0.500      | 10.2 - 12.7 | 1.250 | 31.8 | 1.60   | 40.6 | 3.18   | 80.8  | 500           |
| DTL5555-4-01  | 0.500 - 0.600      | 12.7 - 15.2 | 0.250 | 6.4  | 0.60   | 15.2 | 2.18   | 55.4  | 500           |
| DTL5555-12-01 | 0.500 - 0.600      | 12.7 - 15.2 | 0.750 | 19.1 | 1.10   | 27.9 | 2.68   | 68.1  | 500           |
| DTL5555-20-01 | 0.500 - 0.600      | 12.7 - 15.2 | 1.250 | 31.8 | 1.60   | 40.6 | 3.18   | 80.8  | 500           |
| DTL6565-4-01  | 0.600 - 0.700      | 15.2 - 17.8 | 0.250 | 6.4  | 0.60   | 15.2 | 2.18   | 55.4  | 500           |
| DTL6565-12-01 | 0.600 - 0.700      | 15.2 - 17.8 | 0.750 | 19.1 | 1.10   | 27.9 | 2.68   | 68.1  | 500           |
| DTL6565-20-01 | 0.600 - 0.700      | 15.2 - 17.8 | 1.250 | 31.8 | 1.60   | 40.6 | 3.18   | 80.8  | 500           |
| DTL7575-4-01  | 0.700 - 0.800      | 17.8 - 20.3 | 0.250 | 6.4  | 1.00   | 25.4 | 3.10   | 78.7  | 500           |
| DTL7575-12-01 | 0.700 - 0.800      | 17.8 - 20.3 | 0.750 | 19.1 | 1.50   | 38.1 | 3.60   | 91.4  | 500           |
| DTL7575-20-01 | 0.700 - 0.800      | 17.8 - 20.3 | 1.250 | 31.8 | 2.00   | 50.8 | 4.10   | 104.1 | 500           |

SCH/SCHS Series  
Standoff Capacitor Holder



Specifications:

- Material: UL94 HB Glass Filled Nylon 6/6
- Color: Black

Optional:

1. Clamping hardware; Screw (S6B) Stainless Steel, Zinc Plating; Quick Nut (QN-6) Spring Steel C1050, Coating: Black Phosphate
2. Spacer to elevate capacitor 3/32 (2.4) from chassis
3. Anti-rotation rib (3 locations)



| Item No. | Description                           | Bulk Pack Qty |
|----------|---------------------------------------|---------------|
| SCHS-2   | w/ Spacer, w/o Hardware (see 1 above) | 100           |
| SCH-2    | w/o Spacer, w/o Hardware              | 100           |
| SCHS-2-H | w/ Spacer, w/ Clamping Hardware       | 100           |
| SCH-2-H  | w/o Spacer, w/ Clamping Hardware      | 100           |



## CABLE CLIPS &amp; CLEATS

## SCC Series

## Standoff Cable Clip Side Entry

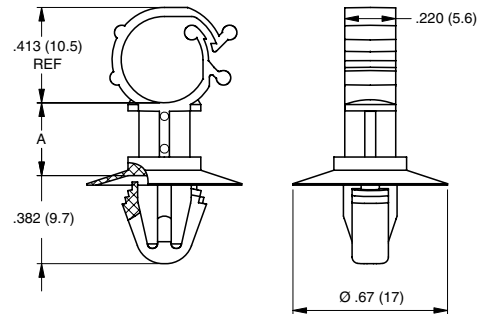


## Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

## Features:

- Different spacer heights to lift cables away from other components
- Cables securely held in place



| Item No.     | A     |      | Ø Mounting Hole |           | Panel Thickness Range |            | Ø Max Bundle |     | Bulk Pack Qty |
|--------------|-------|------|-----------------|-----------|-----------------------|------------|--------------|-----|---------------|
|              | in    | mm   | in              | mm        | in                    | mm         | in           | mm  |               |
| SCC-SE-4-19  | 0.157 | 4.0  | 0.256 - 0.276   | 6.5 - 7.0 | 0.031 - 0.049         | 0.8 - 1.25 | 0.354        | 9.0 | 1000          |
| SCC-SE-8-19  | 0.315 | 8.0  | 0.256 - 0.276   | 6.5 - 7.0 | 0.031 - 0.049         | 0.8 - 1.25 | 0.354        | 9.0 | 1000          |
| SCC-SE-10-19 | 0.394 | 10.0 | 0.256 - 0.276   | 6.5 - 7.0 | 0.031 - 0.049         | 0.8 - 1.25 | 0.354        | 9.0 | 1000          |
| SCC-SE-12-19 | 0.472 | 12.0 | 0.256 - 0.276   | 6.5 - 7.0 | 0.031 - 0.049         | 0.8 - 1.25 | 0.354        | 9.0 | 1000          |

## SCCBH Series

## Standoff Cable Clip Side Entry

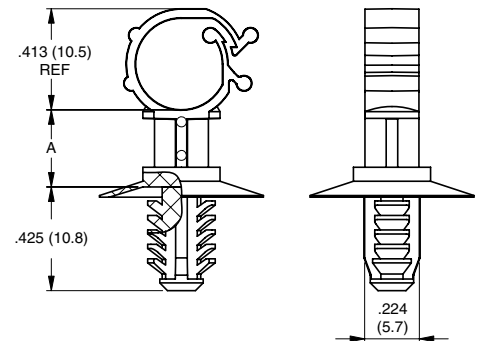


## Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

## Features:

- Different spacer heights to lift cables away from other components
- Cables securely held in place



| Item No.       | A     |      | Ø Mounting Hole |     | Min. Panel Thickness |     | A     |      | Ø Max Bundle |     | Bulk Pack Qty |
|----------------|-------|------|-----------------|-----|----------------------|-----|-------|------|--------------|-----|---------------|
|                | in    | mm   | in              | mm  | in                   | mm  | in    | mm   | in           | mm  |               |
| SCCBH-SE-4-19  | 0.157 | 4.0  | 0.256           | 6.5 | 0.028                | 0.7 | 0.157 | 4.0  | 0.354        | 9.0 | 1000          |
| SCCBH-SE-8-19  | 0.315 | 8.0  | 0.256           | 6.5 | 0.028                | 0.7 | 0.315 | 8.0  | 0.354        | 9.0 | 1000          |
| SCCBH-SE-10-10 | 0.394 | 10.0 | 0.256           | 6.5 | 0.028                | 0.7 | 0.394 | 10.0 | 0.354        | 9.0 | 1000          |
| SCCBH-SE-12-19 | 0.472 | 12.0 | 0.256           | 6.5 | 0.028                | 0.8 | 0.472 | 12.0 | 0.354        | 9.0 | 1000          |

## Cable Cleats



## Specifications:

- Material: Low-Density Polyethylene
- Color: Black

## Features:

- Offers a high-strength cable restraint
- Secures cables from various forces and provides strain relief
- Corrosion resistant

| Item No. | Size | Max. Cable Size |      | For Bolt Size |     | Bulk Pack Qty |
|----------|------|-----------------|------|---------------|-----|---------------|
|          |      | in              | mm   | in            | mm  |               |
| 12875    | 3    | 0.299           | 7.6  | 1/4           | M6  | 100           |
| 12876    | 4    | 0.398           | 10.0 | 1/4           | M6  | 100           |
| 12877    | 5    | 0.500           | 12.7 | 1/4           | M6  | 100           |
| 12848    | 6    | 0.598           | 15.2 | 1/4           | M6  | 100           |
| 12878    | 7    | 0.701           | 17.8 | 1/4           | M6  | 100           |
| 12879    | 8    | 0.799           | 20.3 | 1/4           | M6  | 100           |
| 12880    | 9    | 0.898           | 22.8 | 1/4           | M6  | 100           |
| 12881    | 10   | 1.000           | 25.4 | 1/4           | M6  | 100           |
| 12092    | 11   | 1.098           | 27.9 | 3/8           | M10 | 50            |
| 12882    | 12   | 1.181           | 30.0 | 3/8           | M10 | 50            |
| 12883    | 14   | 1.402           | 35.6 | 3/8           | M10 | 50            |
| 12884    | 16   | 1.598           | 40.6 | 3/8           | M10 | 50            |
| 12885    | 18   | 1.799           | 45.7 | 3/8           | M10 | 50            |
| 12886    | 20   | 1.984           | 50.4 | 3/8           | M10 | 50            |



XRC Series  
Cable Clips for Extruded Metal Rails

Specifications:

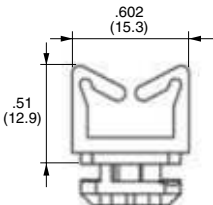
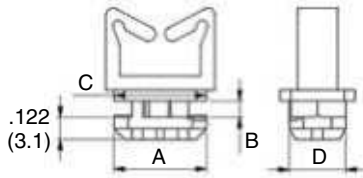
- Material: UL94 V-2 Glass Filled Nylon 6/6
- Color: Natural

Features:

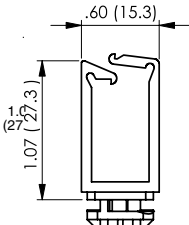
- Several clip styles available
- Available for several different extruded rail sizes
- Two types of mounting; quarter turn or push in



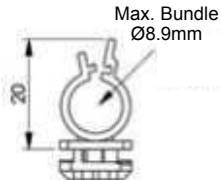
Extruded Rail



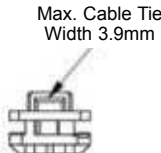
Type 1



Type 2



Type 3



Type 4

| Item No.    | Type | A     |      | B     |      | C     |      | D     |     | Extruded Rail Size | Bulk Pack Qty |
|-------------|------|-------|------|-------|------|-------|------|-------|-----|--------------------|---------------|
|             |      | in    | mm   | in    | mm   | in    | mm   | in    | mm  |                    |               |
| XRC2-WS101  | 1    | 0.394 | 10.0 | 0.063 | 1.6  | 0.394 | 10.0 | 0.228 | 5.8 | 20 x 20            | 1000          |
| XRC3-WS101  | 1    | 0.512 | 13.0 | 0.091 | 2.3  | 0.512 | 13.0 | 0.311 | 7.9 | 30 x 30            | 1000          |
| XRC4-WS101  | 1    | 0.630 | 16.0 | 0.242 | 6.2  | 0.630 | 16.0 | 0.386 | 9.8 | 40 x 40            | 1000          |
| XRC2-LWS01  | 2    | 0.394 | 10.0 | 0.063 | 1.6  | 0.394 | 10.0 | 0.228 | 5.8 | 20 x 20            | 1000          |
| XRC3-LWS01  | 2    | 0.512 | 13.0 | 0.091 | 2.3  | 0.512 | 13.0 | 0.311 | 7.9 | 30 x 30            | 1000          |
| XRC4-LWS01  | 2    | 0.630 | 16.0 | 0.242 | 6.2  | 0.630 | 16.0 | 0.386 | 9.8 | 40 x 40            | 1000          |
| XRC2-WSLT01 | 3    | 0.394 | 10.0 | 0.063 | 1.6  | 0.394 | 10.0 | 0.228 | 5.8 | 20 x 20            | 1000          |
| XRC3-WSLT01 | 3    | 0.512 | 13.0 | 0.091 | 2.3  | 0.512 | 13.0 | 0.311 | 7.9 | 30 x 30            | 1000          |
| XRC4-WSLT01 | 3    | 0.630 | 16.0 | 0.242 | 6.2  | 0.630 | 16.0 | 0.386 | 9.8 | 40 x 40            | 1000          |
| XRC2-TH01   | 4    | 0.394 | 10.0 | 0.063 | 1.6  | 0.394 | 10.0 | 0.228 | 5.8 | 20 x 20            | 1000          |
| XRC3-TH01   | 4    | 0.512 | 13.0 | 0.091 | 2.3  | 0.512 | 13.0 | 0.311 | 7.9 | 30 x 30            | 1000          |
| XRC4-TH01   | 4    | 0.630 | 16.0 | 0.242 | 6.15 | 0.630 | 16.0 | 0.386 | 9.8 | 40 x 40            | 1000          |

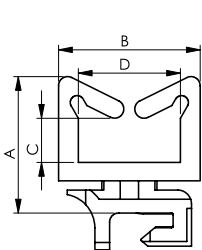
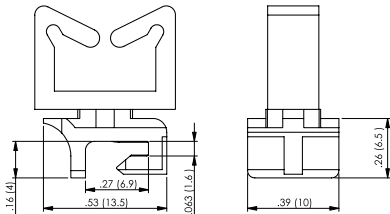
DRC Series  
DIN Rail Wire Saddles

Specifications:

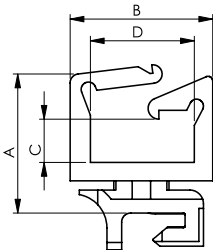
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

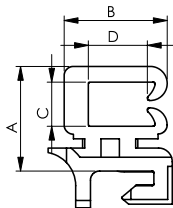
- For use in all common DIN rail profiles
- Can be retrofitted to current installations



Type 1



Type 2



Type 3

| Item No.   | Type | A     |      | B     |      | C     |     | D     |      | Din Rail Style  | Bulk Pack Qty |
|------------|------|-------|------|-------|------|-------|-----|-------|------|-----------------|---------------|
|            |      | in    | mm   | in    | mm   | in    | mm  | in    | mm   |                 |               |
| DRCC-WS01  | 1    | 0.583 | 14.8 | 0.606 | 15.4 | 0.189 | 4.8 | 0.437 | 11.1 | C-Profile       | 1000          |
| DRCC-LWS01 | 2    | 0.594 | 15.1 | 0.610 | 15.5 | 0.142 | 3.6 | 0.445 | 11.3 | C-Profile       | 1000          |
| DRCC-SEC01 | 3    | 0.449 | 11.4 | 0.441 | 11.2 | 0.189 | 4.8 | 0.252 | 6.4  | C-Profile       | 1000          |
| DRCT-WS01  | 1    | 0.583 | 14.8 | 0.606 | 15.4 | 0.189 | 4.8 | 0.437 | 11.1 | Top Hat Profile | 1000          |
| DRCT-LWS01 | 2    | 0.594 | 15.1 | 0.610 | 15.5 | 0.142 | 3.6 | 0.445 | 11.3 | Top Hat Profile | 1000          |
| DRCT-SEC01 | 3    | 0.449 | 11.4 | 0.441 | 11.2 | 0.189 | 4.8 | 0.252 | 6.4  | Top Hat Profile | 1000          |
| DRCG-WS01  | 1    | 0.583 | 14.8 | 0.606 | 15.4 | 0.189 | 4.8 | 0.437 | 11.1 | G-Profile       | 1000          |
| DRCG-LWS01 | 2    | 0.594 | 15.1 | 0.610 | 15.5 | 0.142 | 3.6 | 0.445 | 11.3 | G-Profile       | 1000          |
| DRCG-SEC01 | 3    | 0.449 | 11.4 | 0.441 | 11.2 | 0.189 | 4.8 | 0.252 | 6.4  | G-Profile       | 1000          |



WIRE SADDLES

WS-SR/LWS-SR Series  
Wire Saddle - Snap Rivet Mount

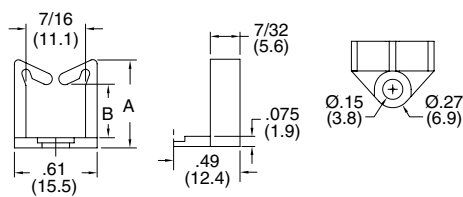


Figure 1

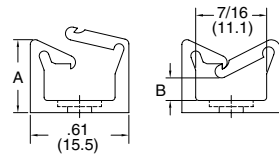


Figure 2



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

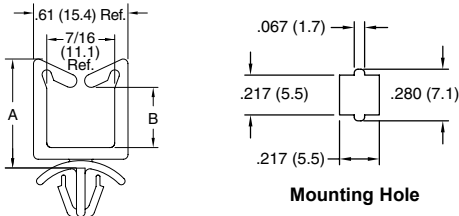
Features:

- Designed to mount easily on chassis with plastic SR rivet (See Table) or a #6 screw
- Allows mounting to a wide range of panel thicknesses; up to 0.219" thick

| Use Essentra Rivet Number | Chassis Thickness Range |           |
|---------------------------|-------------------------|-----------|
|                           | in                      | mm        |
| SR-3535                   | 0.010 - 0.046           | 0.3 - 1.2 |
| SR-3545                   | 0.046 - 0.081           | 1.2 - 2.1 |
| SR-3550                   | 0.069 - 0.105           | 1.8 - 2.7 |
| SR-3555                   | 0.081 - 0.120           | 2.1 - 3.7 |
| SR-3560                   | 0.109 - 0.144           | 2.8 - 3.7 |
| SR-3570                   | 0.140 - 0.180           | 3.6 - 4.6 |
| SR-3580                   | 0.180 - 0.219           | 4.6 - 5.6 |

| Item No.    | Figure | A    |      | B    |      | Ø Mounting Hole |           | Bulk Pack Qty |
|-------------|--------|------|------|------|------|-----------------|-----------|---------------|
|             |        | in   | mm   | in   | mm   | in              | mm        |               |
| WS-SR-1-01  | 1      | 0.45 | 11.4 | 0.17 | 4.3  | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| LWS-SR-1-01 | 2      | 0.45 | 11.4 | 0.14 | 3.6  | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| WS-SR-2-01  | 1      | 0.64 | 16.3 | 0.36 | 9.1  | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| LWS-SR-2-01 | 2      | 0.64 | 16.3 | 0.34 | 8.6  | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| WS-SR-3-01  | 1      | 1.00 | 25.4 | 0.73 | 18.5 | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| LWS-SR-3-01 | 2      | 1.00 | 25.4 | 0.72 | 18.3 | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| WS-SR-4-01  | 1      | 1.31 | 33.3 | 1.04 | 26.4 | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |
| LWS-SR-4-01 | 2      | 1.31 | 33.3 | 1.00 | 25.4 | 0.142 - 0.146   | 3.6 - 3.7 | 1000          |

WS-SH Series  
Wire Saddle - Square Hole Mount



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Mounts into a square hole to prevent rotation

| Item No.   |            |          | Panel Thickness |           | A Ref. |      | B Ref. |      | Depth |     | Bulk Pack Qty |
|------------|------------|----------|-----------------|-----------|--------|------|--------|------|-------|-----|---------------|
| UL94 V-2   | UL94 V-0   | Approval | in              | mm        | in     | mm   | in     | mm   | in    | mm  |               |
| WS-SH-1-01 | WS-SH-1-19 | UL       | 0.031 - 0.078   | 0.8 - 2.0 | 0.51   | 13.0 | 0.19   | 4.8  | 0.219 | 5.6 | 1000          |
| WS-SH-2-01 | WS-SH-2-19 | UL       | 0.031 - 0.078   | 0.8 - 2.0 | 0.70   | 17.8 | 0.39   | 10.0 | 0.219 | 5.6 | 1000          |
| WS-SH-3-01 | WS-SH-3-19 | UL       | 0.031 - 0.078   | 0.8 - 2.0 | 1.06   | 26.9 | 0.75   | 19.1 | 0.219 | 5.6 | 1000          |
| WS-SH-4-01 | WS-SH-4-19 | UL       | 0.031 - 0.078   | 0.8 - 2.0 | 1.37   | 34.8 | 1.07   | 27.2 | 0.219 | 5.6 | 1000          |

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WS-SE Series  
Wire Saddle - Side Entry

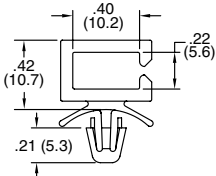
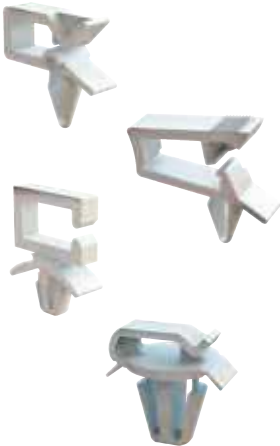


Figure 1

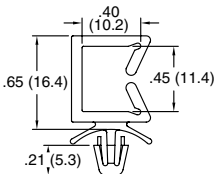


Figure 2

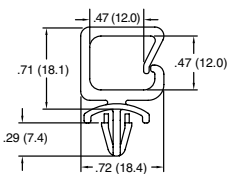


Figure 3

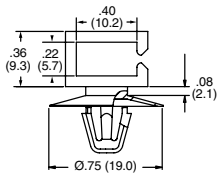


Figure 4

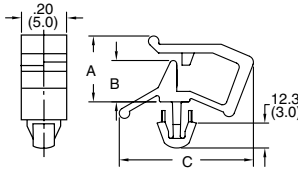


Figure 5

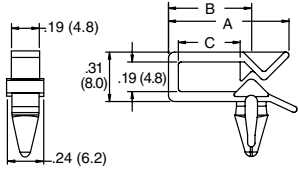


Figure 6

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes single or groups of wires and cables
- Side entry provides low height where clearance is a problem

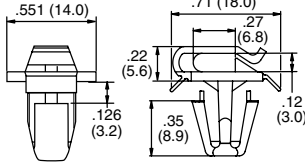


Figure 7

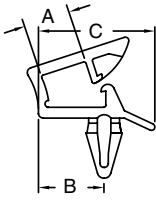


Figure 8

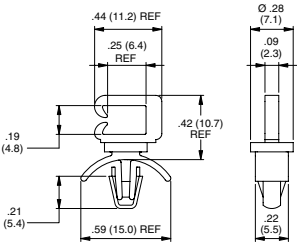
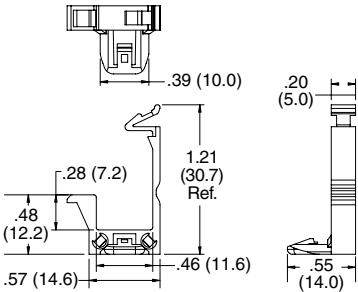


Figure 9

| Item No.     |              | Approval | Figure | A Ref. |      | B    |      | C Ref. |      | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|--------------|--------------|----------|--------|--------|------|------|------|--------|------|-----------------|-----|-----------------|-----------|---------------|
| UL94 V-2     | UL94 V-0     |          |        | in     | mm   | in   | mm   | in     | mm   | in              | mm  | in              | mm        |               |
| WS-SE-A-1-01 | WS-SE-A-1-19 | —        | 1      | —      | —    | —    | —    | —      | —    | 0.187           | 4.8 | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |
| WS-SE-A-2-01 | WS-SE-A-2-19 | —        | 2      | —      | —    | —    | —    | —      | —    | 0.187           | 4.8 | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |
| WS-SE-A-3-01 | WS-SE-A-3-19 | —        | 3      | —      | —    | —    | —    | —      | —    | 0.187           | 4.8 | 0.024 - 0.071   | 0.6 - 1.8 | 1000          |
| WS-SE-A-4-01 | WS-SE-A-4-19 | —        | 4      | —      | —    | —    | —    | —      | —    | 0.256           | 6.5 | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |
| WS-SE1-1-01  | —            | UL       | 5      | 0.19   | 4.8  | 0.09 | 2.4  | 0.50   | 12.7 | 0.138           | 3.5 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| WS-SE1-2-01  | —            | UL       | 5      | 0.26   | 6.7  | 0.16 | 4.2  | 0.59   | 15.1 | 0.138           | 3.5 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| WS-SE1-3-01  | —            | UL       | 5      | 0.34   | 8.5  | 0.23 | 5.7  | 0.81   | 20.3 | 0.138           | 3.5 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| WS-SE2-1-01  | —            | UL       | 6      | 0.65   | 16.6 | 0.41 | 10.5 | 0.28   | 7.1  | 0.187           | 4.8 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| WS-SE2-2-01  | —            | UL       | 6      | 0.77   | 19.5 | 0.53 | 13.4 | 0.39   | 10.0 | 0.187           | 4.8 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| WS-SE3-1-01  | —            | —        | 7      | —      | —    | —    | —    | —      | —    | 0.314           | 8.0 | 0.062 - 0.102   | 1.6 - 2.6 | 1000          |
| LWS-SE2-1-01 | —            | UL       | 8      | 0.27   | 6.9  | 0.38 | 9.7  | 0.67   | 17.0 | 0.187           | 4.8 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| LWS-SE2-2-01 | —            | UL       | 8      | 0.40   | 10.2 | 0.53 | 13.5 | 0.8    | 20.8 | 0.187           | 4.8 | 0.020 - 0.063   | 0.5 - 1.6 | 1000          |
| WS-SE-C-1-19 |              | —        | 9      | —      | —    | —    | —    | —      | —    | 0.187           | 4.8 | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |

SMWSLT Series  
Side Mount Wire Saddle

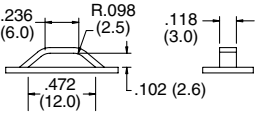


Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- No protrusion through the chassis
- No risk of rotation
- Easy to install
- Removable by depressing locking tab
- Cables are locked in place yet easily removed



Mounting Dimensions

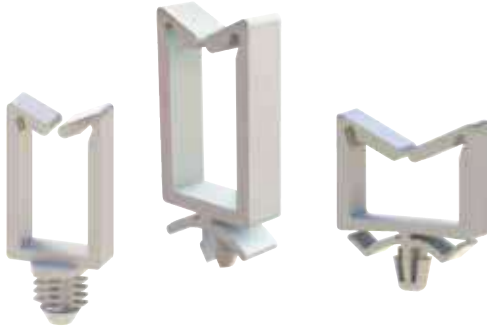


| Item No.    | Bulk Pack Qty |
|-------------|---------------|
| SMWSLT-1-19 | 1000          |



## WIRE SADDLES

### WS/WWS/WSBH Series Wire Saddle

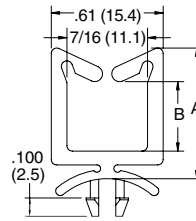
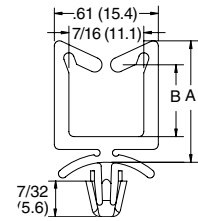
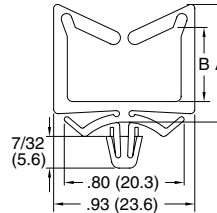
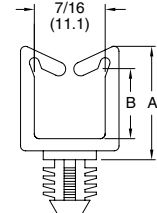


#### Specifications:

- Material: Nylon 6/6
- Color: Natural
- Depth: 0.22 (5.6)

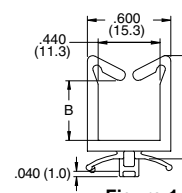
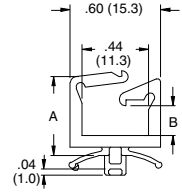
#### Features:

- Gathers and routes cables or wires
- WSBH parts are designed to mount in blind holes

**Figure 1****Figure 2****Figure 3****Figure 4**

| Item No.    |             | Approval | Figure | A Ref. |      | B Ref. |      | Ø Mounting Hole |     | Panel Thickness |      | Bulk Pack Qty |
|-------------|-------------|----------|--------|--------|------|--------|------|-----------------|-----|-----------------|------|---------------|
| UL94V-2     | UL94 V-0    |          |        | in     | mm   | in     | mm   | in              | mm  | in              | mm   |               |
| WS-1-01     | WS-1-19     | UL       | 1      | 0.52   | 13.2 | 0.19   | 4.8  | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-1-01   | WS-A-1-19   | UL       | 2      | 0.52   | 13.2 | 0.19   | 4.8  | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WSBH-1-01   | —           | UL       | 4      | 0.52   | 13.2 | 0.19   | 4.8  | 0.312           | 7.9 | 0.250           | 6.4  | 1000          |
| WS-2-01     | WS-2-19     | UL       | 1      | 0.71   | 18.0 | 0.38   | 9.7  | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-2-01   | WS-A-2-19   | UL       | 2      | 0.71   | 18.0 | 0.38   | 9.7  | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-2-1-01 | WS-A-2-1-19 | UL       | 2      | 0.71   | 18.0 | 0.38   | 9.7  | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-2-2-01 | WS-A-2-2-19 | UL       | 2      | 0.71   | 18.0 | 0.38   | 9.7  | 0.187           | 4.8 | 0.125           | 3.2  | 1000          |
| WSBH-2-01   | —           | UL       | 4      | 0.71   | 18.0 | 0.38   | 9.7  | 0.312           | 7.9 | 0.250           | 6.4  | 1000          |
| WWS-A-2-01  | WWS-A-2-19  | UL       | 3      | 0.77   | 19.6 | 0.50   | 12.7 | 0.187           | 4.8 | 0.047           | 1.19 | 1000          |
| WS-3-01     | WS-3-19     | UL       | 1      | 1.07   | 27.2 | 0.74   | 18.8 | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-3-01   | WS-A-3-19   | UL       | 2      | 1.07   | 27.2 | 0.74   | 18.8 | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-2-3-01 | WS-A-2-3-19 | UL       | 2      | 1.07   | 27.2 | 0.74   | 18.8 | 0.187           | 4.8 | 0.125           | 3.2  | 1000          |
| WSBH-3-01   | —           | UL       | 4      | 1.07   | 27.2 | 0.74   | 18.8 | 0.312           | 7.9 | 0.250           | 6.4  | 1000          |
| WWS-A-3-01  | WWS-A-3-19  | UL       | 3      | 1.12   | 28.5 | 0.85   | 21.6 | 0.187           | 4.8 | 0.047           | 1.19 | 1000          |
| WS-4-01     | WS-4-19     | UL       | 1      | 1.38   | 35.0 | 1.05   | 26.7 | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-4-01   | WS-A-4-19   | UL       | 2      | 1.38   | 35.0 | 1.05   | 26.7 | 0.187           | 4.8 | 0.062           | 1.6  | 1000          |
| WS-A-2-4-01 | WS-A-2-4-19 | UL       | 2      | 1.38   | 35.0 | 1.05   | 26.7 | 0.187           | 4.8 | 0.125           | 3.2  | 1000          |
| WSBH-4-01   | —           | UL       | 4      | 1.38   | 35.0 | 1.05   | 26.7 | 0.312           | 7.9 | 0.250           | 6.4  | 1000          |

### WS-9/LWS-9 Series Quarter-Turn Wire Saddle

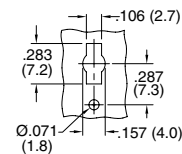
**Figure 1****Figure 2**

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Depth: 0.22 (5.6)

#### Features:

- Easily inserted and removed by turning 90°
- Low protrusion under board, only 1mm
- Available in locking and non-locking styles

**Mounting Hole  
Detail**

| Item No.   |            | Figure | A Ref. |      | B Ref. |      | Panel Thickness |           | Bulk Pack Qty |
|------------|------------|--------|--------|------|--------|------|-----------------|-----------|---------------|
| WS-9-1-01  | WS-9-2-01  |        | in     | mm   | in     | mm   | in              | mm        |               |
| WS-9-1-01  | WS-9-2-01  | 1      | 0.51   | 13.0 | 0.19   | 4.8  | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| WS-9-3-01  | WS-9-4-01  | 1      | 1.06   | 26.9 | 0.75   | 19.1 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| WS-9-1-01  | WS-9-2-01  | 2      | 0.51   | 13.0 | 0.15   | 3.8  | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| LWS-9-2-01 | LWS-9-3-01 | 2      | 0.70   | 17.8 | 0.39   | 9.8  | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| LWS-9-3-01 | LWS-9-4-01 | 2      | 1.06   | 26.9 | 0.75   | 19.1 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| LWS-9-1-01 | LWS-9-2-01 | 2      | 1.37   | 34.8 | 1.07   | 27.2 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |

## WIRE SADDLES

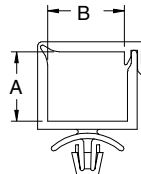

**LWS/WSLT Series**  
**Locking Wire/Cable Saddle**


Figure 1

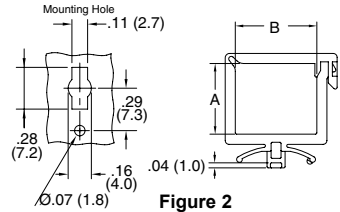


Figure 2

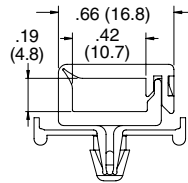


Figure 3

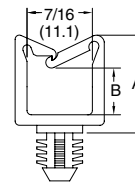


Figure 4

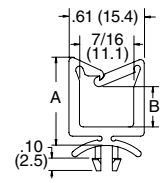


Figure 5

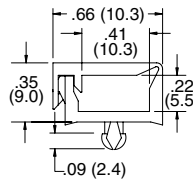


Figure 7

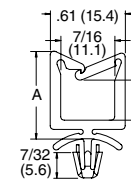


Figure 8

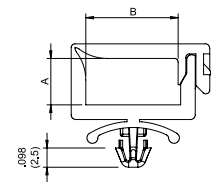


Figure 9

## Specifications:

- Material: Nylon 6/6
- Color: Natural

## Features:

- Cables are locked in place yet easily removable
- WSLT-9 includes a quarter-turn base
- WSLTRA has a releasable arrow-head for easy removal

| Item No.        |                 | Approval | Figure | A            |      | B     |      | Ø Mounting Hole          |     | Panel Thickness |            | Bulk Pack Qty |
|-----------------|-----------------|----------|--------|--------------|------|-------|------|--------------------------|-----|-----------------|------------|---------------|
| UL94 V-2        | UL94 V-0        |          |        | in           | mm   | in    | mm   | in                       | mm  | in              | mm         |               |
| • WSLC-1-01     | —               | —        | 9      | 0.079        | 6.0  | 0.236 | 6.0  | 0.138                    | 3.5 | 0.031 - 0.087   | 0.8 - 2.2  | 1000          |
| WSLT-3.5-2-1-01 | WSLT-3.5-2-1-19 | UL       | 1      | 0.140        | 3.4  | 0.530 | 13.5 | 0.138                    | 3.5 | 0.031 - 0.078   | 0.8 - 2.0  | 1000          |
| WSLT-02-1-01    | WSLT-02-1-19    | UL       | 1      | 0.140        | 3.4  | 0.530 | 13.5 | 0.187                    | 4.8 | 0.031 - 0.078   | 0.8 - 1.98 | 1000          |
| WSLT-9-02-1-01  | —               | —        | 2      | 0.140        | 3.6  | 0.530 | 13.5 | See Mounting Hole Detail |     | 0.031 - 0.063   | 0.8 - 1.6  | 1000          |
| • WSLC-2-01     | —               | —        | 9      | 0.157        | 4.0  | 0.236 | 6.0  | 0.138                    | 3.5 | 0.031 - 0.087   | 0.8 - 2.2  | 1000          |
| • WSLC-3-01     | —               | —        | 9      | 0.157        | 4.0  | 0.354 | 9.0  | 0.138                    | 3.5 | 0.031 - 0.087   | 0.8 - 2.2  | 1000          |
| • WSLC-5-01     | —               | —        | 9      | 0.157        | 4.0  | 0.472 | 12.0 | 0.138                    | 3.5 | 0.031 - 0.087   | 0.8 - 2.2  | 1000          |
| WSLT-01A-01     | WSLT-01A-19     | UL       | 1      | 0.190        | 4.8  | 0.420 | 10.7 | 0.187                    | 4.8 | 0.031 - 0.078   | 0.8 - 1.98 | 1000          |
| WSLT-9-01A-01   | —               | —        | 2      | 0.190        | 4.8  | 0.420 | 10.7 | See Mounting Hole Detail |     | 0.031 - 0.063   | 0.8 - 1.6  | 1000          |
| • WSLC-4-01     | —               | —        | 9      | 0.236        | 6.0  | 0.354 | 9.0  | 0.138                    | 3.5 | 0.031 - 0.087   | 0.8 - 2.2  | 1000          |
| • WSLC-6-01     | —               | —        | 9      | 0.236        | 6.0  | 0.472 | 12.0 | 0.138                    | 3.5 | 0.031 - 0.087   | 0.8 - 2.2  | 1000          |
| WSLT-01-2-01    | WSLT-01-2-19    | UL       | 1      | 0.350        | 8.8  | 0.420 | 10.7 | 0.187                    | 4.8 | 0.031 - 0.078   | 0.8 - 1.98 | 1000          |
| WSLT-9-01-2-01  | —               | —        | 2      | 0.360        | 9.1  | 0.420 | 10.7 | See Mounting Hole Detail |     | 0.031 - 0.063   | 0.8 - 1.6  | 1000          |
| WSLT-02A-01     | WSLT-02A-19     | UL       | 1      | 0.390        | 10.0 | 0.640 | 16.3 | 0.187                    | 4.8 | 0.031 - 0.078   | 0.8 - 1.98 | 1000          |
| WSLT-9-02A-1-01 | —               | —        | 2      | 0.390        | 10.0 | 0.640 | 16.3 | See Mounting Hole Detail |     | 0.031 - 0.063   | 0.8 - 1.6  | 1000          |
| LWS-1-01        | LWS-1-19        | UL       | 4      | 0.520        | 13.2 | 0.140 | 3.6  | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWSBH-1-01      | —               | UL       | 5      | 0.520        | 13.2 | 0.140 | 3.6  | 0.312                    | 7.9 | 0.250           | 6.4        | 1000          |
| LWS-A-1-01      | LWS-A-1-19      | UL       | 8      | 0.520        | 13.2 | 0.140 | 3.6  | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWS-A-2-1-01    | LWS-A-2-1-19    | UL       | 8      | 0.520        | 13.2 | 0.140 | 3.6  | 0.187                    | 4.8 | 0.125           | 3.2        | 1000          |
| WSLT-03-2-01    | WSLT-03-2-19    | UL       | 1      | 0.550        | 14.1 | 0.640 | 16.3 | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| WSLT-9-03-2-01  | —               | —        | 2      | 0.560        | 14.1 | 0.640 | 16.3 | See Mounting Hole Detail |     | 0.031 - 0.063   | 0.8 - 1.6  | 1000          |
| LWS-2-01        | LWS-2-19        | UL       | 4      | 0.710        | 18.0 | 0.330 | 8.4  | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWSBH-2-01      | —               | UL       | 5      | 0.710        | 18.0 | 0.330 | 8.4  | 0.312                    | 7.9 | 0.250           | 6.4        | 1000          |
| LWS-A-2-01      | LWS-A-2-19      | UL       | 8      | 0.710        | 18.0 | 0.330 | 8.4  | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWS-A-2-2-01    | LWS-A-2-2-19    | UL       | 8      | 0.710        | 18.0 | 0.330 | 8.4  | 0.187                    | 4.8 | 0.125           | 3.2        | 1000          |
| WSLT-03-3-01    | WSLT-03-3-19    | UL       | 1      | 0.850        | 21.7 | 0.710 | 18.0 | 0.187                    | 4.8 | 0.031 - 0.078   | 0.8 - 1.98 | 1000          |
| WSLT-9-03-3-01  | —               | —        | 2      | 0.850        | 21.7 | 0.710 | 18.0 | See Mounting Hole Detail |     | 0.031 - 0.063   | 0.8 - 1.6  | 1000          |
| WSLTRA-1-01     | —               | —        | 3      | See Figure 3 |      |       |      | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWS-3-01        | LWS-3-19        | UL       | 4      | 1.070        | 27.2 | 0.690 | 17.5 | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWSBH-3-01      | —               | UL       | 5      | 1.070        | 27.2 | 0.690 | 17.5 | 0.312                    | 7.9 | 0.250           | 6.4        | 1000          |
| LWS-A-3-01      | LWS-A-3-19      | UL       | 8      | 1.070        | 27.2 | 0.690 | 17.5 | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWS-A-2-3-01    | LWS-A-2-3-19    | UL       | 8      | 1.070        | 27.2 | 0.690 | 17.5 | 0.187                    | 4.8 | 0.125           | 3.2        | 1000          |
| LWS-4-01        | LWS-4-19        | UL       | 4      | 1.380        | 35.0 | 1.000 | 25.4 | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWSBH-4-01      | —               | UL       | 5      | 1.380        | 35.0 | 1.000 | 25.4 | 0.312                    | 7.9 | 0.250           | 6.4        | 1000          |
| WSLT-T-01A-19   | —               | —        | 7      | See Figure 7 |      |       |      | 0.118                    | 3.0 | 0.065           | 1.7        | 1000          |
| LWS-A-4-01      | LWS-A-4-19      | UL       | 8      | 1.380        | 35.0 | 1.000 | 25.4 | 0.187                    | 4.8 | 0.062           | 1.6        | 1000          |
| LWS-A-2-4-01    | LWS-A-2-4-19    | UL       | 8      | 1.380        | 35.0 | 1.000 | 25.4 | 0.187                    | 4.8 | 0.125           | 3.2        | 1000          |



## WIRE SADDLES

## WWSB Series

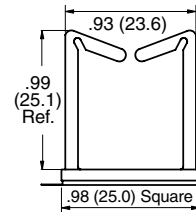
## Wire Saddle on Adhesive Base

## Specifications:

- Material: UL94 HB Nylon 6/6
- Color: Natural

## Features:

- No through-hole required
- Large capacity



| Item No.       | Bulk Pack Qty |
|----------------|---------------|
| WWSB-3-148A-RT | 500           |

## MWSEB/WSB/MWSB/WS-SE-B Series

## Wire Saddle on Adhesive Base

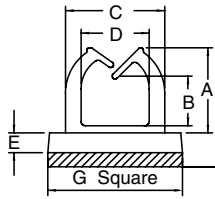
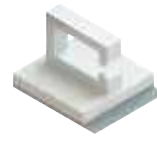


Figure 1

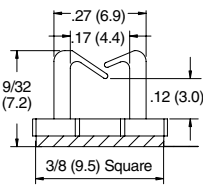


Figure 2

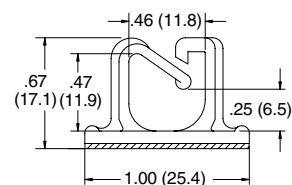


Figure 3

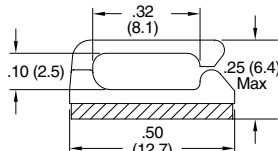


Figure 4

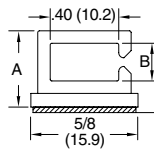


Figure 5

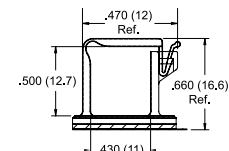


Figure 6

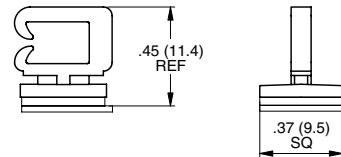


Figure 7

## Specifications:

- Material: Nylon 6/6
- Color: Natural

## Features:

- Self adhesive wire saddle is designed to support lightweight wire bundles
- Small profile design is ideal for routing fiber

| Item No.        |                 | Approval | Figure | A Ref. |      | B Ref. |      | C Ref. |      | D Ref. |     | E Ref. |     | G Ref. |      | Depth      |      | Bulk Pack Qty |
|-----------------|-----------------|----------|--------|--------|------|--------|------|--------|------|--------|-----|--------|-----|--------|------|------------|------|---------------|
| UL94 V-2        | UL94 V-0        |          |        | in     | mm   | in     | mm   | in     | mm   | in     | mm  | in     | mm  | in     | mm   | in         | mm   |               |
| MWSEB-1-01A-RT  | MWSEB-1-19A-RT  | UL       | 1      | 0.16   | 4.0  | 0.05   | 1.3  | 0.28   | 7.0  | 0.19   | 4.8 | 0.06   | 1.6 | 0.37   | 9.5  | See Fig. 1 | 1000 |               |
| MWSEB-2-01A-RT  | MWSEB-2-19A-RT  | UL       | 1      | 0.24   | 6.0  | 0.13   | 3.3  | 0.28   | 7.0  | 0.19   | 4.8 | 0.06   | 1.6 | 0.37   | 9.5  | See Fig. 1 | 1000 |               |
| MWSEB-3-01A-RT  | MWSEB-3-19A-RT  | UL       | 1      | 0.29   | 7.3  | 0.12   | 3.0  | 0.35   | 9.0  | 0.26   | 6.6 | 0.08   | 2.0 | 0.50   | 12.7 | See Fig. 1 | 1000 |               |
| MWSEB-4-01A-RT  | MWSEB-4-19A-RT  | UL       | 1      | 0.36   | 9.2  | 0.19   | 4.8  | 0.43   | 10.8 | 0.32   | 8.0 | 0.08   | 2.0 | 0.50   | 12.7 | See Fig. 1 | 1000 |               |
| MWSEB-5-01A-RT  | MWSEB-5-19A-RT  | UL       | 1      | 0.44   | 11.2 | 0.23   | 5.8  | 0.47   | 11.9 | 0.36   | 9.1 | 0.08   | 2.0 | 0.50   | 12.7 | See Fig. 1 | 1000 |               |
| MWSEB-6-01A-RT  | MWSEB-6-19A-RT  | UL       | 1      | 0.51   | 13.0 | 0.33   | 8.4  | 0.47   | 12.0 | 0.36   | 9.2 | 0.08   | 2.0 | 0.50   | 12.7 | See Fig. 1 | 1000 |               |
| MWSB-1-01A-RT   | MWSB-1-19A-RT   | UL       | 2      | —      | —    | —      | —    | —      | —    | —      | —   | —      | —   | —      | —    | See Fig. 2 | 1000 |               |
| WSB-2-01A-RT    | —               | UL       | 3      | —      | —    | —      | —    | —      | —    | —      | —   | —      | —   | —      | —    | 0.480      | 12.1 | 1000          |
| MWSSEB-1-01A-RT | MWSSEB-1-19A-RT | UL       | 4      | —      | —    | —      | —    | —      | —    | —      | —   | —      | —   | —      | —    | 0.375      | 9.5  | 1000          |
| MWSSEBE-1-01A   | MWSSEBE-1-19A   | UL       | 4      | —      | —    | —      | —    | —      | —    | —      | —   | —      | —   | —      | —    | 0.500      | 12.7 | 1000          |
| WS-SE-B-1-01A   | —               | UL       | 5      | 0.45   | 11.4 | 0.22   | 5.6  | —      | —    | —      | —   | —      | —   | —      | —    | 0.375      | 9.5  | 1000          |
| WS-SE-B-2-01A   | —               | UL       | 5      | 0.675  | 17.1 | 0.450  | 11.4 | —      | —    | —      | —   | —      | —   | —      | —    | 0.375      | 9.5  | 1000          |
| —               | WSLTB-03A-19A   | —        | 6      | —      | —    | —      | —    | —      | —    | —      | —   | —      | —   | —      | —    | 0.750      | 19.0 | 1000          |
| —               | WS-SE-C-19A2-RT | —        | 7      | —      | —    | —      | —    | —      | —    | —      | —   | —      | —   | —      | —    | 0.374      | 9.5  | 1000          |



### OFNS Series Optical Fiber Wire Saddle



#### Specifications:

- Material: Nylon 6/6
- Color: Natural

#### Features:

- No stress is applied to fiber upon entry
- Smooth, rounded corners
- Six mounting styles

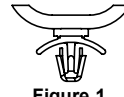
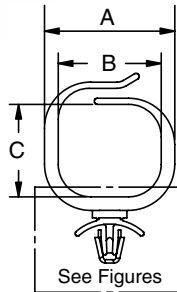


Figure 1  
Ø.187



Figure 2  
Ø.312

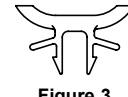


Figure 3  
.307 Square



Figure 4  
Ø.250



Figure 5  
.374 Square

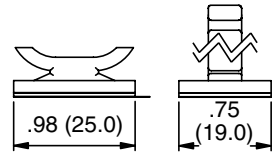


Figure 6

| Item No.        |                 | Figure | A Ref. |      | B Ref. |      | C Ref. |      | Ø Mounting Hole |            | Panel Thickness |           | Depth |     | Bulk Pack Qty |
|-----------------|-----------------|--------|--------|------|--------|------|--------|------|-----------------|------------|-----------------|-----------|-------|-----|---------------|
| UL94 V-2        | UL94 V-0        |        | in     | mm   | in     | mm   | in     | mm   | in              | mm         | in              | mm        | in    | mm  |               |
| OFNS-13-187-01  | OFNS-13-187-19  | 1      | 1.06   | 26.8 | 0.83   | 21.2 | 0.75   | 19.0 | 0.187           | 4.8        | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 1000          |
| OFNS-13-312-01  | OFNS-13-312-19  | 2      | 1.06   | 26.8 | 0.83   | 21.2 | 0.75   | 19.0 | 0.312           | 7.9        | 0.031 - 0.063   | 0.8 - 1.6 | 0.27  | 6.9 | 1000          |
| OFNS-13-250-01  | OFNS-13-250-19  | 4      | 1.06   | 26.8 | 0.83   | 21.2 | 0.75   | 19.0 | 0.250           | 6.4        | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 1000          |
| OFNS13-S9.5M-01 | OFNS13-S9.5M-19 | 5      | 1.06   | 26.8 | 0.83   | 21.2 | 0.75   | 19.0 | .374 Square     | 9.5 Square | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 1000          |
| OFNSB-13-01A-RT | OFNSB-13-19A-RT | 6      | 1.06   | 26.8 | 0.83   | 21.2 | 0.75   | 19.0 | Adhesive        | Adhesive   | Adhesive        | Adhesive  | 0.27  | 6.9 | 500           |
| OFNS-16-187-01  | OFNS-16-187-19  | 1      | 1.35   | 34.3 | 1.13   | 28.7 | 0.99   | 25.1 | 0.187           | 4.8        | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 1000          |
| OFNS-16-312-01  | OFNS-16-312-19  | 2      | 1.35   | 34.3 | 1.13   | 28.7 | 0.99   | 25.1 | 0.312           | 7.9        | 0.031 - 0.063   | 0.8 - 1.6 | 0.27  | 6.9 | 1000          |
| OFNS-16-S307-01 | OFNS-16-S307-19 | 3      | 1.35   | 34.3 | 1.13   | 28.7 | 0.99   | 25.1 | .307 Square     | 7.8 Square | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 1000          |
| OFNS16-S9.5M-01 | OFNS16-S9.5M-19 | 4      | 1.35   | 34.3 | 1.13   | 28.7 | 0.99   | 25.1 | .374 Square     | 9.5 Square | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 1000          |
| OFNSB-16-01A-RT | OFNSB-16-19A-RT | 6      | 1.35   | 34.3 | 1.13   | 28.7 | 0.99   | 25.1 | Adhesive        | Adhesive   | Adhesive        | Adhesive  | 0.27  | 6.9 | 500           |
| OFNS28-S9.5M-01 | OFNS28-S9.5M-19 | 5      | 1.35   | 34.3 | 1.13   | 28.7 | 0.99   | 25.1 | .374 Square     | 9.5 Square | 0.031 - 0.079   | 0.8 - 2.0 | 0.27  | 6.9 | 500           |

### MOFNSA/MOFNSP/MOFNSB Series Mini Optical Fiber Wire Saddle

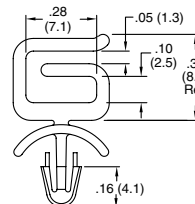


Figure 1

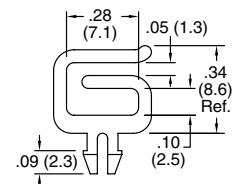
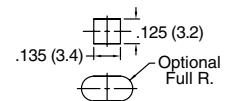


Figure 2



Mounting Hole

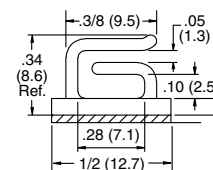


Figure 3

#### Specifications:

- Material: Nylon 6/6
- Color: Natural

#### Features:

- Design eliminates stress to fiber upon entry
- Smooth, rounded corners

| Item No.        |                 | Figure | Ø Mounting Hole |     | Panel Thickness |     | Depth |     | Bulk Pack Qty |
|-----------------|-----------------|--------|-----------------|-----|-----------------|-----|-------|-----|---------------|
| UL94 V-2        | UL94 V-0        |        | in              | mm  | in              | mm  | in    | mm  |               |
| MOFNSA-2-01     | MOFNSA-2-19     | 1      | 0.125           | 3.2 | 0.093           | 2.4 | 0.125 | 3.2 | 1000          |
| MOFNSP-2-01     | MOFNSP-2-19     | 2      | See Figure 2    |     | 0.063           | 1.6 | 0.125 | 3.2 | 1000          |
| MOFNSB-2-01A-RT | MOFNSB-2-19A-RT | 3      | Adhesive Mount  |     |                 |     | 0.375 | 9.5 | 1000          |



## WIRE SADDLES

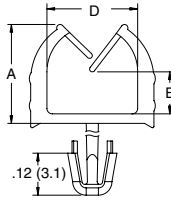
MWS Series  
Micro Wire Saddle

Figure 1

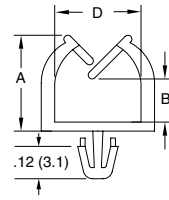


Figure 2

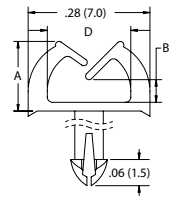


Figure 3

## Specifications:

- Material: Nylon 6/6
- Color: Natural

## Features:

- Gathers and routes wires
- Small profile is ideal for routing fiber

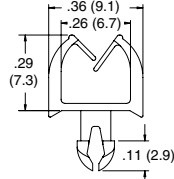


Figure 4

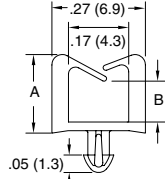


Figure 5

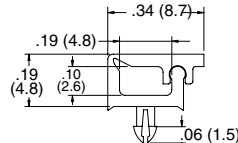


Figure 6

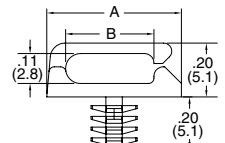


Figure 7

| Item No.       |               | Approval | Figure | A Ref. |      | B Ref.       |      | D            |     | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|----------------|---------------|----------|--------|--------|------|--------------|------|--------------|-----|-----------------|-----|-----------------|-----------|---------------|
| UL94 V-2       | UL94 V-0      |          |        | in     | mm   | in           | mm   | in           | mm  | in              | mm  | in              | mm        |               |
| MWSET1-1-01    | MWSET1-1-19   | ✓        | 3      | 0.16   | 4.0  | 0.04         | 0.9  | 0.19         | 4.8 | 0.067           | 1.7 | 0.063           | 1.6       | 1000          |
| MWSET1-1-1-01  | MWSET1-1-1-19 | ✓        | 3      | 0.16   | 4.0  | 0.04         | 0.9  | 0.190        | 4.8 | 0.067           | 1.7 | 0.093           | 2.4       | 1000          |
| MWS-1-01       | MWS-1-19      | ✓        | 5      | 0.23   | 5.8  | 0.12         | 3.0  | See Figure 5 |     | 0.070           | 1.8 | 0.062           | 1.6       | 1000          |
| MWS1-1-01      | MWS1-1-19     | —        | 5      | 0.23   | 5.8  | 0.12         | 3.0  | See Figure 5 |     | 0.070           | 1.8 | 0.093           | 2.4       | 1000          |
| MWSET1-2-01    | MWSET1-2-19   | ✓        | 3      | 0.24   | 6.0  | 0.11         | 2.9  | 0.19         | 4.8 | 0.067           | 1.7 | 0.063           | 1.6       | 1000          |
| MWSET1-2-1-01  | MWSET1-2-1-19 | ✓        | 3      | 0.24   | 6.0  | 0.11         | 2.9  | 0.19         | 4.8 | 0.067           | 1.7 | 0.093           | 2.4       | 1000          |
| MWSEA1-1-01    | MWSEA1-1-19   | ✓        | 1      | 0.29   | 7.3  | 0.12         | 3.0  | 0.26         | 6.6 | 0.118           | 3.0 | 0.063           | 1.6       | 1000          |
| MWSEA2-1-01    | MWSEA2-1-19   | ✓        | 1      | 0.29   | 7.3  | 0.12         | 3.0  | 0.26         | 6.6 | 0.138           | 3.5 | 0.063           | 1.6       | 1000          |
| MWSEA1-1-1-01  | MWSEA1-1-1-19 | ✓        | 1      | 0.29   | 7.3  | 0.12         | 3.0  | 0.26         | 6.6 | 0.118           | 3.0 | 0.093           | 2.4       | 1000          |
| MWSEA2-1-1-01  | MWSEA2-1-1-19 | ✓        | 1      | 0.29   | 7.3  | 0.12         | 3.0  | 0.26         | 6.6 | 0.138           | 3.5 | 0.093           | 2.4       | 1000          |
| MWSEA1-2-01    | MWSEA1-2-19   | ✓        | 1      | 0.36   | 9.1  | 0.16         | 3.9  | 0.32         | 8.1 | 0.118           | 3.0 | 0.063           | 1.6       | 1000          |
| MWSEA2-2-01    | MWSEA2-2-19   | ✓        | 1      | 0.36   | 9.1  | 0.16         | 3.9  | 0.32         | 8.1 | 0.138           | 3.5 | 0.063           | 1.6       | 1000          |
| MWSEA1-1-2-01  | MWSEA1-1-2-19 | ✓        | 1      | 0.36   | 9.1  | 0.16         | 3.9  | 0.32         | 8.1 | 0.118           | 3.0 | 0.093           | 2.4       | 1000          |
| MWSEA2-1-2-01  | MWSEA2-1-2-19 | ✓        | 1      | 0.36   | 9.1  | 0.16         | 3.9  | 0.32         | 8.1 | 0.138           | 3.5 | 0.093           | 2.4       | 1000          |
| MWSEA3-2-01    | MWSEA3-2-19   | ✓        | 2      | 0.36   | 9.1  | 0.16         | 3.9  | 0.32         | 8.1 | 0.138           | 3.5 | 0.063           | 1.6       | 1000          |
| MWSEA1-3-01    | MWSEA1-3-19   | ✓        | 1      | 0.44   | 11.2 | 0.24         | 6.0  | 0.36         | 9.1 | 0.118           | 3.0 | 0.063           | 1.6       | 1000          |
| MWSEA2-3-01    | MWSEA2-3-19   | ✓        | 1      | 0.44   | 11.2 | 0.24         | 6.0  | 0.36         | 9.1 | 0.138           | 3.5 | 0.063           | 1.6       | 1000          |
| MWSEA1-1-3-01  | MWSEA1-1-3-19 | ✓        | 1      | 0.44   | 11.2 | 0.24         | 6.0  | 0.36         | 9.1 | 0.118           | 3.0 | 0.093           | 2.4       | 1000          |
| MWSEA2-1-3-01  | MWSEA2-1-3-19 | ✓        | 1      | 0.44   | 11.2 | 0.24         | 6.0  | 0.36         | 9.1 | 0.138           | 3.5 | 0.093           | 2.4       | 1000          |
| —              | MWS-2-19      | —        | 5      | 0.44   | 11.2 | 0.33         | 8.5  | See Figure 5 |     | 0.070           | 1.8 | 0.063           | 1.6       | 1000          |
| —              | MWS-3-19      | —        | 5      | 0.44   | 11.2 | 0.33         | 8.5  | See Figure 5 |     | 0.070           | 1.8 | 0.087           | 2.2       | 1000          |
| MWSEA1-4-01    | MWSEA1-4-19   | ✓        | 1      | 0.51   | 13.0 | 0.30         | 7.7  | 0.36         | 9.1 | 0.118           | 3.0 | 0.063           | 1.6       | 1000          |
| MWSEA2-4-01    | MWSEA2-4-19   | ✓        | 1      | 0.51   | 13.0 | 0.30         | 7.7  | 0.36         | 9.1 | 0.138           | 3.5 | 0.063           | 1.6       | 1000          |
| MWSEA1-1-4-01  | MWSEA1-1-4-19 | ✓        | 1      | 0.51   | 13.0 | 0.30         | 7.7  | 0.36         | 9.1 | 0.118           | 3.0 | 0.093           | 2.4       | 1000          |
| MWSEA2-1-4-01  | MWSEA2-1-4-19 | ✓        | 1      | 0.51   | 13.0 | 0.30         | 7.7  | 0.36         | 9.1 | 0.138           | 3.5 | 0.093           | 2.4       | 1000          |
| MWSET2-1-01    | MWSET2-1-19   | ✓        | 4      |        |      | See Figure 4 |      |              |     | 0.118           | 3.0 | 0.039 - 0.047   | 1.0 - 1.2 | 1000          |
| MWSET2-2-01    | MWSET2-2-19   | ✓        | 4      |        |      | See Figure 4 |      |              |     | 0.118           | 3.0 | 0.047 - 0.063   | 1.2 - 1.6 | 1000          |
| MWSLT-1-01     | MWSLT-1-19    | —        | 6      |        |      | See Figure 6 |      |              |     | 0.067           | 1.7 | 0.063           | 1.6       | 1000          |
| MWSLT1-1-01    | MWSLT1-1-19   | —        | 6      |        |      | See Figure 6 |      |              |     | 0.067           | 1.7 | 0.093           | 2.4       | 1000          |
| MBHWSSE-1-01   | —             | —        | 7      | 0.50   | 12.7 | 0.33         | 0.8  | See Figure 7 |     | 0.156           | 4.0 | 0.040 - 0.160   | 1.0 - 4.1 | 1000          |
| MBHWSSE-1-1-01 | —             | —        | 7      | 0.67   | 17.0 | 0.49         | 12.5 | See Figure 7 |     | 0.156           | 4.0 | 0.040 - 0.160   | 1.0 - 4.1 | 1000          |

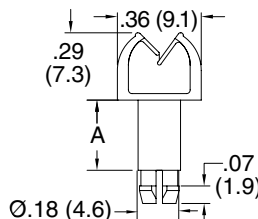
MWSELF/SMWS Series  
Standoff Micro Wire Saddle

Figure 1

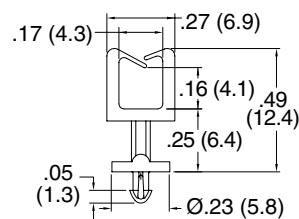


Figure 2



## Specifications:

- Material: Nylon 6/6
- Color: Natural

## Features:

- Gathers and routes wires
- Standoff design provides spacing between the wires and the chassis

| Item No.        |                 | Figure | A            |     | Ø Mounting Hole |     | Panel Thickness |     | Bulk Pack Qty |
|-----------------|-----------------|--------|--------------|-----|-----------------|-----|-----------------|-----|---------------|
| UL94 V-2        | UL94 V-0        |        | in           | mm  | in              | mm  | in              | mm  |               |
| MWSELF-1-4.1-01 | MWSELF-1-4.1-19 | 1      | 0.16         | 4.1 | 0.15            | 3.8 | 0.063           | 1.6 | 1000          |
| MWSELF-1-7.7-01 | MWSELF-1-7.7-19 | 1      | 0.30         | 7.7 | 0.15            | 3.8 | 0.063           | 1.6 | 1000          |
| MWSELF-2-4.1-01 | MWSELF-2-4.1-19 | 1      | 0.16         | 4.1 | 0.15            | 3.8 | 0.079           | 2.0 | 1000          |
| MWSELF-2-7.7-01 | MWSELF-2-7.7-19 | 1      | 0.30         | 7.7 | 0.15            | 3.8 | 0.079           | 2.0 | 1000          |
| SMWS-1-01       | SMWS-1-19       | 2      | See Figure 2 |     | 0.07            | 1.8 | 0.062           | 1.6 | 1000          |
| SMWS1-1-01      | SMWS1-1-19      | 2      | See Figure 2 |     | 0.07            | 1.8 | 0.093           | 2.4 | 1000          |

## WIRE SADDLES &amp; FLAT CABLE CLAMPS

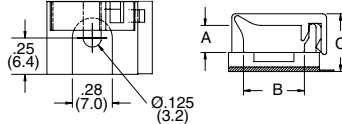

**WSLTB/MWSLTB Series**  
**Wire Saddle Locking Top**


Figure 1

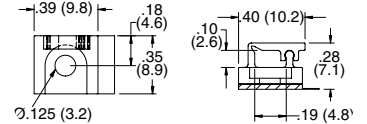


Figure 2

**Specifications:**

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

**Features:**

- Gathers, routes and locks cables and wires

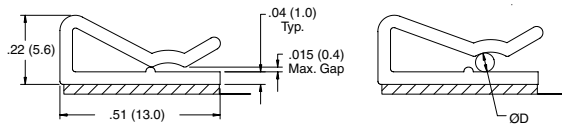
| Item No.        | Mounting Method                 | Figure | A            |      | B    |      | C Ref. |      | Bulk Pack Qty |
|-----------------|---------------------------------|--------|--------------|------|------|------|--------|------|---------------|
|                 |                                 |        | in           | mm   | in   | mm   | in     | mm   |               |
| WSLTB-01A-19A   | Adhesive                        | 1      | 0.19         | 4.8  | 0.42 | 10.7 | 0.41   | 10.4 | 1000          |
| WSLTB-01A-19    | #4 or M3 Screw or SR-30XX Rivet | 1      | 0.19         | 4.8  | 0.42 | 10.7 | 0.38   | 9.6  | 1000          |
| WSLTB-02A-19A   | Adhesive                        | 1      | 0.39         | 10.0 | 0.64 | 16.3 | 0.61   | 15.5 | 1000          |
| WSLTB-02A-19    | #4 or M3 Screw or SR-30XX Rivet | 1      | 0.39         | 10.0 | 0.64 | 16.3 | 0.58   | 14.7 | 1000          |
| MWSLTB-1-19A-RT | Adhesive                        | 2      | See Figure 2 |      |      |      |        |      | 1000          |
| MWSLTB-1-19     | #4 or M3 Screw or SR-30XX Rivet | 2      | See Figure 2 |      |      |      |        |      | 1000          |

**SWC Series**  
**Single Wire Clip**
**Specifications:**

- Material: UL94 V-1 PPE/PS
- Color: White

**Features:**

- To insert or remove cable, simply lift the tip of the clamp



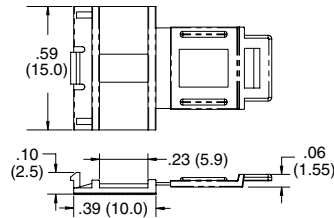
| Item No. | Ø D Holding |           | Base        |            | Bulk Pack Qty |
|----------|-------------|-----------|-------------|------------|---------------|
|          | in          | mm        | in          | mm         |               |
| SWC-0    | 0.03 - 0.06 | 0.8 - 1.5 | 0.51 x 0.38 | 13.0 x 9.5 | 1000          |

**MCC Series**  
**Adhesive Mount Micro Cable Clamp**
**Specifications:**

- Material: UL94 V-2 Nylon 6/6,
- Color: Black

**Features:**

- Low profile and small footprint take up little real estate
- Center rib gently grips cables
- Convenient latch is releasable for maintenance
- Easily mounted with adhesive base



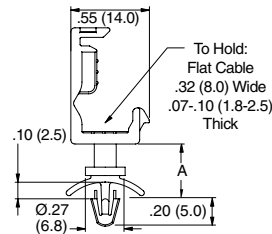
| Item No.     | Max Cable Thickness |     | Max Cable Width |     | Bulk Pack Qty |
|--------------|---------------------|-----|-----------------|-----|---------------|
|              | in                  | mm  | in              | mm  |               |
| MCC-1-01A-BK | 0.040               | 1.0 | 0.23            | 5.8 | 1000          |

**FCWSS Series**  
**Flat Cable Wire Saddle**
**Specifications:**

- Material: UL94 V-2 Nylon 6/6
- Color: Black

**Features:**

- Designed to hold down standard Serial ATA cable
- Flexible tension wing allows a range of cable thicknesses
- Grips cable firmly



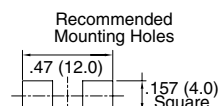
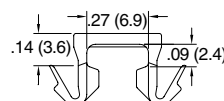
| Item No.     | A     |      | Panel Hole Ø |     | Panel Thickness |           | Bulk Pack Qty |
|--------------|-------|------|--------------|-----|-----------------|-----------|---------------|
|              | in    | mm   | in           | mm  | in              | mm        |               |
| FCWSS-1-01BK | 0.189 | 4.8  | 0.158        | 4.0 | 0.032 - 0.064   | 0.8 - 1.6 | 1000          |
| FCWSS-2-01BK | 0.394 | 10.0 | 0.158        | 4.0 | 0.032 - 0.064   | 0.8 - 1.6 | 1000          |

**FCCE Series**  
**Flat Cable Clamp**
**Specifications:**

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

**Features:**

- Holds down ribbon cable
- Extremely low profile



| Item No.  | Max. Cable Width |     | Panel Thickness |           | Depth |     | Bulk Pack Qty |
|-----------|------------------|-----|-----------------|-----------|-------|-----|---------------|
|           | in               | mm  | in              | mm        | in    | mm  |               |
| FCCE-9-01 | 0.250            | 6.4 | 0.039 - 0.047   | 1.0 - 1.2 | 0.28  | 7.0 | 1000          |



## FLAT CABLE CLAMPS

## CFCC Series

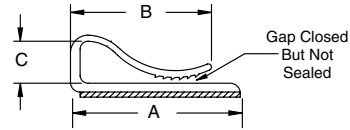
## Side Load Flat Cable Clamp

## Specifications:

- Material: See Table
- Color: See Table

## Features:

- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile



| Item No.      | A     |      | B Ref. |      | C    |     | Depth |      | Material        | Color | Bulk Pack Qty |
|---------------|-------|------|--------|------|------|-----|-------|------|-----------------|-------|---------------|
|               | in    | mm   | in     | mm   | in   | mm  | in    | mm   |                 |       |               |
| CFCC-3-05A-RT | 0.563 | 14.3 | 0.49   | 12.5 | 0.18 | 4.6 | 1.00  | 25.4 | UL94 V-1 PPE/PS | White | 1000          |
| CFCC-4-05A-RT | 0.563 | 14.3 | 0.42   | 10.7 | 0.25 | 6.4 | 1.00  | 25.4 | UL94 V-1 PPE/PS | White | 1000          |
| CFCC-8-05A-RT | 1.062 | 27.0 | 0.88   | 22.4 | 0.25 | 6.4 | 1.00  | 25.4 | UL94 V-1 PPE/PS | White | 1000          |
| CFCC-8-04A-RT | 1.062 | 27.0 | 0.88   | 22.4 | 0.25 | 6.4 | 1.00  | 25.4 | UL94 V-0 PVC    | Grey  | 1000          |

## CFCCS Series

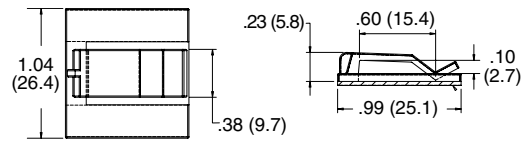
## Split Flat Cable Clamp On Adhesive Base

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Tension arm securely holds down flat ribbon cable



| Item No.    | Bulk Pack Qty |
|-------------|---------------|
| CFCCS-8-01A | 1000          |

## SFCC Series

## Split Flat Cable Clamp

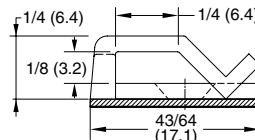


Figure 1

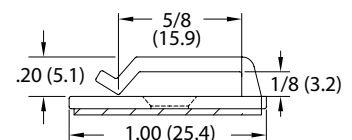


Figure 2

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Two tension arms hold flat ribbon cable firmly in place
- Easily installed with screw or adhesive

| Item No.      | Base          |             | Mounting Method            | Figure | Bulk Pack Qty |
|---------------|---------------|-------------|----------------------------|--------|---------------|
|               | in            | mm          |                            |        |               |
| SFCC-4-01     | 0.672 x 0.500 | 17.1 x 12.7 | #4 or M2.5 Flat Head Screw | 1      | 1000          |
| SFCC-4-01A-RT | 0.672 x 0.500 | 17.1 x 12.7 | Adhesive                   | 1      | 1000          |
| SFCC-8-01     | 1.000 x 1.000 | 25.4 x 25.4 | #6 or M3 Flat Head Screw   | 2      | 1000          |
| SFCC-8-01A-RT | 1.000 x 1.000 | 25.4 x 25.4 | Adhesive                   | 2      | 1000          |

## CFCCA Series

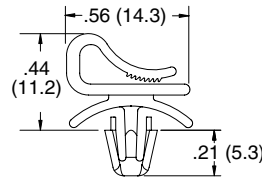
## Flat Cable Clamp

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile



| Item No.   | Ø Mounting Hole |     | Panel Thickness |           | Base        |             | Bulk Pack Qty |
|------------|-----------------|-----|-----------------|-----------|-------------|-------------|---------------|
|            | in              | mm  | in              | mm        | in          | mm          |               |
| CFCCA-1-01 | 0.187           | 4.8 | 0.310 - 0.078   | 0.8 - 2.0 | 0.56 x 0.63 | 14.3 x 15.9 | 1000          |

## TFCCA Series

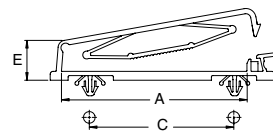
## Flat Cable Clamp with Tension

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Provides tension to flat ribbon cable to ensure stability
- Convenient releasable latch



| Item No.    | Max # of Conductors | A    |      | C     |      | E    |      | Ø Mounting Hole |     | Panel Thickness |           | Depth |      | Bulk Pack Qty |
|-------------|---------------------|------|------|-------|------|------|------|-----------------|-----|-----------------|-----------|-------|------|---------------|
|             |                     | in   | mm   | in    | mm   | in   | mm   | in              | mm  | in              | mm        | in    | mm   |               |
| TFCCA-15-01 | 10                  | 0.57 | 14.5 | 0.591 | 15.0 | 0.56 | 14.1 | 0.156           | 4.0 | 0.040 - 0.079   | 1.0 - 2.0 | 0.36  | 9.1  | 100           |
| TFCCA-25-01 | 20                  | 0.97 | 24.7 | 0.787 | 20.0 | 0.50 | 12.7 | 0.156           | 4.0 | 0.040 - 0.079   | 1.0 - 2.0 | 0.52  | 13.2 | 100           |
| TFCCA-40-01 | 40                  | 2.13 | 54.1 | 1.575 | 40.0 | 0.64 | 16.3 | 0.156           | 4.0 | 0.040 - 0.079   | 1.0 - 2.0 | 0.39  | 10.0 | 100           |
| TFCCA-50-01 | 50                  | 2.51 | 63.8 | 1.957 | 49.7 | 0.54 | 13.7 | 0.156           | 4.0 | 0.040 - 0.079   | 1.0 - 2.0 | 0.40  | 10.2 | 100           |

## FLAT CABLE CLAMPS

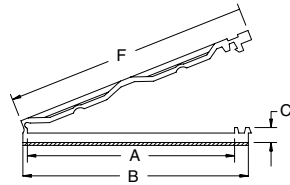
**TFCM Series****Flat Cable Clamp with Tension on Adhesive Base**

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Provides tension to flat ribbon cable to ensure stability
- Low profile where space is an issue
- Convenient releasable latch



| Item No. | A Ref. |      | B Ref. |      | C Ref. |     | F Ref. |      | Depth |      | Suitable Cable | Bulk Pack Qty |
|----------|--------|------|--------|------|--------|-----|--------|------|-------|------|----------------|---------------|
|          | in     | mm   | in     | mm   | in     | mm  | in     | mm   | in    | mm   |                |               |
| TFCM-25S | 0.87   | 22.0 | 1.06   | 27.0 | 0.12   | 3.0 | 1.26   | 32.0 | 0.39  | 10.0 | 15 Pln         | 200           |
| TFCM-25  | 1.15   | 29.3 | 1.44   | 36.5 | 0.12   | 3.0 | 1.57   | 40.0 | 0.39  | 10.0 | 20 Pln         | 200           |
| TFCM-25M | 2.20   | 55.8 | 2.41   | 61.2 | 0.16   | 4.0 | 2.59   | 66.0 | 0.59  | 15.0 | 40 Pln         | 100           |

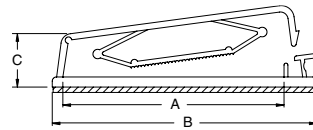
**TFCC Series****Flat Cable Clamp with Tension on Adhesive Base**

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Provides tension to flat ribbon cable to ensure stability
- Adhesive base for quick mounting



| Item No.   | Max # Of Conductors | A Ref. |      | B    |      | C    |      | Depth |      | Bulk Pack Qty |
|------------|---------------------|--------|------|------|------|------|------|-------|------|---------------|
|            |                     | in     | mm   | in   | mm   | in   | mm   | in    | mm   |               |
| TFCC-30-01 | 30                  | 1.26   | 32.0 | 1.77 | 45.0 | 0.62 | 15.8 | 0.73  | 18.6 | 100           |
| TFCC-40-01 | 40                  | 2.13   | 54.0 | 2.64 | 67.0 | 0.62 | 15.8 | 0.62  | 15.8 | 100           |
| TFCC-50-01 | 50                  | 2.57   | 65.2 | 3.09 | 78.4 | 0.62 | 15.8 | 0.74  | 18.8 | 100           |

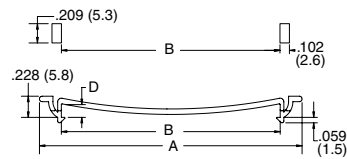
**FCCS Series****Flat Cable Clamp**

## Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

## Features:

- Very low profile
- Designed to firmly hold down flat ribbon cable
- Easily removable from the top of the panel



Mounting Holes



| Item No. | A    |      | B    |      | D    |     | Depth |     | Bulk Pack Qty |
|----------|------|------|------|------|------|-----|-------|-----|---------------|
|          | in   | mm   | in   | mm   | in   | mm  | in    | mm  |               |
| FCCS-1   | 1.06 | 27.0 | 0.59 | 15.0 | 0.13 | 3.4 | 0.28  | 7.0 | 500           |
| FCCS-2   | 1.65 | 42.0 | 1.18 | 30.0 | 0.15 | 3.7 | 0.28  | 7.0 | 500           |
| FCCS-3   | 1.85 | 47.0 | 1.38 | 35.0 | 0.15 | 3.7 | 0.28  | 7.0 | 500           |
| FCCS-4   | 2.24 | 57.0 | 1.77 | 45.0 | 0.15 | 3.7 | 0.28  | 7.0 | 500           |
| FCCS-5   | 2.83 | 72.0 | 2.36 | 60.0 | 0.15 | 3.7 | 0.28  | 7.0 | 500           |

**RDAFCC Series****Flat Cable Clamp**

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Grey

## Features:

- Low profile design
- Releasable latch for adding or removing flat ribbon cable
- Large mounting base for high bonding strength and stability

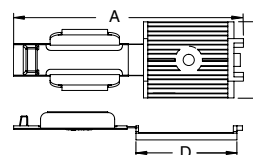


Figure 1

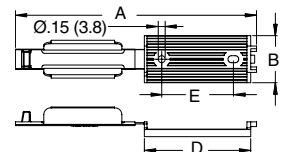


Figure 2



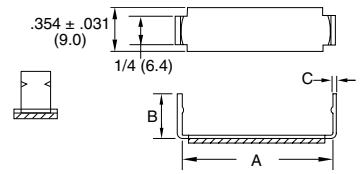
| Item No.   | Figure | Max Cable Width |      | Mounting Method  | A Ref. |       | B Ref. |      | D Ref. |      | E     |      | Bulk Pack Qty |
|------------|--------|-----------------|------|------------------|--------|-------|--------|------|--------|------|-------|------|---------------|
|            |        | in              | mm   |                  | in     | mm    | in     | mm   | in     | mm   | in    | mm   |               |
| RDAFCC-25  | 1      | 1.000           | 25.4 | #6 or M3.5 Screw | 2.984  | 75.8  | 0.984  | 25.0 | 1.169  | 29.7 | —     | —    | 100           |
| RDAFCC-25A | 1      | 1.000           | 25.4 | Adhesive         | 2.984  | 75.8  | 0.984  | 25.0 | 1.169  | 29.7 | —     | —    | 100           |
| RDAFCC-50  | 2      | 2.000           | 50.8 | #6 or M3.5 Screw | 5.059  | 128.5 | 0.954  | 25.0 | 2.224  | 56.5 | 1.496 | 38.0 | 100           |
| RDAFCC-50A | 2      | 2.000           | 50.8 | Adhesive         | 5.059  | 128.5 | 0.984  | 25.0 | 2.224  | 56.5 | 1.496 | 38.0 | 100           |
| RDAFCC-82  | 2      | 3.000           | 76.2 | #6 or M3.5 Screw | 7.062  | 179.4 | 1.000  | 25.4 | 3.259  | 82.8 | 1.496 | 38.0 | 100           |
| RDAFCC-82A | 2      | 3.000           | 76.2 | Adhesive         | 7.062  | 179.4 | 1.000  | 25.4 | 3.259  | 82.8 | 1.496 | 38.0 | 100           |



## FLAT CABLE CLAMPS

### AFCC Series

#### Aluminum Flat Cable Clamp on Adhesive Base



#### Specifications:

- Material: Aluminum
- Color: Bright Finish

#### Features:

- Aluminum arms secure flat ribbon cable
- Lightweight and durable
- Low profile for limited space applications

| Item No. | Cable Width A |      | B Ref. |      | C    |     | Depth |     | Bulk Pack Qty |
|----------|---------------|------|--------|------|------|-----|-------|-----|---------------|
|          | in            | mm   | in     | mm   | in   | mm  | in    | mm  |               |
| AFCC-08  | 0.500         | 12.7 | 0.250  | 6.4  | 0.02 | 0.5 | 0.350 | 9.0 | 250           |
| AFCC-12  | 0.750         | 19.1 | 0.250  | 6.4  | 0.02 | 0.5 | 0.350 | 9.0 | 250           |
| AFCC-16  | 1.000         | 25.4 | 0.312  | 7.9  | 0.02 | 0.5 | 0.350 | 9.0 | 250           |
| AFCC-20  | 1.250         | 31.8 | 0.375  | 9.5  | 0.02 | 0.5 | 0.350 | 9.0 | 250           |
| AFCC-21  | 1.312         | 33.3 | 0.385  | 9.8  | 0.02 | 0.5 | 0.350 | 9.0 | 250           |
| AFCC-24  | 1.500         | 38.1 | 0.437  | 11.1 | 0.02 | 0.5 | 0.350 | 9.0 | 250           |
| AFCC-28  | 1.750         | 44.5 | 0.500  | 12.7 | 0.03 | 0.8 | 0.350 | 9.0 | 250           |
| AFCC-32  | 2.000         | 50.8 | 0.562  | 14.3 | 0.03 | 0.8 | 0.350 | 9.0 | 250           |

### DFCC Series

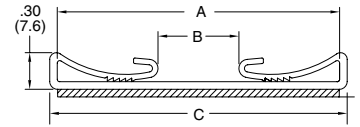
#### Dual Flat Cable Clamp on Adhesive Base

#### Specifications:

- Material: UL94 V-0 PVC
- Color: Black

#### Features:

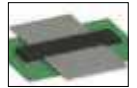
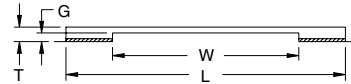
- Flat ribbon cable is secured by serrated grips on both sides
- Low profile for limited space applications



| Item No.  | A     |      | B Ref. |      | C     |      | Depth |      | # of Conductors | Bulk Pack Qty |
|-----------|-------|------|--------|------|-------|------|-------|------|-----------------|---------------|
|           | in    | mm   | in     | mm   | in    | mm   | in    | mm   |                 |               |
| DFCC-2-RT | 2.312 | 58.7 | 0.656  | 16.8 | 2.437 | 61.9 | 0.750 | 19.1 | 34-37-40        | 100           |
| DFCC-3-RT | 3.250 | 82.6 | 1.609  | 40.6 | 3.375 | 85.7 | 0.750 | 19.1 | 50-60-64        | 100           |

### FCC Series

#### Flat Cable Clamp on Adhesive Base



#### Specifications:

- Material: UL94 V-0 PVC
- Color: Black

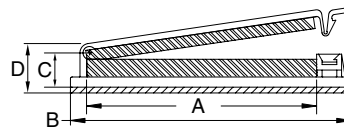
#### Features:

- Clamp is secured with adhesive over flat ribbon cable
- Low profile for limited space applications

| Item No.    | L    |      | W    |      | T     |     | G     |     | Depth |      | Bulk Pack Qty |
|-------------|------|------|------|------|-------|-----|-------|-----|-------|------|---------------|
|             | in   | mm   | in   | mm   | in    | mm  | in    | mm  | in    | mm   |               |
| FCC-4-3-RT  | 1.50 | 38.1 | 0.50 | 12.7 | 0.156 | 4.0 | 0.093 | 2.4 | 0.500 | 12.7 | 100           |
| FCC-8-3-RT  | 2.00 | 50.8 | 1.00 | 25.4 | 0.156 | 4.0 | 0.093 | 2.4 | 0.500 | 12.7 | 100           |
| FCC-16-3-RT | 3.00 | 76.2 | 2.00 | 50.6 | 0.156 | 4.0 | 0.093 | 2.4 | 0.500 | 12.7 | 100           |

### FCWSF Series

#### Cable Clamp with Silicone Foam Center



#### Specifications:

- Material: UL94 V-0 Nylon 6/6 and Silicone Foam
- Color: Natural

#### Features:

- UL94 V-0 silicone foam securely holds and protects fiber and cable
- Adhesive base for fast installation

| Item No.    | A    |      | B    |      | C Ref. |     | D Ref. |      | Depth |      | Cushion Thickness |     |           |     | Pack Qty | Bulk Pack Qty |
|-------------|------|------|------|------|--------|-----|--------|------|-------|------|-------------------|-----|-----------|-----|----------|---------------|
|             | in   | mm   | in   | mm   | in     | mm  | in     | mm   | in    | mm   | Latch Side        |     | Base Side |     |          |               |
|             |      |      |      |      |        |     |        |      |       |      | in                | mm  | in        | mm  |          |               |
| FCWSF-29-19 | 1.24 | 31.5 | 1.78 | 45.1 | 0.30   | 7.7 | 0.44   | 11.1 | 0.74  | 18.9 | 0.13              | 3.3 | 0.13      | 3.3 | 1        | 100           |
| FCWSF-30-19 | 1.24 | 31.5 | 1.79 | 45.5 | 0.35   | 9.0 | 0.52   | 13.1 | 0.75  | 19.1 | 0.13              | 3.3 | 0.19      | 4.8 | 1        | 100           |
| FCWSF-40-19 | 1.55 | 39.3 | 2.09 | 53.0 | 0.37   | 9.3 | 0.53   | 13.4 | 0.75  | 19.1 | 0.13              | 3.3 | 0.19      | 4.8 | 1        | 100           |
| FCWSF-50-19 | 2.49 | 63.2 | 3.04 | 77.2 | 0.36   | 9.1 | 0.52   | 13.2 | 0.75  | 19.1 | 0.13              | 3.3 | 0.19      | 4.8 | 1        | 100           |



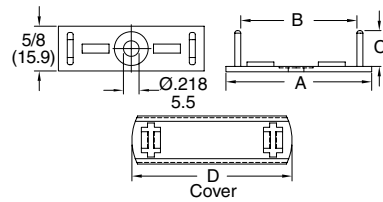
### FCRC Series Flat Cable Routing Clamp

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Two part design: Cable Clamp base and tension-locking cover (sold separately)
- More than one cover can be mounted on base for strain relief.
- Double back cable and secure with a second cover
- Base is secured either with a #10 or #12 screw or adhesive



| Base Item No. |                | A Ref. |      | B Ref. |      | C     |      | Use Cover Item No. | D    |      | Bulk Pack Qty |
|---------------|----------------|--------|------|--------|------|-------|------|--------------------|------|------|---------------|
| w/o Adhesive  | w/ Adhesive    | in     | mm   | in     | mm   | in    | mm   |                    | in   | mm   |               |
| FCRC-13B-4    | FCRC-13B-4A-RT | 2.04   | 51.7 | 1.62   | 41.2 | 0.500 | 12.7 | FCRC-13C           | 2.24 | 56.8 | 100           |
| FCRC-19B-4    | FCRC-19B-4A-RT | 2.72   | 69.1 | 2.31   | 58.7 | 0.500 | 12.7 | FCRC-19C           | 2.92 | 74.2 | 100           |
| FCRC-21B-4    | FCRC-21B-4A-RT | 2.98   | 75.7 | 2.55   | 64.8 | 0.500 | 12.7 | FCRC-21C           | 3.17 | 80.5 | 100           |
| FCRC-26B-4    | FCRC-26B-4A-RT | 3.66   | 93.0 | 3.24   | 82.3 | 0.500 | 12.7 | FCRC-26C           | 3.86 | 98.0 | 100           |
| FCRC-13B-6    | FCRC-13B-6A-RT | 2.04   | 51.7 | 1.62   | 41.2 | 0.750 | 19.1 | FCRC-13C           | 2.24 | 56.8 | 100           |
| FCRC-19B-6    | FCRC-19B-6A-RT | 2.72   | 69.1 | 2.31   | 58.7 | 0.750 | 19.1 | FCRC-19C           | 2.92 | 74.2 | 100           |
| FCRC-21B-6    | FCRC-21B-6A-RT | 2.98   | 75.7 | 2.55   | 64.8 | 0.750 | 19.1 | FCRC-21C           | 3.17 | 80.5 | 100           |
| FCRC-26B-6    | FCRC-26B-6A-RT | 3.66   | 93.0 | 3.24   | 82.3 | 0.750 | 19.1 | FCRC-26C           | 3.86 | 98.0 | 100           |

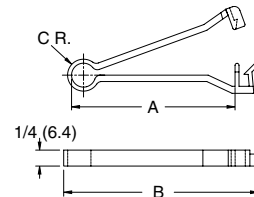
### FCLC/FCLCS Series Flat Cable Loop Clip

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Allows for quick positive clamping of flat cable without the need for securing the clip to a board



| Item No. | A Max Cable Width |      | B Ref. |      | C Ref. |     | Bulk Pack Qty |
|----------|-------------------|------|--------|------|--------|-----|---------------|
|          | in                | mm   | in     | mm   | in     | mm  |               |
| FCLCS    | 1.50              | 38.1 | 2.00   | 50.8 | 0.23   | 5.8 | 500           |
| FCLC     | 2.50              | 63.5 | 3.00   | 76.2 | 0.25   | 6.4 | 500           |

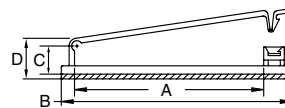
### FCW Series Cable Clamp On Adhesive Base

#### Specifications:

- Material: Nylon 6/6
- Color: Natural

#### Features:

- Allows for quick positive clamping of flat cable up to 50 conductors wide
- Adhesive base for quick installation
- Latch allows cables to be added and removed



| Item No.   |            | Max # of Conductors | Depth |      | A    |      | B    |      | C Ref. |      | D Ref. |      | Bulk Pack Qty |
|------------|------------|---------------------|-------|------|------|------|------|------|--------|------|--------|------|---------------|
| UL94 V-2   | UL94 V-0   |                     | in    | mm   | in   | mm   | in   | mm   | in     | mm   | in     | mm   |               |
| FCW-29-01  | FCW-29-19  | 30                  | 0.74  | 18.9 | 1.24 | 31.5 | 1.78 | 45.1 | 0.30   | 7.7  | 0.44   | 11.1 | 100           |
| FCW-30-01  | FCW-30-19  | 30                  | 0.75  | 19.1 | 1.24 | 31.5 | 1.79 | 45.5 | 0.35   | 9.0  | 0.52   | 13.1 | 100           |
| FCW-40-01  | FCW-40-19  | 40                  | 0.75  | 19.1 | 1.55 | 39.3 | 2.09 | 53.0 | 0.37   | 9.3  | 0.53   | 13.4 | 100           |
| FCW-50-01  | FCW-50-19  | 50                  | 0.75  | 19.1 | 2.49 | 63.2 | 3.04 | 77.2 | 0.36   | 9.1  | 0.52   | 13.2 | 100           |
| FCW-50H-01 | FCW-50H-19 | 50                  | 0.74  | 18.9 | 2.54 | 64.6 | 3.08 | 78.2 | 0.59   | 15.1 | 0.75   | 19.0 | 100           |

### FCCA/FCCB Series Arrowhead Mounted Cable Clamp

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Convenient releasable latch allows easy addition and removal of cables
- Easily mounted into pre-drilled holes

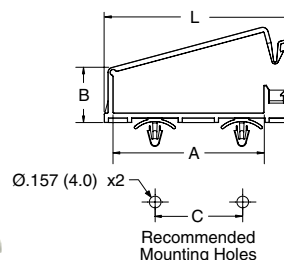


Figure 1

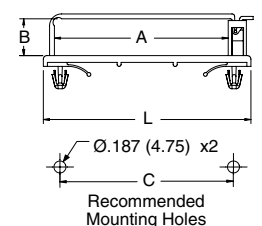


Figure 2

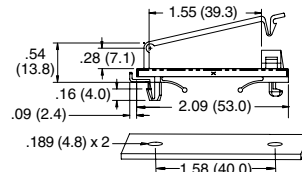
| Item No.    | Figure | L    |      | A    |      | B    |      | C    |      | Panel Thickness |           | Depth |      | Bulk Pack Qty |
|-------------|--------|------|------|------|------|------|------|------|------|-----------------|-----------|-------|------|---------------|
|             |        | in   | mm   | in   | mm   | in   | mm   | in   | mm   | in              | mm        | in    | mm   |               |
| FCCA-30A-01 | 1      | 2.56 | 65.0 | 2.10 | 52.0 | 0.75 | 19.1 | 1.18 | 30.0 | 0.030 - 0.079   | 0.8 - 2.0 | 0.39  | 10.0 | 100           |
| FCCA-40A-01 | 1      | 2.64 | 67.0 | 5.10 | 53.4 | 0.64 | 16.4 | 1.58 | 40.0 | 0.030 - 0.079   | 0.8 - 2.0 | 0.39  | 10.0 | 100           |
| FCCB-1      | 2      | 3.03 | 77.0 | 2.54 | 64.5 | 0.28 | 7.2  | 2.54 | 64.5 | 0.031 - 0.078   | 0.8 - 2.0 | 0.79  | 20.0 | 100           |
| FCCB-2      | 2      | 3.03 | 77.0 | 2.54 | 64.5 | 0.54 | 13.7 | 2.54 | 64.5 | 0.031 - 0.078   | 0.8 - 2.0 | 0.79  | 20.0 | 100           |



## CABLE CLAMPS & CLIPS

### FCSE Series

#### Slide Entry Cable Clamp



Mounting Holes



#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Removable from the top side of the board

| Item No. | Depth |      | Panel Thickness Max |     | Bulk Pack Qty |
|----------|-------|------|---------------------|-----|---------------|
|          | in    | mm   | in                  | mm  |               |
| FCSE-1   | 0.752 | 19.0 | 0.073               | 1.4 | 100           |

### HFCC Series

#### Hinged Cable Clamp

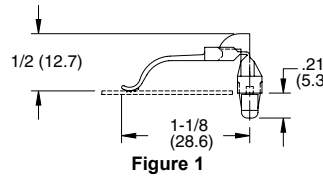


Figure 1

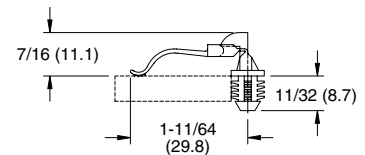


Figure 2

#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

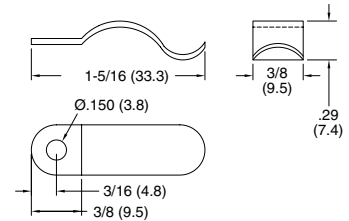
#### Features:

- Easy loading of flat cables
- Hinged design allows cables to be oriented prior to closure
- Once arm is hinged it locks in place
- Arrowhead design for thinner panels
- Fir-tree mount is primarily for particle board

| Item No.     | Mounting Holes |     | Panel Thickness |           | Figure | Bulk Pack Qty |
|--------------|----------------|-----|-----------------|-----------|--------|---------------|
|              | in             | mm  | in              | mm        |        |               |
| HFCC-A-8-01  | 0.187          | 4.8 | 0.047 - 0.078   | 1.2 - 2.0 | 1      | 1000          |
| HFCC-BH-8-01 | 0.312          | 7.9 | 0.250 min.      | 6.4 min.  | 2      | 1000          |

### TC Series

#### Spring Clip



#### Specifications:

- Material: See Table
- Color: See Table

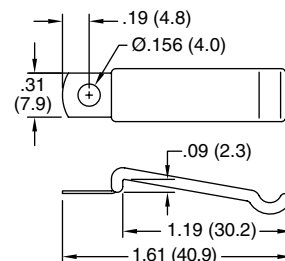
#### Features:

- Holds down round cable, ribbon cable, and tubing
- Mounts with a #6 screw or rivet
- Flexible enough that the cable can be removed without removing the clip
- All contact edges are rounded for product protection

| Item No.     | Holding Ø Max. |     | Mounting Screw | Material           | Color   | Bulk Pack Qty |
|--------------|----------------|-----|----------------|--------------------|---------|---------------|
|              | in             | mm  |                |                    |         |               |
| TC-30-1      | 0.37           | 9.4 | #6 (M3/M3.5)   | UL94 HB Acetal     | Natural | 1000          |
| TC-30-1BK    | 0.37           | 9.4 | #6 (M3/M3.5)   | UL94 HB Acetal     | Black   | 1000          |
| TC-30-1-01   | 0.37           | 9.4 | #6 (M3/M3.5)   | UL94 V-2 Nylon 6/6 | Natural | 1000          |
| TC-30-1-01BK | 0.37           | 9.4 | #6 (M3/M3.5)   | UL94 V-2 Nylon 6/6 | Black   | 1000          |

### STCV Series

#### Vinyl Coated Steel Spring Clip



#### Specifications:

- Material: Stainless Steel SAE30301
- Coating: Plastisol Vinyl
- Color: Black

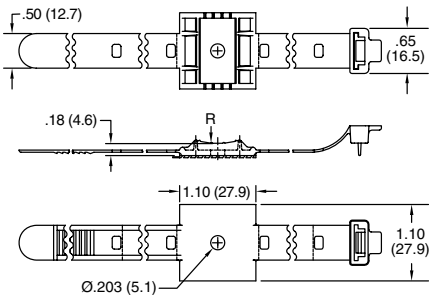
#### Features:

- Vinyl coating protects and insulates product
- Holds down round cable, ribbon cable and tubing
- Mounts with a #6 (M3) screw or rivet
- Flexible enough that the cable can be removed without removing the clip

| Item No. | Mounting Screw | Pack Qty | Bulk Pack Qty |
|----------|----------------|----------|---------------|
| STCV-1   | #6 (M3)        | 1        | 1000          |



UMS Series  
Universal Mounting Strap



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Mounts with adhesive or a #6 or M4 screw
- Buckle design allows gripping down on cable bundles
- Adjustable to handle multiple bundle sizes



| Item No.      |              | Min Loop Tensile Strength |    | Ø Max Bundle |      | R Radius |      | Bulk Pack Qty |
|---------------|--------------|---------------------------|----|--------------|------|----------|------|---------------|
| w/ Adhesive   | w/o Adhesive | lbs                       | kg | in           | mm   | in       | mm   |               |
| UMS-16-45A-RT | UMS-16-45    | 50                        | 23 | 1.000        | 25.4 | 0.500    | 12.7 | 100           |
| UMS-24-45A-RT | UMS-24-45    | 50                        | 23 | 1.500        | 38.1 | 0.750    | 19.1 | 100           |
| UMS-32-45A-RT | UMS-32-45    | 50                        | 23 | 2.000        | 50.8 | 1.000    | 25.4 | 100           |

UCG Series  
Universal Cable Grip

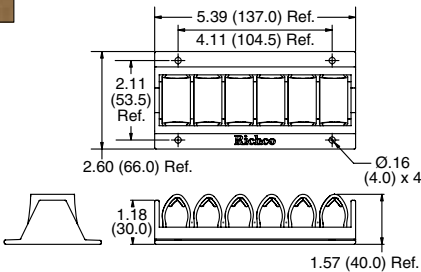


Specifications:

- Base Material: High-Density Polyethylene
- Insert Material: TPE
- Color: Black

Features:

- Pressure grips accommodate up to 7 cable bundles
- Cable grips are easily removed from the frame to accommodate larger cable bundles
- Cables are pushed into the product by hand and are easily removed
- Mount to panel using #6 or M3.5 screws



| Item No. | Max Cable Ø Bundle Ref (7 Positions) |     | Max Cable Ø Bundle Ref (5 Center Positions Only) |      | Bulk Pack Qty |
|----------|--------------------------------------|-----|--------------------------------------------------|------|---------------|
|          | in                                   | mm  | in                                               | mm   |               |
| UCG-6BK  | 0.08                                 | 2.0 | 0.630                                            | 16.0 | 125           |

# PLASTIC FASTENERS

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CABLE TIES

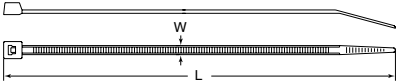
CT/WITA Series  
Nylon Locking Cable Tie

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Complies with MS-3367 & MIL-S-23190E
- Service Temperature: -40°F to 185°F (-40°C to 85°C)
- UL 181B-C for UL non-metallic air ducts and connectors on CT080A, CT080B, CT082A & CT082B: recommended for use with R-6 & R-8 flex ducts found on page 101



| Item No.    |        |          | L Ref. |        | W Ref. |     | Ø Max Bundle |       | Tensile Strength |     | Classification | Bulk Pack Qty |
|-------------|--------|----------|--------|--------|--------|-----|--------------|-------|------------------|-----|----------------|---------------|
| Natural     | Black  | Approval | in     | mm     | in     | mm  | in           | mm    | lbs              | N   |                |               |
| CT001A      | CT001B | UL       | 3.000  | 75.0   | 0.095  | 2.4 | 0.710        | 18.0  | 18               | 80  | Miniature      | 100           |
| CT002A      | CT002B | UL       | 3.750  | 96.0   | 0.098  | 2.4 | 0.910        | 23.0  | 18               | 80  | Miniature      | 100           |
| WITA-18SF-M | —      | UL       | 3.850  | 97.8   | 0.100  | 2.5 | 0.870        | 22.0  | 18               | 80  | Miniature      | 1000          |
| CT003A      | CT003E | UL       | 4.000  | 100.0  | 0.098  | 2.4 | 0.980        | 25.0  | 18               | 80  | Miniature      | 100           |
| WITA-18R-M  | —      | UL       | 4.720  | 120.0  | 0.100  | 2.5 | 1.060        | 26.9  | 18               | 80  | Miniature      | 1000          |
| CT004A      | CT004B | UL       | 4.750  | 120.0  | 0.098  | 2.5 | 1.180        | 30.0  | 18               | 80  | Miniature      | 100           |
| CT005A      | CT005B | UL       | 5.500  | 142.0  | 0.098  | 2.5 | 1.380        | 35.0  | 18               | 80  | Miniature      | 100           |
| WITA-18L-M  | —      | UL       | 5.900  | 150.0  | 0.100  | 2.5 | 1.460        | 37.1  | 18               | 80  | Miniature      | 1000          |
| CT006A      | CT006B | UL       | 6.500  | 165.0  | 0.098  | 2.5 | 1.730        | 44.0  | 18               | 80  | Miniature      | 100           |
| WITA-18V-M  | —      | UL       | 7.870  | 200.0  | 0.100  | 2.5 | 2.130        | 54.1  | 18               | 80  | Miniature      | 1000          |
| CT007A      | CT007B | UL       | 8.000  | 203.0  | 0.098  | 2.5 | 2.170        | 55.0  | 18               | 80  | Miniature      | 100           |
| WITA-18X-M  | —      | UL       | 15.750 | 400.0  | 0.100  | 2.5 | 4.560        | 116.0 | 18               | 80  | Miniature      | 1000          |
| CT008A      | CT008B | UL       | 4.750  | 120.0  | 0.126  | 3.2 | 1.180        | 40.0  | 40               | 178 | Intermediate   | 100           |
| CT009A      | CT009B | UL       | 5.500  | 142.0  | 0.126  | 3.2 | 1.380        | 40.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40R-C  | —      | UL       | 5.910  | 150.0  | 0.140  | 3.6 | 1.480        | 37.6  | 40               | 178 | Intermediate   | 100           |
| WITA-40R-M  | —      | UL       | 5.910  | 150.0  | 0.140  | 3.6 | 1.480        | 37.6  | 40               | 178 | Intermediate   | 1000          |
| CT010A      | CT010B | UL       | 6.000  | 150.0  | 0.142  | 3.6 | 1.540        | 39.0  | 40               | 178 | Intermediate   | 100           |
| CT020A      | CT020B | UL       | 7.000  | 180.0  | 0.141  | 3.6 | 1.930        | 49.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40L-M  | —      | UL       | 7.870  | 200.0  | 0.140  | 3.6 | 2.050        | 52.0  | 40               | 178 | Intermediate   | 1000          |
| CT011A      | CT011B | UL       | 8.000  | 203.0  | 0.126  | 3.2 | 2.170        | 40.0  | 40               | 178 | Intermediate   | 100           |
| CT012A      | CT012C | UL       | 8.000  | 203.0  | 0.142  | 3.6 | 2.170        | 55.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40XL-M | —      | UL       | 8.070  | 205.0  | 0.140  | 3.6 | 2.100        | 53.3  | 40               | 178 | Intermediate   | 1000          |
| CT013A      | CT013B | UL       | 10.000 | 250.0  | 0.142  | 3.6 | 2.910        | 74.0  | 40               | 178 | Intermediate   | 100           |
| CT014A      | CT014B | UL       | 10.500 | 265.0  | 0.142  | 3.6 | 3.070        | 78.0  | 40               | 178 | Intermediate   | 100           |
| CT015A      | CT015B | UL       | 11.500 | 292.0  | 0.142  | 3.6 | 3.350        | 85.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40VL-M | —      | UL       | 11.810 | 300.0  | 0.140  | 3.6 | 3.270        | 83.0  | 40               | 178 | Intermediate   | 1000          |
| CT016A      | CT016B | UL       | 13.000 | 330.0  | 0.142  | 3.6 | 3.780        | 96.0  | 40               | 178 | Intermediate   | 100           |
| CT017A      | CT017B | UL       | 14.500 | 368.0  | 0.142  | 3.6 | 4.020        | 102.0 | 40               | 178 | Intermediate   | 100           |
| CT018A      | CT018B | UL       | 4.750  | 120.0  | 0.189  | 4.8 | 1.180        | 30.0  | 50               | 222 | Standard       | 100           |
| WITA-50S-M  | —      | UL       | 6.300  | 160.0  | 0.180  | 4.6 | 1.520        | 38.7  | 50               | 222 | Standard       | 1000          |
| CT019A      | CT019B | UL       | 6.500  | 160.0  | 0.189  | 4.8 | 1.650        | 42.0  | 50               | 222 | Standard       | 100           |
| CT021A      | CT021B | UL       | 7.500  | 190.0  | 0.189  | 4.8 | 2.050        | 52.0  | 50               | 222 | Standard       | 100           |
| WITA-50R-M  | —      | UL       | 7.900  | 200.7  | 0.180  | 4.6 | 1.950        | 49.5  | 50               | 222 | Standard       | 1000          |
| CT022A      | CT022B | UL       | 8.000  | 203.0  | 0.181  | 4.6 | 2.170        | 55.0  | 50               | 222 | Standard       | 100           |
| CT023A      | CT023B | UL       | 10.000 | 250.0  | 0.189  | 4.8 | 2.910        | 74.0  | 50               | 222 | Standard       | 100           |
| CT024A      | CT024B | UL       | 11.000 | 280.0  | 0.189  | 4.8 | 3.190        | 81.0  | 50               | 222 | Standard       | 100           |
| WITA-50RL-M | —      | UL       | 11.020 | 280.0  | 0.190  | 4.8 | 3.030        | 77.0  | 50               | 222 | Standard       | 1000          |
| CT025A      | CT025B | UL       | 11.875 | 300.0  | 0.189  | 4.8 | 3.350        | 85.0  | 50               | 222 | Standard       | 100           |
| CT026A      | CT026B | UL       | 12.250 | 310.0  | 0.189  | 4.8 | 3.500        | 89.0  | 50               | 222 | Standard       | 100           |
| CT027A      | CT027B | UL       | 14.500 | 368.0  | 0.189  | 4.8 | 4.020        | 102.0 | 50               | 222 | Standard       | 100           |
| CT028A      | CT028B | UL       | 15.250 | 385.0  | 0.189  | 4.8 | 4.570        | 116.0 | 50               | 222 | Standard       | 100           |
| WITA-50L-M  | —      | UL       | 15.750 | 400.0  | 0.180  | 4.6 | 4.450        | 113.0 | 50               | 222 | Standard       | 1000          |
| CT029A      | CT029B | UL       | 17.000 | 432.0  | 0.189  | 4.8 | 4.920        | 125.0 | 50               | 222 | Standard       | 100           |
| CT030A      | CT030B | UL       | 17.750 | 450.0  | 0.189  | 4.8 | 5.120        | 130.0 | 50               | 222 | Standard       | 100           |
| CT031A      | CT031B | UL       | 19.687 | 500.0  | 0.189  | 4.8 | 5.910        | 150.0 | 50               | 222 | Standard       | 100           |
| CT033A      | CT033B | —        | 21.687 | 550.0  | 0.189  | 4.8 | 6.540        | 166.0 | 50               | 222 | Standard       | 100           |
| WITA-50XL-C | —      | UL       | 25.000 | 635.0  | 0.190  | 4.8 | 7.480        | 190.0 | 50               | 222 | Standard       | 100           |
| CT063A      | CT063B | —        | 36.000 | 914.0  | 0.189  | 4.8 | 10.630       | 270.0 | 50               | 222 | Standard       | 100           |
| CT064A      | CT064B | —        | 4.750  | 120.0  | 0.299  | 7.6 | 1.180        | 30.0  | 120              | 534 | Heavy Duty     | 100           |
| CT065A      | CT065B | —        | 6.000  | 150.0  | 0.299  | 7.6 | 1.540        | 39.0  | 120              | 534 | Heavy Duty     | 100           |
| CT066A      | CT066B | UL       | 8.000  | 203.0  | 0.299  | 7.6 | 2.170        | 55.0  | 120              | 534 | Heavy Duty     | 100           |
| WITA-120S-D | —      | UL       | 8.600  | 218.0  | 0.300  | 7.6 | 2.010        | 51.0  | 120              | 534 | Heavy Duty     | 500           |
| CT067A      | CT067B | UL       | 9.437  | 240.0  | 0.299  | 7.6 | 2.600        | 66.0  | 120              | 534 | Heavy Duty     | 100           |
| CT068A      | CT068B | UL       | 11.000 | 280.0  | 0.299  | 7.6 | 3.070        | 78.0  | 120              | 534 | Heavy Duty     | 100           |
| CT069A      | CT069B | UL       | 11.750 | 300.0  | 0.299  | 7.6 | 3.460        | 88.0  | 120              | 534 | Heavy Duty     | 100           |
| CT070A      | CT070B | UL       | 13.500 | 340.0  | 0.299  | 7.6 | 3.900        | 99.0  | 120              | 534 | Heavy Duty     | 100           |
| CT071A      | CT071B | —        | 15.000 | 380.0  | 0.252  | 6.4 | 4.330        | 110.0 | 100              | 445 | Heavy Duty     | 100           |
| CT072A      | CT072B | UL       | 15.000 | 380.0  | 0.299  | 7.6 | 4.330        | 110.0 | 120              | 534 | Heavy Duty     | 100           |
| WITA-120R-D | —      | UL       | 15.750 | 400.0  | 0.310  | 7.8 | 4.450        | 113.0 | 120              | 534 | Heavy Duty     | 500           |
| CT073A      | CT073B | UL       | 17.750 | 450.0  | 0.315  | 8.0 | 5.240        | 133.0 | 120              | 534 | Heavy Duty     | 100           |
| WITA-120L-D | —      | UL       | 21.650 | 550.0  | 0.310  | 7.8 | 6.380        | 162.0 | 120              | 534 | Heavy Duty     | 500           |
| CT074A      | CT074B | UL       | 21.687 | 550.0  | 0.315  | 8.0 | 6.540        | 166.0 | 175              | 778 | Heavy Duty     | 100           |
| WITA-175R-L | —      | UL       | 24.000 | 610.0  | 0.350  | 9.0 | 7.020        | 178.0 | 175              | 778 | Heavy Duty     | 50            |
| CT075A      | CT075B | UL       | 24.000 | 610.0  | 0.354  | 9.0 | 7.280        | 185.0 | 175              | 778 | Heavy Duty     | 100           |
| CT076A      | CT076B | UL       | 27.000 | 685.0  | 0.354  | 9.0 | 8.270        | 210.0 | 175              | 778 | Heavy Duty     | 100           |
| CT077A      | CT077B | UL       | 28.000 | 710.0  | 0.354  | 9.0 | 8.660        | 220.0 | 175              | 778 | Heavy Duty     | 100           |
| CT078A      | CT078B | UL       | 30.000 | 762.0  | 0.354  | 9.0 | 9.290        | 236.0 | 175              | 778 | Heavy Duty     | 100           |
| CT079A      | CT079B | UL       | 32.000 | 812.0  | 0.354  | 9.0 | 9.690        | 246.0 | 175              | 778 | Heavy Duty     | 100           |
| CT080A      | CT080B | UL       | 36.000 | 914.0  | 0.354  | 9.0 | 10.630       | 270.0 | 175              | 778 | Heavy Duty     | 100           |
| WITA-175L-Q | —      | UL       | 36.000 | 914.0  | 0.350  | 9.0 | 10.910       | 277.0 | 175              | 778 | Heavy Duty     | 25            |
| CT081A      | CT081B | UL       | 46.000 | 1168.0 | 0.354  | 9.0 | 14.170       | 360.0 | 175              | 778 | Heavy Duty     | 100           |
| CT082A      | CT082B | UL       | 48.000 | 1219.0 | 0.354  | 9.0 | 15.000       | 380.0 | 175              | 778 | Heavy Duty     | 100           |
| CT084A      | CT084B | UL       | 59.000 | 1500.0 | 0.354  | 9.0 | 18.270       | 464.0 | 175              | 778 | Heavy Duty     | 100           |



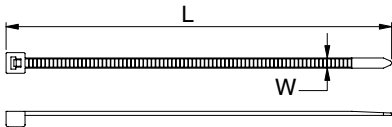
CTWR/WITA Series  
Weather Resistant Locking Cable Tie

Specifications:

- Material: UL94 V-2 UV Stabilized Nylon 6/6
- Color: Black

Features:

- Service Temperature: -40°F to 185°F (-40°C to 85°C)
- Designed for outdoor applications



| Item No.        | Approval | L Ref. |       | W Ref. |     | Ø Max Bundle |       | Tensile Strength |     | Classification | Bulk Pack Qty |
|-----------------|----------|--------|-------|--------|-----|--------------|-------|------------------|-----|----------------|---------------|
|                 |          | in     | mm    | in     | mm  | in           | mm    | lbs              | N   |                |               |
| CTWR002A        | UL       | 3.750  | 96.0  | 0.098  | 2.4 | 0.910        | 23.0  | 18               | 80  | Miniature      | 100           |
| WITA-18SF-UVB-M | UL       | 3.850  | 97.8  | 0.100  | 2.5 | 0.870        | 22.0  | 18               | 80  | Miniature      | 1000          |
| CTWR003A        | UL       | 4.000  | 100.0 | 0.098  | 2.4 | 0.980        | 25.0  | 18               | 80  | Miniature      | 100           |
| WITA-18R-UVB-M  | UL       | 4.720  | 120.0 | 0.100  | 2.5 | 1.060        | 26.9  | 18               | 80  | Miniature      | 1000          |
| CTWR004A        | UL       | 4.750  | 120.0 | 0.098  | 2.5 | 1.180        | 30.0  | 18               | 80  | Miniature      | 100           |
| WITA-18L-UVB-M  | UL       | 5.900  | 150.0 | 0.100  | 2.5 | 1.460        | 37.1  | 18               | 80  | Miniature      | 1000          |
| CTWR006A        | UL       | 6.500  | 165.0 | 0.098  | 2.5 | 1.730        | 44.0  | 18               | 80  | Miniature      | 100           |
| WITA-18V-UVB-M  | UL       | 7.870  | 200.0 | 0.100  | 2.5 | 2.130        | 54.1  | 18               | 80  | Miniature      | 1000          |
| CTWR007A        | UL       | 8.000  | 203.0 | 0.098  | 2.5 | 2.170        | 55.0  | 18               | 80  | Miniature      | 100           |
| WITA-18X-UVB-M  | UL       | 15.750 | 400.0 | 0.100  | 2.5 | 4.560        | 116.0 | 18               | 80  | Miniature      | 1000          |
| CTWR008A        | UL       | 4.750  | 120.0 | 0.126  | 3.2 | 1.180        | 30.0  | 40               | 178 | Intermediate   | 100           |
| CTWR009A        | UL       | 5.500  | 142.0 | 0.126  | 3.2 | 1.380        | 35.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40R-UVB-C  | UL       | 5.910  | 150.0 | 0.140  | 3.6 | 1.480        | 37.6  | 40               | 178 | Intermediate   | 100           |
| WITA-40L-UVB-M  | UL       | 7.870  | 200.0 | 0.140  | 3.6 | 2.050        | 52.0  | 40               | 178 | Intermediate   | 1000          |
| CTWR010A        | UL       | 8.000  | 203.0 | 0.126  | 3.2 | 2.170        | 55.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40XL-UVB-M | UL       | 8.070  | 205.0 | 0.140  | 3.6 | 2.100        | 53.3  | 40               | 178 | Intermediate   | 1000          |
| CTWR011A        | UL       | 6.000  | 150.0 | 0.142  | 3.6 | 1.540        | 39.0  | 40               | 178 | Intermediate   | 100           |
| CTWR012A        | UL       | 8.000  | 203.0 | 0.142  | 3.6 | 2.170        | 55.0  | 40               | 178 | Intermediate   | 100           |
| CTWR013A        | UL       | 10.000 | 250.0 | 0.142  | 3.6 | 2.910        | 74.0  | 40               | 178 | Intermediate   | 100           |
| CTWR014A        | UL       | 10.500 | 265.0 | 0.142  | 3.6 | 3.070        | 78.0  | 40               | 178 | Intermediate   | 100           |
| CTWR015A        | UL       | 11.500 | 292.0 | 0.142  | 3.6 | 3.350        | 85.0  | 40               | 178 | Intermediate   | 100           |
| WITA-40VL-UVB-M | UL       | 11.810 | 300.0 | 0.140  | 3.6 | 3.270        | 83.0  | 40               | 178 | Intermediate   | 1000          |
| CTWR016A        | UL       | 13.000 | 330.0 | 0.142  | 3.6 | 3.780        | 96.0  | 40               | 178 | Intermediate   | 100           |
| CTWR017A        | UL       | 14.500 | 368.0 | 0.142  | 3.6 | 4.020        | 102.0 | 40               | 178 | Intermediate   | 100           |
| CTWR018A        | UL       | 7.000  | 180.0 | 0.142  | 3.6 | 1.930        | 49.0  | 40               | 178 | Intermediate   | 100           |
| WITA-50S-UVB-M  | UL       | 6.300  | 160.0 | 0.180  | 4.6 | 1.520        | 38.7  | 50               | 222 | Standard       | 1000          |
| WITA-50R-UVB-M  | UL       | 7.900  | 200.7 | 0.180  | 4.6 | 1.950        | 49.5  | 50               | 222 | Standard       | 1000          |
| CTWR019A        | UL       | 8.000  | 203.0 | 0.181  | 4.6 | 2.170        | 55.0  | 50               | 222 | Standard       | 100           |
| CTWR020A        | UL       | 4.750  | 120.0 | 0.189  | 4.8 | 1.180        | 30.0  | 50               | 222 | Standard       | 100           |
| CTWR021A        | UL       | 6.500  | 160.0 | 0.189  | 4.8 | 1.650        | 42.0  | 50               | 222 | Standard       | 100           |
| CTWR022A        | UL       | 7.500  | 190.0 | 0.189  | 4.8 | 2.050        | 52.0  | 50               | 222 | Standard       | 100           |
| CTWR023A        | UL       | 10.000 | 250.0 | 0.189  | 4.8 | 2.910        | 74.0  | 50               | 222 | Standard       | 100           |
| CTWR024A        | UL       | 11.000 | 280.0 | 0.189  | 4.8 | 3.190        | 81.0  | 50               | 222 | Standard       | 100           |
| WITA-50RL-UVB-M | UL       | 11.020 | 280.0 | 0.190  | 4.8 | 3.030        | 77.0  | 50               | 222 | Standard       | 1000          |
| CTWR025A        | —        | 11.875 | 300.0 | 0.189  | 4.8 | 3.350        | 85.0  | 50               | 222 | Standard       | 100           |
| CTWR026A        | UL       | 12.250 | 310.0 | 0.189  | 4.8 | 3.500        | 89.0  | 50               | 222 | Standard       | 100           |
| CTWR027A        | UL       | 14.500 | 368.0 | 0.189  | 4.8 | 4.020        | 102.0 | 50               | 222 | Standard       | 100           |
| CTWR028A        | UL       | 15.187 | 385.0 | 0.189  | 4.8 | 4.570        | 116.0 | 50               | 222 | Standard       | 100           |
| WITA-50L-UVB-M  | UL       | 15.750 | 391.2 | 0.180  | 4.6 | 4.520        | 114.8 | 50               | 222 | Standard       | 1000          |
| CTWR029A        | UL       | 17.000 | 432.0 | 0.189  | 4.8 | 4.920        | 125.0 | 50               | 222 | Standard       | 100           |
| CTWR030A        | UL       | 17.750 | 450.0 | 0.189  | 4.8 | 5.120        | 130.0 | 50               | 222 | Standard       | 100           |
| CTWR031A        | UL       | 19.687 | 500.0 | 0.189  | 4.8 | 5.910        | 150.0 | 50               | 222 | Standard       | 100           |
| CTWR033A        | —        | 21.687 | 550.0 | 0.189  | 4.8 | 6.540        | 166.0 | 50               | 222 | Standard       | 100           |
| WITA-50XL-UVB-C | UL       | 25.000 | 635.0 | 0.190  | 4.8 | 7.480        | 190.0 | 50               | 222 | Standard       | 100           |
| CTWR063A        | —        | 36.000 | 914.0 | 0.189  | 4.8 | 10.630       | 270.0 | 50               | 222 | Standard       | 100           |
| CTWR064A        | —        | 4.750  | 120.0 | 0.299  | 7.6 | 1.180        | 30.0  | 120              | 534 | Heavy Duty     | 100           |
| CTWR065A        | —        | 6.000  | 150.0 | 0.299  | 7.6 | 1.540        | 39.0  | 120              | 534 | Heavy Duty     | 100           |
| CTWR066A        | UL       | 8.000  | 203.0 | 0.299  | 7.6 | 2.170        | 55.0  | 120              | 534 | Heavy Duty     | 100           |
| WITA-120S-UVB-D | UL       | 8.600  | 218.0 | 0.300  | 7.6 | 2.010        | 51.0  | 120              | 534 | Heavy Duty     | 500           |
| CTWR067A        | UL       | 9.437  | 240.0 | 0.299  | 7.6 | 2.600        | 66.0  | 120              | 534 | Heavy Duty     | 100           |
| CTWR068A        | UL       | 11.000 | 280.0 | 0.299  | 7.6 | 3.070        | 78.0  | 120              | 534 | Heavy Duty     | 100           |
| CTWR069A        | UL       | 11.875 | 300.0 | 0.299  | 7.6 | 3.500        | 88.0  | 120              | 534 | Heavy Duty     | 100           |
| CTWR070A        | UL       | 13.500 | 340.0 | 0.299  | 7.6 | 3.900        | 99.0  | 120              | 534 | Heavy Duty     | 100           |
| CTWR071A        | —        | 15.000 | 380.0 | 0.252  | 6.4 | 4.330        | 110.0 | 100              | 445 | Heavy Duty     | 100           |
| CTWR072A        | UL       | 15.000 | 380.0 | 0.299  | 7.6 | 4.330        | 110.0 | 120              | 534 | Heavy Duty     | 100           |
| WITA-120R-UVB-D | UL       | 15.750 | 400.0 | 0.310  | 7.8 | 4.450        | 113.0 | 120              | 534 | Heavy Duty     | 500           |
| WITA-120L-UVB-D | UL       | 21.650 | 550.0 | 0.310  | 7.8 | 6.380        | 162.0 | 120              | 534 | Heavy Duty     | 500           |
| CTWR073A        | UL       | 17.750 | 450.0 | 0.315  | 8.0 | 5.250        | 133.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR074A        | UL       | 21.875 | 550.0 | 0.315  | 8.0 | 6.500        | 166.0 | 175              | 778 | Heavy Duty     | 100           |
| WITA-175L-UVB-L | UL       | 24.000 | 610.0 | 0.350  | 9.0 | 7.020        | 178.0 | 175              | 778 | Heavy Duty     | 50            |
| CTWR075A        | UL       | 24.000 | 610.0 | 0.354  | 9.0 | 7.280        | 185.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR076A        | UL       | 27.000 | 680.0 | 0.354  | 9.0 | 8.270        | 210.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR077A        | UL       | 28.000 | 705.0 | 0.354  | 9.0 | 8.660        | 220.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR079A        | UL       | 32.000 | 812.0 | 0.354  | 9.0 | 9.690        | 246.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR080A        | UL       | 36.000 | 914.0 | 0.354  | 9.0 | 10.630       | 270.0 | 175              | 778 | Heavy Duty     | 100           |
| WITA-175L-UVB-Q | UL       | 36.000 | 914.0 | 0.350  | 9.0 | 10.910       | 277.0 | 175              | 778 | Heavy Duty     | 25            |
| CTWR081A        | UL       | 46.000 | 1168  | 0.354  | 9.0 | 14.170       | 360.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR082A        | UL       | 48.000 | 1219  | 0.354  | 9.0 | 15.000       | 380.0 | 175              | 778 | Heavy Duty     | 100           |
| CTWR084A        | —        | 59.000 | 1500  | 0.354  | 9.0 | 18.270       | 464.0 | 175              | 778 | Heavy Duty     | 100           |



## CABLE TIES

### CTHD Series

#### Extra Heavy Duty Cable Tie

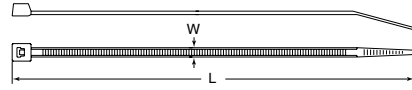


##### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

##### Features:

- Service Temperature: -40°F to 185°F (-40°C to 85°C)
- High tensile strength for demanding applications



| Item No. |          |          |          | L     |        | W     |      | Ø Max Bundle |       | Tensile Strength |      | Classification   | Bulk Pack Qty |
|----------|----------|----------|----------|-------|--------|-------|------|--------------|-------|------------------|------|------------------|---------------|
| Natural  | Approval | Black    | Approval | in    | mm     | in    | mm   | in           | mm    | lbs              | N    |                  |               |
| CTHD001A | UL       | CTHD001B | —        | 9.06  | 230.0  | 0.500 | 12.7 | 2.480        | 63.0  | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD002A | UL       | CTHD002B | —        | 11.02 | 280.0  | 0.500 | 12.7 | 3.150        | 80.0  | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD003A | UL       | CTHD003B | —        | 14.96 | 380.0  | 0.500 | 12.7 | 4.330        | 110.0 | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD004A | —        | CTHD004B | —        | 18.90 | 480.0  | 0.500 | 12.7 | 5.510        | 140.0 | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD005A | UL       | CTHD005B | UL       | 21.65 | 550.0  | 0.500 | 12.7 | 6.540        | 166.0 | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD006A | —        | CTHD006B | —        | 22.83 | 580.0  | 0.500 | 12.7 | 6.890        | 175.0 | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD007A | —        | CTHD007B | —        | 28.74 | 730.0  | 0.500 | 12.7 | 8.860        | 225.0 | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD008A | —        | CTHD008B | —        | 34.65 | 880.0  | 0.500 | 12.7 | 10.510       | 267.0 | 250              | 1113 | Extra Heavy Duty | 100           |
| CTHD009A | —        | CTHD009B | —        | 40.55 | 1030.0 | 0.500 | 12.7 | 12.480       | 317.0 | 250              | 1113 | Extra Heavy Duty | 100           |

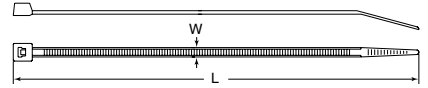
### CT Series

#### Colored Locking Cable Tie



##### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table



| Item No. |        |        |        |        |          | L Ref. |       | W Ref. |     | Ø Max Bundle |       | Tensile Strength |     | Classification | Bulk Pack Qty |
|----------|--------|--------|--------|--------|----------|--------|-------|--------|-----|--------------|-------|------------------|-----|----------------|---------------|
| Green    | Red    | Yellow | Blue   | Silver | Approval | in     | mm    | in     | mm  | in           | mm    | lbs              | N   |                |               |
| CT003G   | CT003K | CT003Y | CT003L | CT003S | UL       | 3.94   | 100.0 | 0.098  | 2.5 | 0.980        | 25.0  | 18               | 80  | Miniature      | 100           |
| CT007G   | CT007K | CT007Y | CT007L | CT007S | UL       | 8.00   | 203.0 | 0.098  | 2.5 | 2.170        | 55.0  | 18               | 80  | Miniature      | 100           |
| CT010G   | CT010K | CT010Y | CT010L | CT010S | UL       | 5.91   | 150.0 | 0.142  | 3.6 | 1.540        | 39.0  | 40               | 178 | Intermediate   | 100           |
| CT013G   | CT013K | CT013Y | CT013L | CT013S | UL       | 9.84   | 250.0 | 0.142  | 3.6 | 2.910        | 74.0  | 40               | 178 | Intermediate   | 100           |
| CT022G   | CT022K | CT022Y | CT022L | CT022S | UL       | 8.00   | 203.0 | 0.181  | 4.6 | 2.170        | 55.0  | 50               | 222 | Standard       | 100           |
| CT025G   | CT025K | CT025Y | CT025L | CT025S | UL       | 11.81  | 300.0 | 0.189  | 4.8 | 3.350        | 85.0  | 50               | 222 | Standard       | 100           |
| CT027G   | CT027K | CT027Y | CT027L | CT027S | UL       | 14.49  | 368.0 | 0.189  | 4.8 | 4.020        | 102.0 | 50               | 222 | Standard       | 100           |
| CT072G   | CT072K | CT072Y | CT072L | CT072S | UL       | 14.96  | 380.0 | 0.299  | 7.6 | 4.330        | 110.0 | 120              | 534 | Heavy Duty     | 100           |

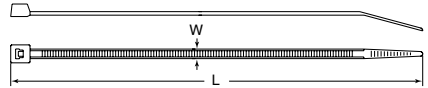
### Polypropylene Locking Cable Tie

##### Specifications:

- Material: Polypropylene
- Color: Black

##### Features:

- Excellent chemical resistance
- Moisture levels are relatively unaffected by variations in moisture levels
- Buoyant



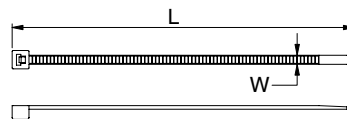
| Item No. | L Ref. |       | W Ref. |     | Ø Max Bundle |       | Tensile Strength |     | Bulk Pack Qty |
|----------|--------|-------|--------|-----|--------------|-------|------------------|-----|---------------|
|          | in     | mm    | in     | mm  | in           | mm    | lbs              | N   |               |
| 1293369  | 5.90   | 150.0 | 0.14   | 3.6 | 1.42         | 36.1  | 18               | 80  | 100           |
| 1293370  | 8.00   | 203.0 | 0.18   | 4.6 | 2.05         | 52.1  | 22               | 98  | 100           |
| 1293371  | 9.84   | 250.0 | 0.19   | 4.8 | 2.68         | 68.1  | 22               | 98  | 100           |
| 1293372  | 9.49   | 240.0 | 0.29   | 7.4 | 2.40         | 61.0  | 50               | 222 | 100           |
| 1293373  | 11.81  | 300.0 | 0.30   | 7.6 | 3.15         | 80.0  | 50               | 222 | 100           |
| 1293374  | 14.96  | 380.0 | 0.30   | 7.6 | 4.13         | 104.9 | 50               | 222 | 100           |
| 1293375  | 21.65  | 550.0 | 0.31   | 7.9 | 6.30         | 160   | 50               | 222 | 100           |

### WITA-V0 Series

#### UL94 V-0 Locking Cable Tie

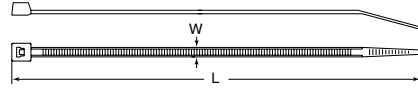
##### Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural



| Item No.      | L Ref. |       | W Ref. |     | Ø Max Bundle |      | Tensile Strength |     | Bulk Pack Qty |
|---------------|--------|-------|--------|-----|--------------|------|------------------|-----|---------------|
|               | in     | mm    | in     | mm  | in           | mm   | lbs              | N   |               |
| WITA-18R-V0-M | 4.72   | 120.0 | 0.100  | 2.5 | 1.060        | 26.9 | 18               | 80  | 1000          |
| WITA-50R-V0-M | 7.90   | 200.7 | 0.180  | 4.6 | 1.950        | 49.5 | 50               | 222 | 1000          |

## CABLE TIES &amp; INSTALLATION TOOLS


**CTHS/WITA-HS Series**  
**Heat Stabilized Cable Tie**


## Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon 6/6
- Color: Black

## Features:

- Service Temperature: -40°F to 221°F (-40°C to 105°C)
- Suitable for higher temperature applications



| Item No.       | Approval | L Ref. |       | W Ref. |     | Ø Max Bundle |       | Tensile Strength |     | Classification | Bulk Pack Qty |
|----------------|----------|--------|-------|--------|-----|--------------|-------|------------------|-----|----------------|---------------|
|                |          | in     | mm    | in     | mm  | in           | mm    | lbs              | N   |                |               |
| CT003F         | UL       | 3.94   | 100.0 | 0.098  | 2.5 | 0.980        | 25.0  | 18               | 80  | Miniature      | 100           |
| WITA-18R-HS-M  | —        | 4.72   | 120.0 | 0.100  | 2.5 | 1.060        | 26.9  | 18               | 80  | Miniature      | 1000          |
| CT005C         | UL       | 5.59   | 142.0 | 0.098  | 2.5 | 1.380        | 35.0  | 18               | 80  | Miniature      | 100           |
| CT007C         | UL       | 8.00   | 203.0 | 0.098  | 2.5 | 2.170        | 55.0  | 18               | 80  | Miniature      | 100           |
| WITA-40R-HS-M  | —        | 5.91   | 150.0 | 0.140  | 3.6 | 1.480        | 37.6  | 40               | 178 | Intermediate   | 1000          |
| CT012D         | UL       | 8.00   | 203.0 | 0.142  | 3.6 | 2.170        | 55.0  | 40               | 178 | Intermediate   | 100           |
| CT015C         | UL       | 11.50  | 292.0 | 0.142  | 3.6 | 3.350        | 85.0  | 40               | 178 | Intermediate   | 100           |
| CT018C         | UL       | 4.72   | 120.0 | 0.189  | 4.8 | 1.180        | 30.0  | 50               | 222 | Standard       | 100           |
| CT019C         | UL       | 6.30   | 160.0 | 0.189  | 4.8 | 1.650        | 42.0  | 50               | 222 | Standard       | 100           |
| CT021C         | UL       | 7.48   | 190.0 | 0.189  | 4.8 | 2.050        | 52.0  | 50               | 222 | Standard       | 100           |
| WITA-50R-HS-M  | —        | 7.90   | 200.7 | 0.180  | 4.6 | 1.950        | 49.5  | 50               | 222 | Standard       | 1000          |
| CT022C         | UL       | 8.00   | 203.0 | 0.181  | 4.6 | 2.170        | 55.0  | 50               | 222 | Standard       | 100           |
| CT024C         | UL       | 11.02  | 280.0 | 0.189  | 4.8 | 3.190        | 81.0  | 50               | 222 | Standard       | 100           |
| WITA-50RL-HS-M | —        | 11.02  | 280.0 | 0.190  | 4.8 | 3.030        | 77.0  | 50               | 222 | Standard       | 1000          |
| CT025C         | UL       | 11.81  | 300.0 | 0.189  | 4.8 | 3.350        | 85.0  | 50               | 222 | Standard       | 100           |
| CT027F         | UL       | 14.49  | 368.0 | 0.189  | 4.8 | 4.020        | 102.0 | 50               | 222 | Standard       | 100           |
| CT029F         | UL       | 17.00  | 432.0 | 0.189  | 4.8 | 4.920        | 125.0 | 50               | 222 | Standard       | 100           |
| CT033C         | UL       | 21.65  | 550.0 | 0.189  | 4.8 | 6.540        | 166.0 | 50               | 222 | Standard       | 100           |
| CT067C         | UL       | 9.45   | 240.0 | 0.299  | 7.6 | 2.600        | 66.0  | 120              | 534 | Heavy Duty     | 100           |
| CT072C         | UL       | 14.96  | 380.0 | 0.299  | 7.6 | 4.330        | 110.0 | 120              | 534 | Heavy Duty     | 100           |
| CT075C         | UL       | 24.02  | 610.0 | 0.354  | 9.0 | 7.280        | 185.0 | 175              | 778 | Heavy Duty     | 100           |

**CTG Series**  
**Cable Tie Installation Tools**


Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

| Item No. | Figure | Used with Cable Ties | Features:                                                                                   | Pack Qty |
|----------|--------|----------------------|---------------------------------------------------------------------------------------------|----------|
| WIT-1    | 1      | 18 - 50 lbs          | Lightweight for job site installations and repairs                                          | 1        |
| WIT-2A   | 2      | 18 - 50 lbs          | Heavy duty construction - cuts tie flush when adjustable preset bundling tension is reached | 1        |
| CTG004A  | 3      | 50 - 175 lbs         | Heavy duty construction                                                                     | 1        |
| WIT-3A   | 4      | 18 - 50 lbs          | Economy model - glass reinforced Nylon for lightweight durability                           | 1        |
| CTG010A  | 5      | Stainless Steel      | Tightens and cuts locking Stainless Steel ties                                              | 1        |
| MTG-1    | 6      | Stainless Steel      | Tightens and cuts locking Stainless Steel ties                                              | 1        |

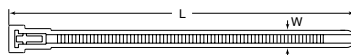
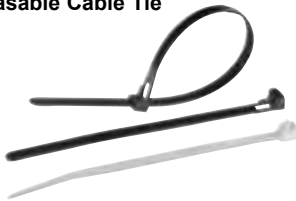
**CTR/WIT-RT Series**  
**Standard Releasable Cable Tie**


Figure 1

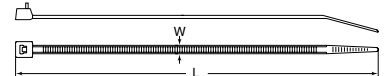


Figure 2

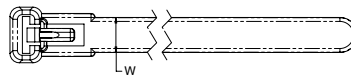


Figure 3

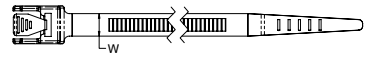


Figure 4

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

## Features:

- Ties remain locked until intentionally released using release tab
- Great for temporary bundling purposes or future changes

| Item No.      |         | Black UV Stabilized Nylon 6/6 | Approval | Figure | L Ref. |       | W Ref. |      | Ø Max Bundle |       | Tensile Strength |      | Bulk Pack Qty |
|---------------|---------|-------------------------------|----------|--------|--------|-------|--------|------|--------------|-------|------------------|------|---------------|
| Natural       | Black   |                               |          |        | in     | mm    | in     | mm   | in           | mm    | lbs              | N    |               |
| WIT-RT-1-M    | —       | WIT-RT-1-UVB-M                | —        | 3      | 8.093  | 206.0 | 0.300  | 7.6  | 1.875        | 48.0  | 30               | 133  | 1000          |
| WIT-RT-0550-M | —       | WITRT-0550-UV-M               | UL       | 4      | 5.500  | 139.7 | 0.210  | 5.3  | 1.250        | 31.8  | 40               | 178  | 1000          |
| WIT-RT-0800-M | —       | WITRT-0800-UV-M               | UL       | 4      | 8.000  | 203.2 | 0.210  | 5.3  | 2.000        | 50.8  | 40               | 178  | 1000          |
| WIT-RT-1050-M | —       | —                             | —        | 4      | 10.500 | 266.7 | 0.210  | 5.3  | 2.500        | 63.5  | 40               | 178  | 1000          |
| WIT-50SR-M    | —       | WIT-50SR-UVB-M                | UL       | 2      | 6.000  | 152.4 | 0.190  | 4.8  | 1.500        | 38.1  | 50               | 222  | 1000          |
| WIT-50RR-M    | —       | WIT-50RR-UVB-M                | UL       | 2      | 8.000  | 203.2 | 0.190  | 4.8  | 2.000        | 50.8  | 50               | 222  | 1000          |
| —             | CTR003A | —                             | UL       | 1      | 8.000  | 200.0 | 0.299  | 7.6  | 2.000        | 50.0  | 50               | 222  | 100           |
| WIT-50LR-M    | —       | WIT-50LR-UVB-M                | —        | 2      | 11.656 | 295.9 | 0.190  | 4.8  | 3.000        | 76.2  | 50               | 222  | 1000          |
| —             | CTR005A | —                             | UL       | 1      | 11.875 | 300.0 | 0.299  | 7.6  | 3.150        | 80.0  | 50               | 222  | 100           |
| CTR011A       | —       | —                             | —        | 2      | 14.562 | 370.0 | 0.189  | 4.8  | 4.020        | 102.0 | 50               | 222  | 100           |
| WIT-RT-1525-Q | —       | —                             | UL       | 4      | 15.250 | 387.4 | 0.520  | 13.2 | 4.000        | 101.6 | 250              | 1113 | 25            |
| WIT-RT-2150-Q | —       | —                             | UL       | 4      | 21.500 | 546.1 | 0.520  | 13.2 | 6.000        | 152.4 | 250              | 1113 | 25            |
| WIT-RT-2775-Q | —       | —                             | UL       | 4      | 27.750 | 704.9 | 0.520  | 13.2 | 8.000        | 203.2 | 250              | 1113 | 25            |



# STAINLESS STEEL CABLE TIES/SPECIALTY CABLE TIES

## MT Series Stainless Steel Cable Tie



### Specifications:

- Material: See Table

### Features:

- Temperature Range: -328°F to 1000°F (-200°C to 538°C)
- Use 316 Stainless Steel for corrosive environments
- Use Type 304 Stainless Steel for general purpose indoor/outdoor applications
- Radiation, vibration and flame resistant

Use with Installation Tools CTG010A or MTG-1 on page 217.



See page 232 for Stainless Steel Cable Tie Holders.



| Item No.            |                     |          | Length |        | Width |     | Ø Max Bundle |       | Tensile Strength |      | Bulk Pack Qty |
|---------------------|---------------------|----------|--------|--------|-------|-----|--------------|-------|------------------|------|---------------|
| 304 Stainless Steel | 316 Stainless Steel | Approval | in     | mm     | in    | mm  | in           | mm    | lbs              | N    |               |
| MT-1                | MT-16               | FA       | 5.00   | 127.0  | 0.18  | 4.6 | 1.00         | 25.4  | 100              | 445  | 100           |
| MT-2                | MT-17               | FA       | 7.91   | 201.0  | 0.18  | 4.6 | 2.00         | 51.0  | 100              | 445  | 100           |
| MT-3                | MT-18               | FA       | 10.20  | 259.0  | 0.18  | 4.6 | 2.75         | 70.0  | 100              | 445  | 100           |
| MT-4                | MT-19               | FA       | 14.25  | 362.0  | 0.18  | 4.6 | 4.00         | 102.0 | 100              | 445  | 100           |
| MT-5                | MT-20               | FA       | 20.51  | 521.0  | 0.18  | 4.6 | 6.00         | 152.0 | 100              | 445  | 100           |
| MT-6                | MT-21               | FA       | 26.73  | 679.0  | 0.18  | 4.6 | 8.00         | 203.0 | 100              | 445  | 100           |
| MT-7                | MT-22               | FA       | 32.99  | 838.0  | 0.18  | 4.6 | 10.00        | 254.0 | 100              | 445  | 100           |
| MT-8                | MT-23               | FA       | 39.29  | 998.0  | 0.18  | 4.6 | 12.00        | 304.0 | 100              | 445  | 50            |
| MT-9                | MT-24               | FA       | 49.21  | 1250.0 | 0.18  | 4.6 | 15.00        | 380.0 | 100              | 445  | 50            |
| MT-10               | MT-25               | FA       | 7.91   | 201.0  | 0.31  | 7.9 | 2.00         | 51.0  | 250              | 1113 | 100           |
| MT-11               | MT-26               | FA       | 14.25  | 362.0  | 0.31  | 7.9 | 4.00         | 102.0 | 250              | 1113 | 100           |
| MT-12               | MT-27               | FA       | 20.51  | 521.0  | 0.31  | 7.9 | 6.00         | 152.0 | 250              | 1113 | 100           |
| MT-13               | MT-28               | FA       | 26.73  | 679.0  | 0.31  | 7.9 | 8.00         | 203.0 | 250              | 1113 | 100           |
| MT-14               | MT-29               | FA       | 32.99  | 838.0  | 0.31  | 7.9 | 10.00        | 254.0 | 250              | 1113 | 50            |
| MT-15               | MT-30               | FA       | 39.29  | 998.0  | 0.31  | 7.9 | 12.00        | 304.0 | 250              | 1113 | 50            |

## HDSB Series Heavy Duty Strap and Buckle

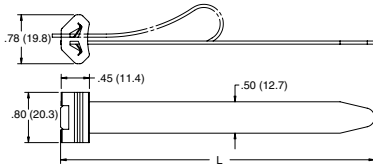


### Specifications:

- Head Material: High Impact UV Stabilized Acetal
- Strap Material: See Table
- Color: Black

### Features:

- For heavy duty applications; max tensile strength of 350 lbs.
- Steel teeth on buckle grip the strap permanently
- Buckle is preassembled on one end of the strap
- Nylon strap material is high strength, lightweight, and relatively inexpensive
- Acetal strap material has excellent weatherability, superior dimension stability, and low-temperature toughness
- Installation tool available, use Item No. WIT-HD-6



| Item No.                  |                                         | Min Loop Tensile Strength lbs | L     |        | Ø Max Bundle |       | Bulk Pack Qty |
|---------------------------|-----------------------------------------|-------------------------------|-------|--------|--------------|-------|---------------|
| Strap: UL94 V-2 Nylon 6/6 | Strap: High Impact UV Stabilized Acetal |                               | in    | mm     | in           | mm    |               |
| HDSB1-350-R               | HDSB2-350-R                             | 350                           | 15.00 | 381.0  | 4.00         | 101.6 | 50            |
| HDSB1-350-L               | HDSB2-350-L                             | 350                           | 33.00 | 838.2  | 9.70         | 246.4 | 25            |
| HDSB1-350-XL              | HDSB2-350-XL                            | 350                           | 50.00 | 1270.0 | 15.10        | 383.5 | 25            |

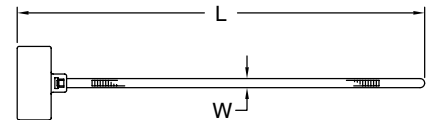
## WITA-F Series Identification Marker Tie

### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

### Features:

- Identification label on tie that can be imprinted or written on with markers



| Item No.      | L Ref. |       | W Ref. |     | Ø Max Bundle |      | Tensile Strength |    | Marker Pad  |            | Bulk Pack Qty |
|---------------|--------|-------|--------|-----|--------------|------|------------------|----|-------------|------------|---------------|
|               | in     | mm    | in     | mm  | in           | mm   | lbs              | N  | in          | mm         |               |
| WITA-F2-18R-M | 4.330  | 110.0 | 0.100  | 2.5 | 0.980        | 25.0 | 18               | 80 | 1.00 x 0.31 | 25.0 x 7.9 | 1000          |

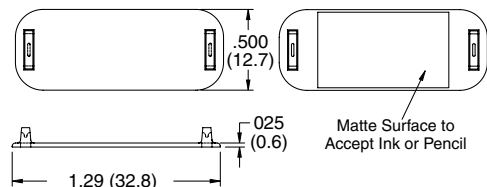
## WIT-MK-1 Marker Tag for Cable Ties

### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

### Features:

- Slide any standard cable tie up to 50 lbs. through mounting slots (ties sold separately)
- Matte surface to accept ink, pencil or marker



| Item No. | Cable Ties Accepted | Bulk Pack Qty |
|----------|---------------------|---------------|
| WIT-MK-1 | 18 lbs. - 50 lbs.   | 1000          |

## DOUBLE HEADED &amp; BEADED CABLE TIES

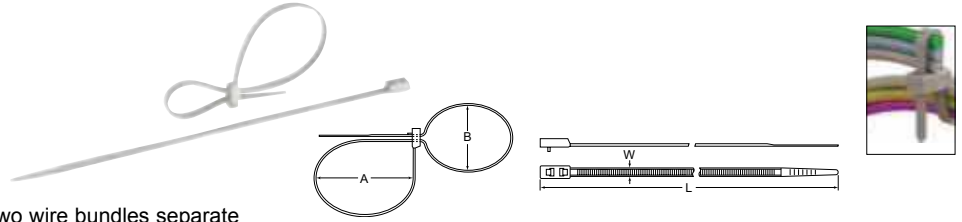

**CTDH/WITA-DH Series**  
**Double Headed Cable Tie**

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Double head design keeps two wire bundles separate



| Item No.      |                     | L      |       | W     |     | A Max |       | A Min |     | B Max |      | B Min |     | Tensile Strength |     | Bulk Pack Qty |
|---------------|---------------------|--------|-------|-------|-----|-------|-------|-------|-----|-------|------|-------|-----|------------------|-----|---------------|
| Natural       | Black UV Stabilized | In     | mm    | In    | mm  | In    | mm    | In    | mm  | In    | mm   | In    | mm  | Lbs              | N   |               |
| WITA-50RLDH-M | WITA50RLDH-UV-M     | 8.875  | 225.0 | 0.189 | 4.8 | 2.300 | 59.0  | 0.098 | 2.5 | 2.000 | 52.0 | 0.079 | 2.0 | 50               | 222 | 1000          |
| CTDH002A      | —                   | 11.875 | 300.0 | 0.189 | 4.8 | 3.300 | 83.0  | 0.098 | 2.5 | 3.000 | 76.0 | 0.079 | 2.0 | 50               | 222 | 1000          |
| WITA-50LDH-M  | WITA-50LDH-UV-M     | 14.560 | 370.0 | 0.189 | 4.8 | 4.100 | 105.0 | 0.098 | 2.5 | 3.900 | 98.0 | 0.079 | 2.0 | 50               | 222 | 1000          |

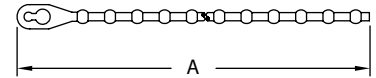
**BT Series**  
**Beaded Cable Tie**

Specifications:

- Material: See Table
- Color: See Table

Features:

- Easy to install and release
- Beaded design keeps wires from shifting or slipping
- Polypropylene material is very flexible



| Item No.                  |                              |                            |                             |                            | A Ref. Length |       | Ø Max Bundle Requires 3 Bead Engagement |      | Bulk Pack Qty |
|---------------------------|------------------------------|----------------------------|-----------------------------|----------------------------|---------------|-------|-----------------------------------------|------|---------------|
| Red UL94 HB Polypropylene | Yellow UL94 HB Polypropylene | Blue UL94 HB Polypropylene | Black UL94 HB Polypropylene | Natural UL94 V-2 Nylon 6/6 | in            | mm    | in                                      | mm   |               |
| BT-2-10-RD                | BT-2-10-YL                   | BT-2-10-BL                 | BT-2-10-BK                  | BT-2-01-NT                 | 2.50          | 63.5  | 0.563                                   | 14.3 | 1000          |
| BT-4-10-RD                | BT-4-10-YL                   | BT-4-10-BL                 | BT-4-10-BK                  | BT-4-01-NT                 | 4.00          | 101.6 | 1.000                                   | 25.4 | 1000          |
| BT-5-10-RD                | BT-5-10-YL                   | BT-5-10-BL                 | BT-5-10-BK                  | BT-5-01-NT                 | 5.00          | 127.0 | 1.250                                   | 31.8 | 1000          |
| BT-6-10-RD                | BT-6-10-YL                   | BT-6-10-BL                 | BT-6-10-BK                  | BT-6-01-NT                 | 6.00          | 152.4 | 1.750                                   | 44.5 | 1000          |
| BT-8-10-RD                | BT-8-10-YL                   | BT-8-10-BL                 | BT-8-10-BK                  | BT-8-01-NT                 | 8.75          | 222.3 | 2.375                                   | 60.3 | 1000          |
| BT-10-10-RD               | BT-10-10-YL                  | BT-10-10-BL                | BT-10-10-BK                 | BT-10-01-NT                | 10.75         | 273.1 | 3.125                                   | 85.7 | 1000          |
| BT-12-10-RD               | BT-12-10-YL                  | BT-12-10-BL                | BT-12-10-BK                 | BT-12-01-NT                | 12.75         | 323.9 | 3.625                                   | 92.1 | 1000          |

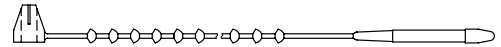
**LBT Series**  
**Locking Beaded Cable Tie**

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Has a permanent locking feature



| Item No.  | Approval | Length |       | Width Max |     | Ø Max Bundle |      | Tensile Strength |    | Bulk Pack Qty |
|-----------|----------|--------|-------|-----------|-----|--------------|------|------------------|----|---------------|
|           |          | in     | mm    | in        | mm  | in           | mm   | lbs              | N  |               |
| LBT-18-01 | PA       | 5.90   | 150.0 | 0.080     | 2.0 | 1.4          | 35.6 | 18               | 80 | 1000          |

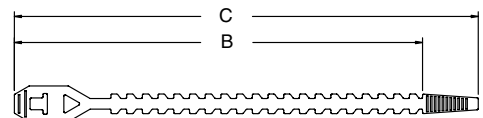
**HT Series**  
**Hanking Cable Tie**

Specifications:

- Material: Polyethylene
- Color: Natural

Features:

- Good for wrapping electrical cords for shipping and packaging
- Extremely flexible



| Item No. | B Ref. |       | C Ref. |       | Ø Max Bundle |      | Width of Strap |     | Bulk Pack Qty |
|----------|--------|-------|--------|-------|--------------|------|----------------|-----|---------------|
|          | in     | mm    | in     | mm    | in           | mm   | in             | mm  |               |
| HT-3.9   | 3.19   | 81.0  | 3.90   | 99.0  | 0.91         | 23.0 | 0.250          | 6.4 | 1000          |
| HT-4.9   | 4.21   | 107.0 | 4.92   | 125.0 | 1.10         | 28.0 | 0.250          | 6.4 | 1000          |
| HT-5.9   | 5.20   | 132.0 | 5.91   | 150.0 | 1.42         | 36.0 | 0.250          | 6.4 | 1000          |



## SCREW MOUNT &amp; SPECIALTY CABLE TIES

SR 1787 Series  
Adhesive Based Ladder Ties

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Strap is inserted through the buckle at the adhesive base
- Ladder style allows it to be adjustable
- Strong adhesion for quick and easy assembly



| Item No. | Max Cable Diameter |      | L     |      | W     |      | Bulk Pack Qty |
|----------|--------------------|------|-------|------|-------|------|---------------|
|          | in                 | mm   | in    | mm   | in    | mm   |               |
| 460297   | 0.669              | 17.0 | 0.984 | 25.0 | 0.709 | 18.0 | 100           |
| 460298   | 0.866              | 22.0 | 1.201 | 30.5 | 0.827 | 21.0 | 100           |
| 460299   | 1.024              | 26.0 | 1.201 | 30.5 | 0.827 | 21.0 | 100           |

CTMT Series  
Screw Mount Cable Tie

Figure 1

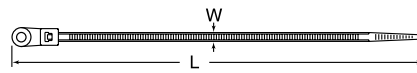
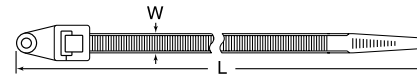


Figure 2



## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Mountable with single screw or bolt

| Item No. | Figure | L     |       | W     |     | Ø Max Bundle |     | Tensile Strength |     | Screw Size | Bulk Pack Qty |
|----------|--------|-------|-------|-------|-----|--------------|-----|------------------|-----|------------|---------------|
|          |        | in    | mm    | in    | mm  | in           | mm  | lbs.             | N   |            |               |
| CTMT001A | 1      | 4.33  | 110   | 0.098 | 2.5 | 0.984        | 25  | 18               | 80  | #4         | 100           |
| CTMT002A | 1      | 6.75  | 171.5 | 0.146 | 3.7 | 1.575        | 40  | 40               | 178 | #10        | 100           |
| CTMT003A | 1      | 8.62  | 219   | 0.165 | 4.2 | 2.047        | 52  | 50               | 222 | #10        | 100           |
| CTMT006A | 2      | 16.14 | 410   | 0.311 | 7.9 | 4.409        | 112 | 120              | 534 | M6         | 100           |
| CTMT007A | 2      | 11.81 | 300   | 0.307 | 7.8 | 3.150        | 80  | 120              | 534 | M6         | 100           |

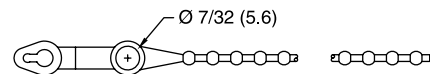
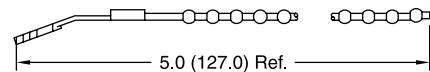
ST Series  
Screw Mount Beaded Cable Tie

## Specifications:

- Material: See table
- Color: Natural

## Features:

- Tie is easily releasable
- Polypropylene material is very flexible
- Easily and securely mounted with a #12 (M5) screw



| Item No. | Material              | Ø Bundle Range |            | Screw Size | Bulk Pack Qty |
|----------|-----------------------|----------------|------------|------------|---------------|
|          |                       | in             | mm         |            |               |
| ST-205   | UL94 HB Polypropylene | 0.250 - 1.250  | 6.4 - 31.8 | #12        | 1000          |
| ST-305   | UL94 V-2 Nylon 6/6    | 0.250 - 1.250  | 6.4 - 31.8 | #12        | 1000          |

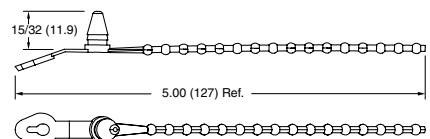
PT Series  
Push In Beaded Cable Tie

## Specifications:

- Material: See table
- Color: See table

## Features:

- Easily snaps into mounting hole
- Tie is easily releasable
- Polypropylene material is very flexible



| Item No. | UL94 Horizontal Burn Polypropylene | UL94 V-2 Nylon 6/6 | Color   | Ø Bundle Range |            | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|----------|------------------------------------|--------------------|---------|----------------|------------|-----------------|-----|-----------------|-----------|---------------|
|          |                                    |                    |         | in             | mm         | in              | mm  | in              | mm        |               |
| PT-203   | PT-303                             |                    | Black   | 1/4 - 1-1/4    | 6.4 - 31.8 | 0.250           | 6.4 | 1/32 - 1/8      | 0.8 - 3.2 | 1000          |
| PT-205   | PT-305                             |                    | Natural | 1/4 - 1-1/4    | 6.4 - 31.8 | 0.250           | 6.4 | 1/32 - 1/8      | 0.8 - 3.2 | 1000          |



WIT-A/WITBH Series  
Push Mount Cable Tie



Figure 1



Figure 3

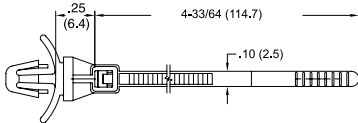


Figure 4

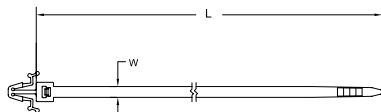


Figure 2

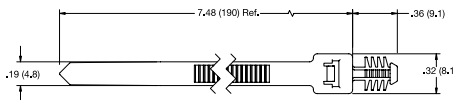


Figure 5

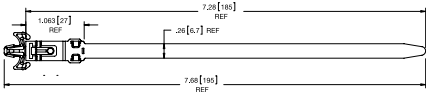


Figure 6

Specifications:

- Material: UL94 V-2 Nylon 6/6
- WITBH-50R-HS Material: UL94 V-2 Heat Stabilized Nylon serviceable to 239°F
- Color: Natural

Features:

- Easily snaps into pre-drilled holes
- Can be mounted to installation before final assembly
- Combines a cable tie, mount and fastener in a single part
- Figures 2 and 6 are removable from the top of the board

| Item No.        | Figure | L Ref.       |       | W Ref. |     | Ø Max Bundle |      | Tensile Strength |     | Ø Mounting Hole |           | Panel Thickness |           | Bulk Pack Qty |
|-----------------|--------|--------------|-------|--------|-----|--------------|------|------------------|-----|-----------------|-----------|-----------------|-----------|---------------|
|                 |        | in           | mm    | in     | mm  | in           | mm   | lbs.             | N   | in              | mm        | in              | mm        |               |
| WIT-50RLA-1     | 1      | 5.320        | 135.0 | 0.190  | 4.8 | 1.000        | 25.4 | 50               | 222 | 0.250           | 6.4       | 0.125           | 3.18      | 1000          |
| WIT-50RLA-2     | 1      | 6.690        | 170.0 | 0.190  | 4.8 | 1.500        | 38.1 | 50               | 222 | 0.250           | 6.4       | 0.125           | 3.18      | 1000          |
| WIT-50RLA-3     | 1      | 7.870        | 200.0 | 0.190  | 4.8 | 1.750        | 44.5 | 50               | 222 | 0.250           | 6.4       | 0.125           | 3.18      | 1000          |
| WIT-50RLA-M     | 1      | 8.870        | 225.4 | 0.190  | 4.8 | 2.000        | 50.8 | 50               | 222 | 0.187           | 4.7       | 0.093           | 2.36      | 1000          |
| WIT-30RAR1-2    | 2      | 5.125        | 130.0 | 0.14   | 3.6 | 1.000        | 25.4 | 30               | 135 | 0.189           | 4.8       | 0.079 - 0.094   | 2.0 - 2.4 | 100           |
| WIT-30LAR1-2    | 2      | 6.125        | 155.5 | 0.14   | 3.6 | 1.25         | 31.8 | 30               | 135 | 0.189           | 4.8       | 0.079 - 0.094   | 2.0 - 2.4 | 100           |
| WIT-18RA-01     | 3      | 4.290        | 109.0 | 0.100  | 2.5 | 0.830        | 21.0 | 18               | 80  | 0.190           | 4.8       | 0.060           | 1.6       | 1000          |
| WIT-50SA-01     | 3      | 5.240        | 133.0 | 0.190  | 4.8 | 0.910        | 23.0 | 50               | 222 | 0.250           | 6.4       | 0.060           | 1.6       | 1000          |
| WIT-50SA-1-01   | 3      | 5.240        | 133.0 | 0.190  | 4.8 | 0.910        | 23.0 | 50               | 222 | 0.250 - 0.270   | 6.4 - 6.8 | 0.030 - 0.080   | 0.8 - 2.0 | 1000          |
| WIT-50SRA-01    | 3      | 6.810        | 173.0 | 0.190  | 4.8 | 1.420        | 36.0 | 50               | 222 | 0.250           | 6.4       | 0.060           | 1.6       | 1000          |
| WIT-50SRA-1-01  | 3      | 6.810        | 173.0 | 0.190  | 4.8 | 1.420        | 36.0 | 50               | 222 | 0.250 - 0.270   | 6.4 - 6.8 | 0.030 - 0.080   | 0.8 - 2.0 | 1000          |
| WIT-50RA-01     | 3      | 7.800        | 198.0 | 0.190  | 4.8 | 1.690        | 43.0 | 50               | 222 | 0.250           | 6.4       | 0.060           | 1.6       | 500           |
| WIT-50RA-1-01   | 3      | 7.800        | 198.0 | 0.190  | 4.8 | 1.690        | 43.0 | 50               | 222 | 0.250 - 0.270   | 6.4 - 6.8 | 0.030 - 0.080   | 0.8 - 2.0 | 500           |
| WIT-18R1A-4-01  | 4      | 4.760        | 121.1 | 0.100  | 2.5 | 0.750        | 19.1 | 18               | 80  | 0.156           | 4.0       | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |
| WIT-18RA-4-01-M | 4      | 4.760        | 121.1 | 0.100  | 2.5 | 0.750        | 19.1 | 18               | 80  | 0.187           | 4.8       | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |
| WIT-18R2A-4-01  | 4      | 4.760        | 121.1 | 0.100  | 2.5 | 0.750        | 19.1 | 18               | 80  | 0.187           | 4.8       | 0.062 - 0.140   | 1.6 - 3.6 | 1000          |
| WITBH-50R       | 5      | See Figure 5 |       |        |     | 1.750        | 44.5 | 50               | 228 | 0.25            | 6.4       | 0.250           | 6.4       | 100           |
| WITBH-50R-HS    | 5      | See Figure 5 |       |        |     | 1.750        | 44.5 | 50               | 228 | 0.25            | 6.4       | 0.250           | 6.4       | 100           |
| WIT-40LAR       | 6      | See Figure 6 |       |        |     | 1.970        | 50   | 40               | 178 | 0.187           | 4.8       | 0.020 - 0.091   | 0.5 - 2.3 | 100           |

WIT-30RRA/TOAH Series  
Releasable Arrowhead Cable Tie

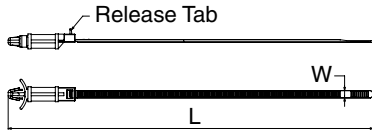


Figure 1

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Combines cable tie, mount and fastener in a single part
- Used to attach wire or cable bundles to a surface
- Easily snaps into pre-drilled holes
- WIT-30RRA part has a spacer after the arrowhead

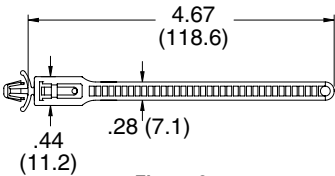


Figure 2

| Item No.        | Figure | L Ref. |       | W Ref. |     | Ø Max Bundle |      | Tensile Strength |     | Ø Mounting Hole |     | Panel Thickness |           | Spacer Length |      | Bulk Pack Qty |
|-----------------|--------|--------|-------|--------|-----|--------------|------|------------------|-----|-----------------|-----|-----------------|-----------|---------------|------|---------------|
|                 |        | in     | mm    | in     | mm  | in           | mm   | lbs.             | N   | in              | mm  | in              | mm        | in            | mm   |               |
| WIT-30RRA-4-M   | 1      | 6.312  | 160.3 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.187           | 4.8 | 0.030 - 0.078   | 0.8 - 2.0 | 0.280         | 7.1  | 1000          |
| WIT-30RRA-8-M   | 1      | 6.562  | 166.7 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.187           | 4.8 | 0.030 - 0.078   | 0.8 - 2.0 | 0.530         | 13.5 | 1000          |
| WIT-30RRA-12-M  | 1      | 6.812  | 173.0 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.187           | 4.8 | 0.030 - 0.078   | 0.8 - 2.0 | 0.780         | 19.8 | 1000          |
| WIT-30RRA-16-M  | 1      | 7.062  | 179.4 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.187           | 4.8 | 0.030 - 0.078   | 0.8 - 2.0 | 1.000         | 25.4 | 1000          |
| WIT-30RRAA-4-M  | 1      | 6.362  | 161.6 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.250           | 6.4 | 0.030 - 0.078   | 0.8 - 2.0 | 0.280         | 7.1  | 1000          |
| WIT-30RRAA-8-M  | 1      | 6.614  | 168.0 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.250           | 6.4 | 0.030 - 0.078   | 0.8 - 2.0 | 0.530         | 13.5 | 1000          |
| WIT-30RRAA-12-M | 1      | 6.862  | 174.3 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.250           | 6.4 | 0.030 - 0.078   | 0.8 - 2.0 | 0.780         | 19.8 | 1000          |
| WIT-30RRAA-16-M | 1      | 7.114  | 180.7 | 0.141  | 3.6 | 1.250        | 31.8 | 30               | 135 | 0.250           | 6.4 | 0.030 - 0.078   | 0.8 - 2.0 | 1.000         | 25.4 | 1000          |
| TOAH-18-01      | 2      | 4.670  | 118.6 | 0.280  | 7.1 | 1.125        | 28.5 | 40               | 178 | 0.250           | 6.4 | 0.062           | 1.6       | —             | —    | 1000          |



CABLE TIES & STRAPS

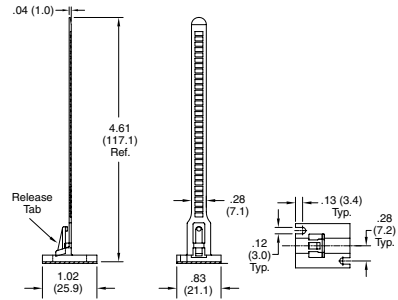
TOBS Series  
Adhesive/Screw Mount Tie

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Mounts with two #4 (M3) screws or adhesive
- Cable tie is releasable



| Item No.       | Slots for Screw Size |    | Ø Max Bundle |      | Bulk Pack Qty |
|----------------|----------------------|----|--------------|------|---------------|
|                | in                   | mm | in           | mm   |               |
| TOBS-18-01A-RT | #4                   | M3 | 1.125        | 28.5 | 1000          |

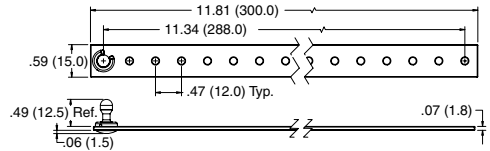
ES Series  
Rubber Strap with Locking Button

Specifications:

- Material: Strap; Silicone Rubber, 50 Shore A
- Latch Pin: UL94 HB Nylon 6/6
- Color: Black

Features:

- Rubber strap can be stretched and wrapped around bundles up to three times
- Grips the cables preventing movement
- For additional latch pins, order part number CS-113-6



| Item No. | Ø Max Bundle |       | Max Perimeter |       | Bulk Pack Qty |
|----------|--------------|-------|---------------|-------|---------------|
|          | in           | mm    | in            | mm    |               |
| ES-1     | 4.33         | 110.0 | 13.6          | 345.0 | 100           |

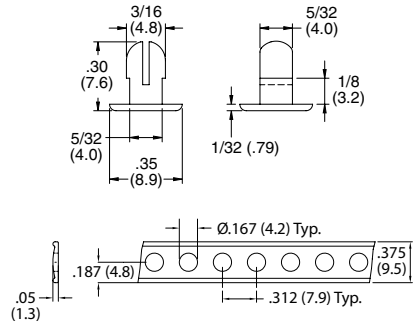
RNS/LB Series  
Nylon Strap with Locking Button

Specifications:

- Material: Nylon 6/6
- Color: Black

Features:

- 100 foot long strap can be cut to desired length
- Once bundle is wrapped, the strap is secured with mounting button, LB-5



| Item No. | Description    | Material UL Rating | Bulk Pack Qty | Pack Qty |
|----------|----------------|--------------------|---------------|----------|
| RNS-167  | Strap          | UL94 HB            | 100 ft.       | 1        |
| LB-5     | Locking Button | UL94 V-2           | 100           | 100      |

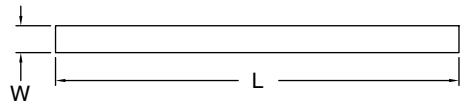
RKS Series  
Hook and Loop Strap

Specifications:

- Material: Hook: Low Density Polyethylene
- Loop: Nylon Knit
- Color: Black

Features:

- Heavy duty hook and loop
- Features VELCRO® brand hook and loop material
- User can cut to desired length
- Excellent in reusable applications



| Item No.     | L Length |       | W Width |      | Bulk Pack Qty |
|--------------|----------|-------|---------|------|---------------|
|              | in       | mm    | in      | mm   |               |
| RKS-8-6-BK   | 6.0      | 152.4 | .50     | 12.7 | 10            |
| RKS-8-8-BK   | 8.0      | 203.2 | .50     | 12.7 | 10            |
| RKS-8-12BK   | 12.0     | 304.8 | .50     | 12.7 | 10            |
| RKS-16-8-BK  | 8.0      | 203.2 | 1.00    | 25.4 | 10            |
| RKS-16-12-BK | 12.0     | 304.8 | 1.00    | 25.4 | 10            |



RKWB/RKWFA Series  
Hook and Loop Clamp



- Specifications:
- Material: Hook and Loop
  - Color: Black

- Features:
- Hook and loop design
  - RKWB accommodates multiple bundle diameters; up to 1-1/2"
  - RKWFA accommodates multiple bundle diameters; up to 0.75"

Figure 1

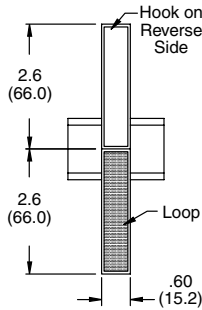
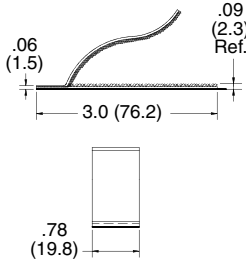


Figure 2

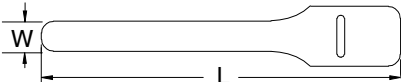


| Item No. | Figure | Ø Max Bundle |      | Base        |             | Bulk Pack Qty |
|----------|--------|--------------|------|-------------|-------------|---------------|
|          |        | in           | mm   | in          | mm          |               |
| RKWB-1   | 1      | 1.5          | 38.1 | 2.0 x 1.0   | 50.8 x 25.4 | 100           |
| RKWFA-1  | 2      | 0.75         | 19.1 | 3.00 x 0.78 | 52.3 x 19.8 | 100           |

RKW Series  
Hook and Loop Cable Tie

- Specifications:
- Material: Loop - Nylon Knit
  - Hook - Low-Density Polyethylene
  - Color: See Table

- Features:
- Easy assembly and removal
  - Can be fastened and released several times
  - Features: VELCRO® brand hook and loop material



See page 233 for Hook and Loop Cable Tie Holders.

| Item No.     |              |              | Screw Mount | L    |       | W    |      | Ø Max Bundle |       | Bulk Pack Qty |
|--------------|--------------|--------------|-------------|------|-------|------|------|--------------|-------|---------------|
| Black        | Blue         | Green        |             | in   | mm    | in   | mm   | in           | mm    |               |
| RKW-6-6-BK   | RKW-6-6-BL   | RKW-6-6-GN   | No          | 6.0  | 152.4 | 0.38 | 9.5  | 1.400        | 35.6  | 10            |
| RKW-8-6-BK   | RKW-8-6-BL   | RKW-8-6-GN   | No          | 6.0  | 152.4 | 0.50 | 12.7 | 1.400        | 35.6  | 10            |
| RKW-8-8-BK   | RKW-8-8-BL   | RKW-8-8-GN   | Yes         | 8.0  | 203.2 | 0.50 | 12.7 | 1.920        | 48.7  | 10            |
| RKW-8-9-BK   | RKW-8-9-BL   | RKW-8-9-GN   | Yes         | 9.0  | 228.6 | 0.50 | 12.7 | 2.140        | 54.4  | 10            |
| RKW-8-11-BK  | RKW-8-11-BL  | RKW-8-11-GN  | No          | 11.0 | 279.4 | 0.50 | 12.7 | 2.618        | 66.5  | 10            |
| RKW-8-12-BK  | RKW-8-12-BL  | RKW-8-12-GN  | Yes         | 12.0 | 304.8 | 0.50 | 12.7 | 2.856        | 72.5  | 10            |
| RKW-8-13-BK  | RKW-8-13-BL  | RKW-8-13-GN  | Yes         | 13.0 | 330.2 | 0.50 | 12.7 | 3.396        | 86.3  | 10            |
| RKW-12-9-BK  | RKW-12-9-BL  | RKW-12-9-GN  | Yes         | 9.0  | 228.6 | 0.75 | 19.1 | 2.140        | 54.4  | 10            |
| RKW-12-15-BK | RKW-12-15-BL | RKW-12-15-GN | No          | 15.0 | 381.0 | 0.75 | 19.1 | 3.918        | 99.5  | 10            |
| RKW-12-18-BK | RKW-12-18-BL | RKW-12-18-GN | No          | 18.0 | 457.2 | 0.75 | 19.1 | 4.716        | 119.8 | 10            |
| RKW-12-24-BK | RKW-12-24-BL | RKW-12-24-GN | No          | 24.0 | 609.6 | 0.75 | 19.1 | 6.288        | 159.7 | 10            |

| Item No.     |              |             |              | Screw Mount | L    |       | W    |      | Ø Max Bundle |       | Bulk Pack Qty |
|--------------|--------------|-------------|--------------|-------------|------|-------|------|------|--------------|-------|---------------|
| Orange       | Red          | White       | Yellow       |             | in   | mm    | in   | mm   | in           | mm    |               |
| RKW-6-6-OR   | RKW-6-6-RD   | RKW-6-6-W   | RKW-6-6-YL   | No          | 6.0  | 152.4 | 0.38 | 9.5  | 1.400        | 35.6  | 10            |
| RKW-8-6-OR   | RKW-8-6-RD   | RKW-8-6-W   | RKW-8-6-YL   | No          | 6.0  | 152.4 | 0.50 | 12.7 | 1.400        | 35.6  | 10            |
| RKW-8-8-OR   | RKW-8-8-RD   | RKW-8-8-W   | RKW-8-8-YL   | Yes         | 8.0  | 203.2 | 0.50 | 12.7 | 1.920        | 48.7  | 10            |
| RKW-8-9-OR   | RKW-8-9-RD   | RKW-8-9-W   | RKW-8-9-YL   | Yes         | 9.0  | 228.6 | 0.50 | 12.7 | 2.140        | 54.4  | 10            |
| RKW-8-11-OR  | RKW-8-11-RD  | RKW-8-11-W  | RKW-8-11-YL  | No          | 11.0 | 279.4 | 0.50 | 12.7 | 2.618        | 66.5  | 10            |
| RKW-8-12-OR  | RKW-8-12-RD  | RKW-8-12-W  | RKW-8-12-YL  | Yes         | 12.0 | 304.8 | 0.50 | 12.7 | 2.856        | 72.5  | 10            |
| RKW-8-13-OR  | RKW-8-13-RD  | RKW-8-13-W  | RKW-8-13-YL  | Yes         | 13.0 | 330.2 | 0.50 | 12.7 | 3.396        | 86.3  | 10            |
| RKW-12-9-OR  | RKW-12-9-RD  | RKW-12-9-W  | RKW-12-9-YL  | Yes         | 9.0  | 228.6 | 0.75 | 19.1 | 2.140        | 54.4  | 10            |
| RKW-12-15-OR | RKW-12-15-RD | RKW-12-15-W | RKW-12-15-YL | No          | 15.0 | 381.0 | 0.75 | 19.1 | 3.918        | 99.5  | 10            |
| RKW-12-18-OR | RKW-12-18-RD | RKW-12-18-W | RKW-12-18-YL | No          | 18.0 | 457.2 | 0.75 | 19.1 | 4.716        | 119.8 | 10            |
| RKW-12-24-OR | RKW-12-24-RD | RKW-12-24-W | RKW-12-24-YL | No          | 24.0 | 609.6 | 0.75 | 19.1 | 6.288        | 159.7 | 10            |

| Item No.       | Screw Mount | L    |       | W    |      | Ø Max Bundle |        | Bulk Pack Qty |
|----------------|-------------|------|-------|------|------|--------------|--------|---------------|
| Black          |             | in   | mm    | in   | mm   | in           | mm     |               |
| RKW-6-6-BK-C   | No          | 6.0  | 152.4 | 0.38 | 9.5  | 1.400        | 35.56  | 100           |
| RKW-8-6-BK-C   | No          | 6.0  | 152.4 | 0.50 | 12.7 | 1.400        | 35.56  | 100           |
| RKW-8-8-BK-C   | Yes         | 8.0  | 203.2 | 0.50 | 12.7 | 1.920        | 48.70  | 100           |
| RKW-8-9-BK-C   | Yes         | 9.0  | 228.6 | 0.50 | 12.7 | 2.140        | 54.40  | 100           |
| RKW-8-11-BK-C  | No          | 11.0 | 279.4 | 0.50 | 12.7 | 2.618        | 66.50  | 100           |
| RKW-8-12-BK-C  | Yes         | 12.0 | 304.8 | 0.50 | 12.7 | 2.856        | 72.54  | 100           |
| RKW-8-13-BK-C  | Yes         | 13.0 | 330.2 | 0.50 | 12.7 | 3.396        | 86.25  | 100           |
| RKW-12-9-BK-C  | Yes         | 9.0  | 228.6 | 0.75 | 19.1 | 2.140        | 54.40  | 100           |
| RKW-12-15-BK-C | No          | 15.0 | 381.0 | 0.75 | 19.1 | 3.918        | 99.52  | 100           |
| RKW-12-18-BK-C | No          | 18.0 | 457.2 | 0.75 | 19.1 | 4.716        | 119.78 | 100           |
| RKW-12-24-BK-C | No          | 24.0 | 609.6 | 0.75 | 19.1 | 6.288        | 159.71 | 100           |



## HOOK AND LOOP CABLE TIES & CINCH STRAPS

### RKWPR Series

#### Plenum Rated Hook and Loop Cable Tie

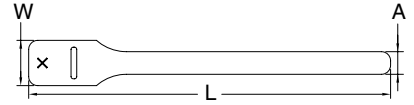


##### Specifications:

- Material/Color  
Hook: Black UL94 V-2 Polypropylene  
Loop: Maroon UL94 V-2 Nylon

##### Features:

- Meets UL94 V-2 requirements, UL #E143339
- Accepted as wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- VELCRO® brand hook and loop material



| Item No.    | Screw Mount | L    |       | W    |      | A    |      | Bulk Pack Qty |
|-------------|-------------|------|-------|------|------|------|------|---------------|
|             |             | in   | mm    | in   | mm   | in   | mm   |               |
| RKWPR-6-6   | No          | 6.0  | 152.4 | 1.00 | 25.4 | 0.50 | 12.7 | 10            |
| RKWPR-8-8   | Yes         | 8.0  | 203.2 | 1.00 | 25.4 | 0.50 | 12.7 | 10            |
| RKWPR-8-12  | Yes         | 12.0 | 304.8 | 1.00 | 25.4 | 0.50 | 12.7 | 10            |
| RKWPR-12-13 | Yes         | 13.0 | 330.2 | 1.50 | 38.1 | 0.75 | 19.1 | 10            |

### RKWE Series

#### Economy Hook and Loop Cable Tie

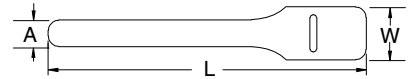


##### Specifications:

- Material: Hook: Low-Density Polyethylene  
Loop: Nylon Knit
- Color: Black

##### Features:

- VELCRO® brand hook and loop material
- Similar in function and purpose to the RKW Series, these economy ties are made from a lower-profile, economical material



| Item No.      | L    |       | W    |      | A    |      | Bulk Pack Qty |
|---------------|------|-------|------|------|------|------|---------------|
|               | in   | mm    | in   | mm   | in   | mm   |               |
| RKWE-6-6-BK   | 6.0  | 152.4 | 0.75 | 19.1 | 0.38 | 9.5  | 10            |
| RKWE-8-6-BK   | 6.0  | 152.4 | 1.00 | 25.4 | 0.50 | 12.7 | 10            |
| RKWE-8-8-BK   | 8.0  | 203.2 | 1.00 | 25.4 | 0.50 | 12.7 | 10            |
| RKWE-8-11-BK  | 11.0 | 279.4 | 1.00 | 25.4 | 0.50 | 12.7 | 10            |
| RKWE-12-15-BK | 12.0 | 304.8 | 1.50 | 38.1 | 0.75 | 19.1 | 10            |

### RKWDM Series

#### Hook and Loop Cinch Strap with Metal Buckle

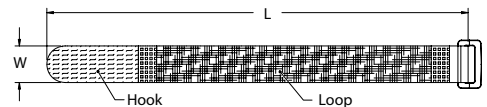


##### Specifications:

- Material: Nylon Woven Hook and Loop  
Buckle: Metal
- Color: Black

##### Features:

- Metal buckle for heavy duty industrial applications



| Item No.       | L Length |       | W    |      | Ø Approximate Bundle w/ Hook Fully Engaged |       | Bulk Pack Qty |
|----------------|----------|-------|------|------|--------------------------------------------|-------|---------------|
|                | in       | mm    | in   | mm   | in                                         | mm    |               |
| RKWDM-16-15-BK | 15.0     | 381.0 | 1.00 | 25.4 | 3.750                                      | 95.0  | 10            |
| RKWDM-16-20-BK | 20.0     | 508.0 | 1.00 | 25.4 | 5.500                                      | 140.0 | 10            |
| RKWDM-16-22-BK | 22.0     | 559.0 | 1.00 | 25.4 | 5.938                                      | 151.0 | 10            |
| RKWDM-16-24-BK | 24.0     | 610.0 | 1.00 | 25.4 | 6.625                                      | 168.0 | 10            |
| RKWDM-32-15-BK | 15.0     | 381.0 | 2.00 | 51.0 | 3.750                                      | 95.0  | 10            |
| RKWDM-32-20-BK | 20.0     | 508.0 | 2.00 | 51.0 | 5.500                                      | 140.0 | 10            |
| RKWDM-32-22-BK | 22.0     | 559.0 | 2.00 | 51.0 | 6.000                                      | 152.0 | 10            |
| RKWDM-32-24-BK | 24.0     | 610.0 | 2.00 | 51.0 | 6.625                                      | 168.0 | 10            |

HOOK AND LOOP CINCH STRAPS



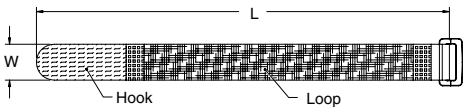
RKWD Series  
Hook and Loop Cinch Strap

Specifications:

- Material: Nylon Woven Hook and Loop
- Buckle: Nylon
- Color: See Table

Features:

- Heavy duty hook and loop
- Buckle on the tie acts as a pulley providing leverage to pull the strap as tightly as needed
- The strap section goes through the buckle, the remainder of the material gets pulled around the buckle and can then be attached to the same side of the material
- The non-metallic buckle is safe to use around electrical and magnetic applications



| Item No.      |               | L Length |     | W    |      | Ø Approximate Bundle w/ Hook Fully Engaged |     | Bulk Pack Qty |
|---------------|---------------|----------|-----|------|------|--------------------------------------------|-----|---------------|
| Black         | Orange        | in       | mm  | in   | mm   | in                                         | mm  |               |
| RKWD-12-12-BK | —             | 12.0     | 305 | 0.75 | 19.1 | 2.875                                      | 73  | 10            |
| RKWD-12-18-BK | —             | 18.0     | 457 | 0.75 | 19.1 | 4.750                                      | 121 | 10            |
| RKWD-16-9-BK  | RKWD-16-9-OR  | 9.0      | 229 | 1.00 | 25.4 | 1.875                                      | 48  | 10            |
| RKWD-16-12-BK | RKWD-16-12-OR | 12.0     | 305 | 1.00 | 25.4 | 2.875                                      | 73  | 10            |
| RKWD-16-15-BK | RKWD-16-15-OR | 15.0     | 381 | 1.00 | 25.4 | 3.750                                      | 95  | 10            |
| RKWD-16-20-BK | RKWD-16-20-OR | 20.0     | 508 | 1.00 | 25.4 | 5.500                                      | 140 | 10            |
| RKWD-16-24-BK | RKWD-16-24-OR | 24.0     | 609 | 1.00 | 25.4 | 6.625                                      | 168 | 10            |

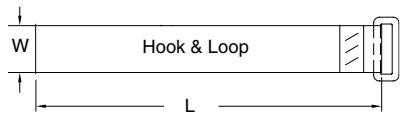
RKWDA Series  
Extra Long/Cut to Length Cinch Strap

Specifications:

- Material: Hook and Loop: Nylon Woven
- Buckle: Nylon
- Color: Black

Features:

- Unique cut-to-length design eliminates the need to predetermine exact strap length
- Adheres to itself along its entire length



| Item No.       | L    |      | W    |      | Ø Bundle w/ Hook Fully Engaged |     | Bulk Pack Qty |
|----------------|------|------|------|------|--------------------------------|-----|---------------|
|                | in   | mm   | in   | mm   | in                             | mm  |               |
| RKWDA-16-20-BK | 20.0 | 508  | 1.00 | 25.4 | 5.500                          | 140 | 10            |
| RKWDA-16-24-BK | 24.0 | 609  | 1.00 | 25.4 | 6.325                          | 168 | 10            |
| RKWDA-16-36-BK | 36.0 | 914  | 1.00 | 25.4 | 10.500                         | 267 | 10            |
| RKWDA-16-48-BK | 48.0 | 1219 | 1.00 | 25.4 | 14.375                         | 365 | 10            |
| RKWDA-32-20-BK | 20.0 | 508  | 2.00 | 50.8 | 5.500                          | 140 | 10            |
| RKWDA-32-24-BK | 24.0 | 610  | 2.00 | 50.8 | 6.628                          | 169 | 10            |
| RKWDA-32-36-BK | 36.0 | 914  | 2.00 | 50.8 | 10.500                         | 267 | 10            |
| RKWDA-32-48-BK | 48.0 | 1219 | 2.00 | 50.8 | 14.375                         | 365 | 10            |

RKWDG/RKWDE Series  
Hook and Loop Cinch Strap with Grommet

Specifications:

- Material: Nylon Woven Hook and Loop
- Buckle: Nylon
- Grommet: Brass
- Color: Black

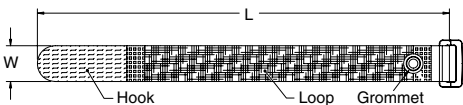


Figure 1

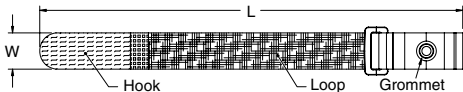


Figure 2

Features:

- Grommet for mounting to walls, racks and mobile carts to organize and neatly route cables
- RKWDG centers bundle over mounting point
- RKWDE offsets bundle from mounting point
- Takes the stress off horizontal cable runs

| Item No.       | Figure | L Length |     | W    |      | Ø Approximate Bundle w/ Hook Fully Engaged |     | Grommet Ø Ref. |     | Bulk Pack Qty |
|----------------|--------|----------|-----|------|------|--------------------------------------------|-----|----------------|-----|---------------|
|                |        | in       | mm  | in   | mm   | in                                         | mm  | in             | mm  |               |
| RKWDG-16-9-BK  | 1      | 9.0      | 229 | 1.00 | 25.4 | 1.875                                      | 48  | 0.250          | 6.4 | 10            |
| RKWDE-16-9-BK  | 2      | 9.0      | 229 | 1.00 | 25.4 | 1.875                                      | 48  | 0.250          | 6.4 | 10            |
| RKWDG-12-12-BK | 1      | 12.0     | 305 | 0.75 | 19.1 | 2.875                                      | 73  | 0.250          | 6.4 | 10            |
| RKWDE-12-12-BK | 2      | 10.5     | 267 | 0.75 | 19.1 | 2.375                                      | 60  | 0.250          | 6.4 | 10            |
| RKWDG-16-12-BK | 1      | 12.0     | 305 | 1.00 | 25.4 | 2.875                                      | 73  | 0.250          | 6.4 | 10            |
| RKWDE-16-12-BK | 2      | 12.0     | 305 | 1.00 | 25.4 | 2.875                                      | 73  | 0.250          | 6.4 | 10            |
| RKWDG-16-15-BK | 1      | 15.0     | 381 | 1.00 | 25.4 | 3.750                                      | 95  | 0.250          | 6.4 | 10            |
| RKWDE-16-15-BK | 2      | 15.0     | 381 | 1.00 | 25.4 | 3.750                                      | 95  | 0.250          | 6.4 | 10            |
| RKWDG-12-18-BK | 1      | 18.0     | 457 | 0.75 | 19.1 | 4.750                                      | 121 | 0.250          | 6.4 | 10            |
| RKWDE-12-18-BK | 2      | 16.5     | 419 | 0.75 | 19.1 | 4.250                                      | 108 | 0.250          | 6.4 | 10            |
| RKWDG-16-20-BK | 1      | 20.0     | 508 | 1.00 | 25.4 | 5.500                                      | 140 | 0.250          | 6.4 | 10            |
| RKWDE-16-20-BK | 2      | 20.0     | 508 | 1.00 | 25.4 | 5.500                                      | 140 | 0.250          | 6.4 | 10            |
| RKWDG-16-24-BK | 1      | 24.0     | 609 | 1.00 | 25.4 | 6.625                                      | 168 | 0.250          | 6.4 | 10            |
| RKWDE-16-24-BK | 2      | 24.0     | 609 | 1.00 | 25.4 | 6.625                                      | 168 | 0.250          | 6.4 | 10            |



# HOOK AND LOOP ROLLS

## RKWR Series Hook and Loop Roll

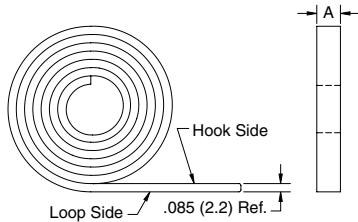


Specifications:

- Material: Hook: Low-Density Polyethylene  
Loop: Nylon Knit
- Color: See Table

Features:

- This product features VELCRO® brand Hook and Loop material
- User can cut to desired length
- Available in two lengths; 5 yards and 25 yards



| Item No.   |            |            |            | A    |      | Roll Length | Pack Qty |
|------------|------------|------------|------------|------|------|-------------|----------|
| Black      | Blue       | Grey       | Red        | in   | mm   |             |          |
| RKWR-3-BK  | RKWR-3-BL  | RKWR-3-GY  | RKWR-3-RD  | 0.50 | 12.7 | 5 Yards     | 1        |
| RKWR-1-BK  | RKWR-1-BL  | RKWR-1-GY  | RKWR-1-RD  | 0.75 | 19.1 | 5 Yards     | 1        |
| RKWR-2-BK  | RKWR-2-BL  | RKWR-2-GY  | RKWR-2-RD  | 1.00 | 25.4 | 5 Yards     | 1        |
| RKWR-3L-BK | RKWR-3L-BL | RKWR-3L-GY | RKWR-3L-RD | 0.50 | 12.7 | 25 Yards    | 1        |
| RKWR-1L-BK | RKWR-1L-BL | RKWR-1L-GY | RKWR-1L-RD | 0.75 | 19.1 | 25 Yards    | 1        |
| RKWR-2L-BK | RKWR-2L-BL | RKWR-2L-GY | RKWR-2L-RD | 1.00 | 25.4 | 25 Yards    | 1        |

## RKWRE Series Economy Hook and Loop Roll

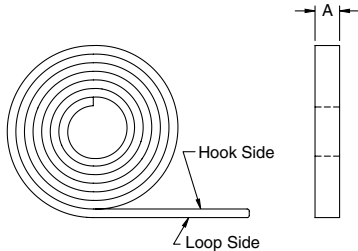


Specifications:

- Material: Hook: Low-Density Polyethylene  
Loop: Nylon Knit
- Color: Black

Features:

- This product features VELCRO® brand hook and loop material
- Similar in function and purpose to the RKWR series of rolls, these economy rolls are made from a lower-profile, economical material
- User can cut to desired length



| Item No. | A    |      | Roll Length | Pack Qty |
|----------|------|------|-------------|----------|
|          | in   | mm   |             |          |
| RKWRE-3L | 0.50 | 12.7 | 25 Yards    | 1        |
| RKWRE-1L | 0.75 | 19.1 | 25 Yards    | 1        |

## RKWRPR Series Plenum Rated Hook and Loop Roll

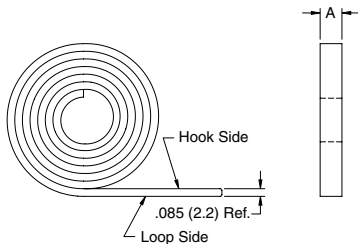


Specifications:

- Material: Hook: UL94 V-2 Black Polypropylene  
Loop: UL94 V-2 Maroon Nylon
- Color: Maroon

Features:

- This product features VELCRO® brand hook and loop material
- Meets UL94 V-2 requirements. UL E143339
- Accepted as a wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- User can cut to desired length



| Item No.  | A    |      | Roll Length | Pack Qty |
|-----------|------|------|-------------|----------|
|           | in   | mm   |             |          |
| RKWRPR-3  | 0.50 | 12.7 | 5 Yards     | 1        |
| RKWRPR-1  | 0.75 | 19.1 | 5 Yards     | 1        |
| RKWRPR-2  | 1.00 | 25.4 | 5 Yards     | 1        |
| RKWRPR-3L | 0.50 | 12.7 | 25 Yards    | 1        |
| RKWRPR-1L | 0.75 | 19.1 | 25 Yards    | 1        |
| RKWRPR-2L | 1.00 | 25.4 | 25 Yards    | 1        |



MFTH Series  
Mini Cable Tie Mount with Adhesive Base

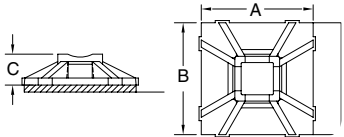


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast



1/2" x 1/2"

| Item No.        |                 | Used w/<br>Cable Ties | Approval | Adhesive | A     |      | B     |      | C    |     |
|-----------------|-----------------|-----------------------|----------|----------|-------|------|-------|------|------|-----|
| 1000/Bag        | 100/Bag         |                       |          |          | in    | mm   | in    | mm   | in   | mm  |
| MFTH-2-01A-RT-M | MFTH-2-01A-RT-C | 18 lbs.               |          | Acrylic  | 0.500 | 12.7 | 0.500 | 12.7 | 0.14 | 3.5 |
| MFTH-2-01A1-M   | MFTH-2-01A1-C   | 18 lbs.               |          | Rubber   | 0.500 | 12.7 | 0.500 | 12.7 | 0.14 | 3.5 |

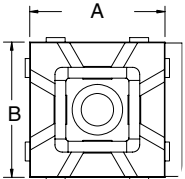
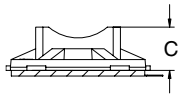
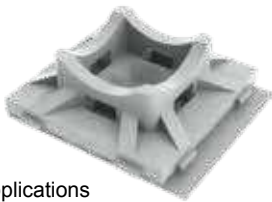
FTH-5/FTH-7 Series  
Four Way Cable Tie Mount

Specifications:

- Material: UL94 V-2 Nylon 6/6  
(Black is UV Stabilized)
- Color: See Table

Features:

- Now available in high bond acrylic adhesive for demanding applications
- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Rubber adhesive develops its strength extremely fast
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time



3/4" x 3/4"

| Item No. Natural |              |             | Item No. Black  |                 | Approval | Used w/<br>Cable Ties | Adhesive          | Recommended<br>Mounting Screw | A     | B     | C    |
|------------------|--------------|-------------|-----------------|-----------------|----------|-----------------------|-------------------|-------------------------------|-------|-------|------|
| 1000/Bag         | 100/Bag      | 10/Bag      | 1000/Bag        | 100/Bag         |          |                       |                   |                               | in    | in    | in   |
| FTH-5A-RT-M      | FTH-5A-RT-C  | —           | FTH-5A-RT-UVB-M | FTH-5A-RT-UVB-C |          | 18 & 40 lbs.          | Acrylic           | #6 and M3.5 Flat Head         | 0.750 | 0.750 | 0.24 |
| FTH-5A1-RT-M     | FTH-5A1-RT-C | —           | —               | —               |          | 18 & 40 lbs.          | Rubber            | #6 and M3.5 Flat Head         | 0.750 | 0.750 | 0.24 |
| —                | —            | • FTH-5-DHB | —               | —               | —        | 18 & 40 lbs.          | High Bond Acrylic | #6 and M3.5 Flat Head         | 0.750 | 0.750 | 0.24 |
| FTH-5-01-M       | FTH-5-01-C   | —           | FTH-5-UVB-M     | FTH-5-UVB-C     |          | 18 & 40 lbs.          | Screw Mount       | #6 and M3.5 Flat Head         | 0.750 | 0.750 | 0.24 |

1" x 1"

| Item No. Natural |              |             | Item No. Black  |                 | Approval | Used w/<br>Cable Ties | Adhesive          | Recommended<br>Mounting Screw | A     | B     | C    |
|------------------|--------------|-------------|-----------------|-----------------|----------|-----------------------|-------------------|-------------------------------|-------|-------|------|
| 1000/Bag         | 100/Bag      | 10/Bag      | 1000/Bag        | 100/Bag         |          |                       |                   |                               | in    | in    | in   |
| FTH-7A-RT-M      | FTH-7A-RT-C  | —           | FTH-7A-RT-UVB-M | FTH-7A-RT-UVB-C |          | 50 lbs.               | Acrylic           | #8 and M4 Flat Head           | 1.000 | 1.000 | 0.28 |
| FTH-7A1-RT-M     | FTH-7A1-RT-C | —           | —               | —               |          | 50 lbs.               | Rubber            | #8 and M4 Flat Head           | 1.000 | 1.000 | 0.28 |
| —                | —            | • FTH-7-DHB | —               | —               | —        | 50 lbs.               | High Bond Acrylic | #8 and M4 Flat Head           | 1.000 | 1.000 | 0.28 |
| FTH-7-01-M       | FTH-7-01-C   | —           | FTH-7-UVB-M     | FTH-7-UVB-C     |          | 50 lbs.               | Screw Mount       | #8 and M4 Flat Head           | 1.000 | 1.000 | 0.28 |

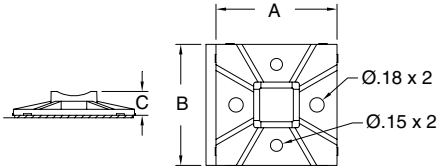
FTH-8/FTH-10 Series  
Four Way Cable Tie Mount

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Low profile for tight spaces



1-1/2" x 1-1/2"

| Item No.    |             | Used with<br>Cable Ties | Approval | Adhesive | Recommended<br>Mounting Screw | A     |      | B     |      | C    |     |
|-------------|-------------|-------------------------|----------|----------|-------------------------------|-------|------|-------|------|------|-----|
| 1000/Bag    | 100/Bag     |                         |          |          |                               | in    | mm   | in    | mm   | in   | mm  |
| FTH-8A-RT-M | FTH-8A-RT-C | 50 & 120 lbs.           |          | Acrylic  | 2 x #6, #8 or M4              | 1.500 | 38.1 | 1.500 | 38.1 | 0.30 | 7.6 |

2" x 2"

| Item No.     |              | Used with<br>Cable Ties | Approval | Adhesive | Recommended<br>Mounting Screw | A     |      | B    |      | C    |     |
|--------------|--------------|-------------------------|----------|----------|-------------------------------|-------|------|------|------|------|-----|
| 1000/Bag     | 100/Bag      |                         |          |          |                               | in    | mm   | in   | mm   | in   | mm  |
| FTH-10A-RT-M | FTH-10A-RT-C | 50 & 120 lbs.           |          | Acrylic  | 2 x #6, #8 or M4              | 2.000 | 50.8 | 2.00 | 50.8 | 0.30 | 7.6 |

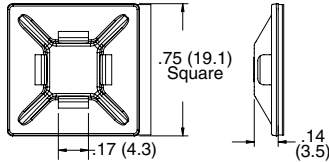


CABLE TIE MOUNTS

FTH-40 Series  
Low Profile Cable Tie Mount with Adhesive

- Specifications:
- Material: UL94 HB ABS
  - Color: White

- Features:
- Cable ties can be inserted from all four sides
  - Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
  - Rubber adhesive develops its strength extremely fast
  - Low profile for tight spaces



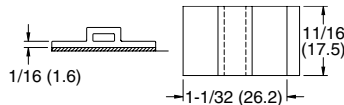
3/4" x 3/4"

| Item No.    | Used w/ Cable Ties | Adhesive | Bulk Pack Qty |
|-------------|--------------------|----------|---------------|
| FTH-40      | 18 & 40 lbs.       | None     | 1000          |
| FTH-40A-RT  | 18 & 40 lbs.       | Acrylic  | 1000          |
| FTH-40A1-RT | 18 & 40 lbs.       | Rubber   | 1000          |

FTH-2 Series  
Cable Tie Mount on Adhesive Base

- Specifications:
- Material: UL94 V-1 PPE/PS
  - Color: White

- Features:
- Easily applied

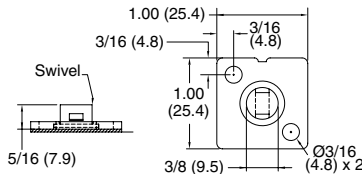


| Part Number | Used w/ Cable Ties | Approval | Bulk Pack Qty |
|-------------|--------------------|----------|---------------|
| FTH-2A-RT-C | 18 & 50 lbs.       |          | 100           |
| FTH-2A-RT-M | 18 & 50 lbs.       |          | 1000          |

FTH-4 Series  
Cable Tie Mount with Swivel

- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Natural

- Features:
- Unique swivel head allows 360° rotation of the mounted bundle



| Part Number | Used w/ Cable Ties | Approval | Recommended Mounting Screw | Bulk Pack Qty |
|-------------|--------------------|----------|----------------------------|---------------|
| FTH-4A-RT-M | 18 & 40 lbs.       |          | #8 or M4                   | 1000          |

PLASTIC FASTENERS

800 847 0486

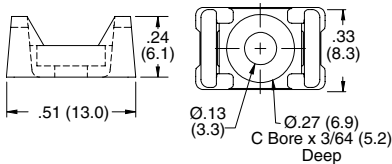
www.essentracomponents.com



# CABLE TIE MOUNTS



## FTH-28RS Series Rivet/Screw Mount Cable Tie Mount



### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

### Features:

- Mounts with a screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle

| Mounting Rivets for FTH-28RS |           |                    |
|------------------------------|-----------|--------------------|
| Panel Thickness              |           | Use Rivet Item No. |
| In                           | mm        |                    |
| Up to 0.034                  | Up to 0.9 | SR-3035            |
| 0.034 - 0.073                | Up to 0.9 | SR-3045            |
| 0.073 - 0.113                | 1.9 - 2.9 | SR-3055            |
| 0.113 - 0.152                | 2.9 - 3.9 | SR-3065            |
| 0.152 - 0.191                | 3.9 - 4.9 | SR-3075            |
| 0.172 - 0.211                | 4.4 - 5.4 | SR-3080            |
| 0.211 - 0.250                | 5.4 - 6.4 | SR-3090            |
| 0.250 - 0.290                | 6.4 - 7.4 | SR-3100            |

| Item No.    | Used w/ Cable Ties | Recommended Mounting Screw        | Pack Qty |
|-------------|--------------------|-----------------------------------|----------|
| FTH-28RS-01 | 18 & 40 lbs.       | #4, M3 Screw, SR-3XXX (See Table) | 1000     |

## FTH-13/FTH-14 Series Rivet/Screw Mount Cable Tie Mount



### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

### Features:

- Mounts with screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle
- Rivets found on page 120

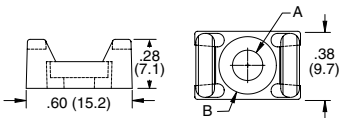


Figure 1

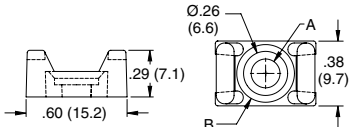


Figure 2

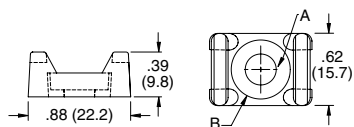


Figure 3

| Item No.     | 1000/Bag | 100/Bag      | Approval | Figure | Used w/ Cable Ties | A in | A mm | B in | B mm | Mounting Method          | Bulk Pack Qty |
|--------------|----------|--------------|----------|--------|--------------------|------|------|------|------|--------------------------|---------------|
| FTH-13R-01-M |          | FTH-13R-01-C | UL       | 1      | 18 - 50 lbs.       | 0.17 | 4.3  | 0.32 | 8.1  | #8 or M4 screw or rivet  | 1000          |
| FTH-13S-01-M |          | FTH-13S-01-C | UL       | 2      | 18 - 50 lbs.       | 0.17 | 4.3  | 0.32 | 8.1  | #6 or M3/#8 or M4 screw  | 1000          |
| FTH-14R-01-M |          | FTH-14R-01-C | UL       | 3      | 18 - 120 lbs.      | 0.21 | 5.2  | 0.38 | 9.5  | #10 or M5 screw or rivet | 1000          |
| FTH-14S-01-M |          | FTH-14S-01-C | UL       | 3      | 18 - 120 lbs.      | 0.26 | 6.6  | 0.49 | 12.5 | 1/4 or M6 screw          | 1000          |

| Mounting Rivets for Figure 1 |           |                       |
|------------------------------|-----------|-----------------------|
| Panel Thickness              |           | Use Rivet Part Number |
| In                           | mm        |                       |
| 0.018 - 0.058                | 0.5 - 1.5 | SR-4050               |
| 0.058 - 0.097                | 1.5 - 2.5 | SR-4060               |
| 0.097 - 0.137                | 2.5 - 3.5 | SR-4070               |
| 0.137 - 0.176                | 3.5 - 4.5 | SR-4080               |
| 0.215 - 0.255                | 5.5 - 6.5 | SR-4100               |

| Mounting Rivets for Figure 3 |           |                       |
|------------------------------|-----------|-----------------------|
| Panel Thickness              |           | Use Rivet Part Number |
| In                           | mm        |                       |
| 0.020 - 0.048                | 0.5 - 1.2 | SR-5055               |
| 0.048 - 0.087                | 1.2 - 2.2 | SR-5065               |
| 0.087 - 0.127                | 2.2 - 3.2 | SR-5075               |
| 0.127 - 0.166                | 3.2 - 4.2 | SR-5085               |
| 0.166 - 0.205                | 4.2 - 5.2 | SR-5095               |
| 0.205 - 0.245                | 5.2 - 6.2 | SR-5105               |

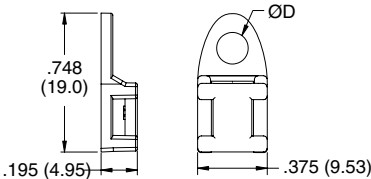
## FTH-34/FTH-35 Series Screw Mount Cable Tie Mount

### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

### Features:

- Cable ties can be inserted from all four sides
- Small size allows for use where space is limited



| Item No.  | Ø Hole D |     | Used with Cable Ties | Accepts Screw Size | Bulk Pack Qty |
|-----------|----------|-----|----------------------|--------------------|---------------|
|           | In       | mm  |                      |                    |               |
| FTH-34-01 | 0.170    | 4.3 | 18 - 50 lbs.         | #8 or M4           | 1000          |
| FTH-35-01 | 0.200    | 5.1 | 18 - 50 lbs.         | #10 or M5          | 1000          |



CABLE TIE MOUNTS

FTH-1/FTH-11 Series  
Low Profile Screw Mount Cable Tie Mount



- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Natural

- Features:
- Mounts with a #8 or M4 screw
  - Low profile for limited space
  - FTH-11-8-01 secures bundle length with multiple cable ties

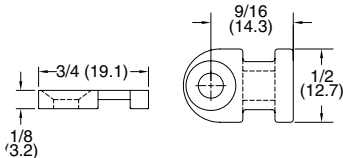


Figure 1

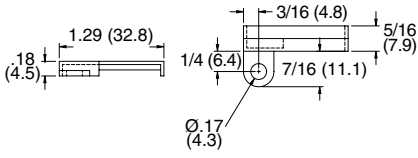


Figure 2

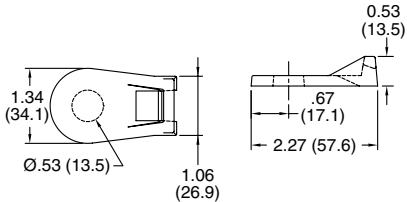
| Item No.    | Approval | Figure | Used w/ Cable Ties | Accepts Screw Size | Bulk Pack Qty |
|-------------|----------|--------|--------------------|--------------------|---------------|
| FTH-1-01-M  |          | 1      | 18 - 50 lbs.       | #8 or M4           | 1000          |
| FTH-11-8-01 |          | 2      | 18 - 50 lbs.       | #8 or M4           | 100           |

FTH-17 Series  
Heavy Duty Screw Mount Cable Tie Mount



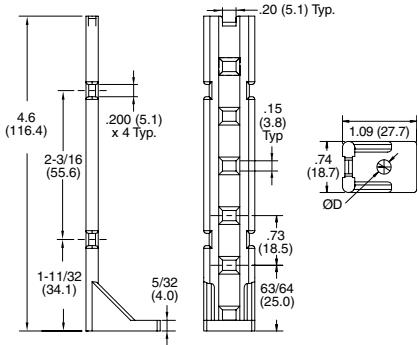
- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Natural

- Features:
- Can be used with ties up to 250 lbs.
  - Low profile for tight spaces



| Item No.    | Accepts Screw Size | Used w/ Cable Ties | Bulk Pack Qty |
|-------------|--------------------|--------------------|---------------|
| FTH-17-8-01 | 1/2 or M12         | All Ties           | 100           |

FTH-24 Series  
Screw Mount Wire Harness  
Cable Tie Mount



- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Natural

- Features:
- Allows tying up multiple bundles of cables
  - Supports cable bundles above the surface

| Item No.    | Mounting Method | Approval | Ø D  |     | Used w/ Cable Ties | Bulk Pack Qty |
|-------------|-----------------|----------|------|-----|--------------------|---------------|
| FTH-24-01   | #10 or M5 Screw |          | in   | mm  | 18 - 50 lbs.       | 100           |
| FTH-24-1-01 | 1/4 or M6 Screw |          | 0.21 | 5.2 | 18 - 50 lbs.       | 100           |

CABLE TIE MOUNTS

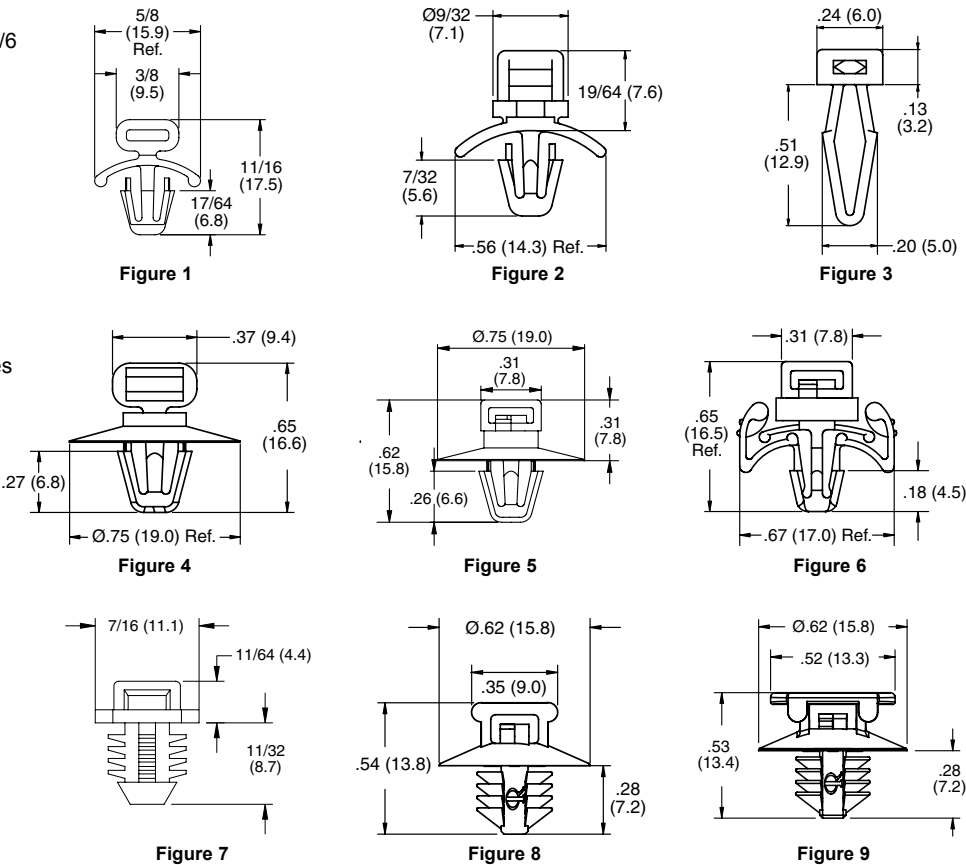


FTH Series  
Snap In Cable Tie Mounts



- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: See Table

- Features:
- Requires no adhesive or other mounting hardware
  - Can be used in applications where back of panel is not accessible
  - Figures 5,6,8, and 9 have pressure-hold feature that holds cable tie inside the tie holder
  - Figures 4,5,8, and 9 have a cupped base that provides stability and also cover the mounting hole

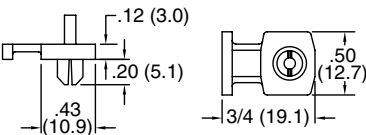


| Item No.    |             | Approval | Figure | Ø Mounting Hole |           | Panel Thickness |           | Used w/<br>Cable Ties | Bulk Pack Qty |
|-------------|-------------|----------|--------|-----------------|-----------|-----------------|-----------|-----------------------|---------------|
| Natural     | Black       |          |        | in              | mm        | in              | mm        |                       |               |
| FTH-6-01-M  | —           | ✓        | 1      | 0.250           | 6.4       | 0.047 - 0.109   | 1.2 - 2.8 | 18 - 50 lbs.          | 1000          |
| FTH-6-01-C  | —           | ✓        | 1      | 0.250           | 6.4       | 0.047 - 0.109   | 1.2 - 2.8 | 18 - 50 lbs.          | 100           |
| FTH-3-01-M  | —           | ✓        | 2      | 0.187           | 4.8       | 0.031 - 0.078   | 0.8 - 2.0 | 18 - 50 lbs.          | 1000          |
| FTH-3-01-C  | —           | ✓        | 2      | 0.187           | 4.8       | 0.031 - 0.078   | 0.8 - 2.0 | 18 - 50 lbs.          | 100           |
| FTH-39-1-01 | —           | —        | 3      | 0.126           | 3.2       | 0.039 - 0.177   | 1.0 - 4.5 | 18 lbs.               | 1000          |
| FTH-29-01   | —           | —        | 4      | 0.250           | 6.4       | 0.062           | 1.6       | 18 - 50 lbs.          | 1000          |
| FTH-33-01   | —           | —        | 5      | 0.250           | 6.4       | 0.062           | 1.6       | 40 - 50 lbs.          | 1000          |
| FTH-41-01   | —           | —        | 6      | 0.187           | 4.8       | 0.020 - 0.090   | 0.5 - 2.3 | 18 - 50 lbs.          | 1000          |
| FTH-15-01-M | —           | ✓        | 7      | 0.312           | 7.8       | 0.250           | 6.4       | 18 - 40 lbs.          | 1000          |
| FTH-15-01-C | —           | ✓        | 7      | 0.312           | 7.8       | 0.250           | 6.4       | 18 - 40 lbs.          | 100           |
| —           | FTH-36-01BK | —        | 8      | 0.260 - 0.280   | 6.5 - 7.0 | 0.030 - 0.120   | 0.8 - 3.0 | 40 - 50 lbs.          | 1000          |
| —           | FTH-37-01BK | —        | 9      | 0.260 - 0.280   | 6.5 - 7.0 | 0.030 - 0.120   | 0.8 - 3.0 | 40 - 50 lbs.          | 1000          |

FTH-22 Series  
Rivet Mount Cable Tie Mount

- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: Yellow

- Features:
- Rivet designed into part expands to lock the tie holder in place
  - Low profile design for where space is limited



| Item No.  | Ø Mounting Hole |     | Panel Thickness |           | Used with Cable Ties | Bulk Pack Qty |
|-----------|-----------------|-----|-----------------|-----------|----------------------|---------------|
|           | in              | mm  | in              | mm        |                      |               |
| FTH-22-01 | 0.196           | 5.0 | 0.030 - 0.125   | 0.8 - 3.2 | 18 - 50 lbs.         | 1000          |



CABLE TIE MOUNTS

FTH-9 Series  
Reverse Mount Cable Tie Mount

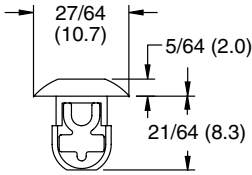


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

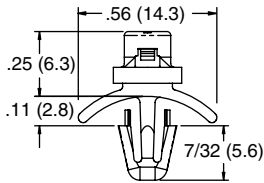
Features:

- Snap locks into place from outside of the chassis
- Low profile on the inside of the chassis
- Both sides of the panel must be accessible

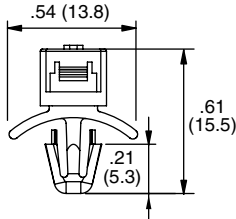


| Item No.   | Approval | Ø Mounting Hole |     | Panel Thickness |     | Accepts Cable Ties with Tensile lbs. | Bulk Pack Qty |
|------------|----------|-----------------|-----|-----------------|-----|--------------------------------------|---------------|
|            |          | in              | mm  | in              | mm  |                                      |               |
| FTH-9-01-M |          | 0.250           | 6.4 | 0.125           | 3.2 | 18 - 50                              | 1000          |
| FTH-9-01-C |          | 0.250           | 6.4 | 0.125           | 3.2 | 18 - 50                              | 100           |

FTH-30 Series  
Cable Tie Mount with Cable Tie Head



FTH-30-01



FTH-30-1-01

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

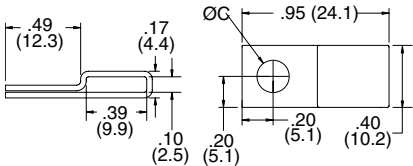
Features:

- Cable tie head contained in the tie holder
- Good for application in which a bundle is already wrapped
- Simply insert the end of the cable tie for secure hold



| Item No.    | Ø Mounting Hole |     | Panel Thickness |           | Accepts Cable Ties with Tensile Lbs. | Bulk Pack Qty |
|-------------|-----------------|-----|-----------------|-----------|--------------------------------------|---------------|
|             | in              | mm  | in              | mm        |                                      |               |
| FTH-30-01   | 0.187           | 4.8 | 0.031 - 0.078   | 0.8 - 2.0 | 18                                   | 1000          |
| FTH-30-1-01 | 0.187           | 4.8 | 0.031 - 0.078   | 0.8 - 2.0 | 50                                   | 1000          |

MTH1 Series  
Stainless Steel Tie Holder



Specifications:

- Material: 304 Stainless Steel

Features:

- Low profile design
- Mounts with a screw or rivet

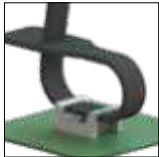
See page 218 for Stainless Steel Cable Ties.



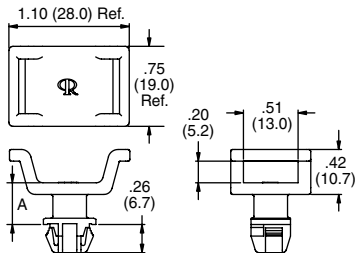
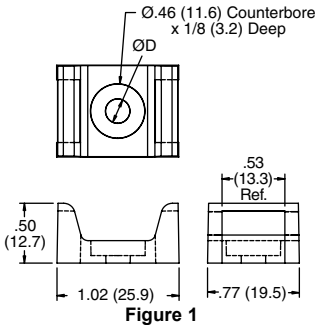
| Item No. | C Hole |     | Recommended Mounting Screw | Bulk Pack Qty |
|----------|--------|-----|----------------------------|---------------|
|          | in     | mm  |                            |               |
| MTH1-1   | 0.177  | 4.5 | #8 or M4                   | 100           |
| MTH1-2   | 0.213  | 5.4 | #10 or M5                  | 100           |
| MTH1-3   | 0.266  | 6.8 | 1/4 or M6                  | 100           |



**FTH-27 Series**  
**Hook and Loop Cable Tie Mount**



- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: See Table
- Features:
- Mounts 1/2" RKW Hook and Loop Ties



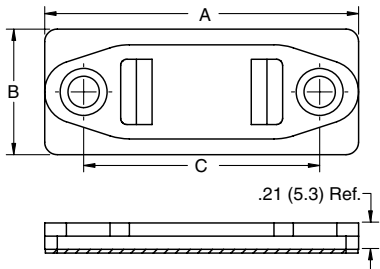
See page 223 for Hook and Loop Cable Ties.

| Item No.      | Color   | Accepts Hook and Loop Up To Width |    | Figure | Mounting Method         | D     |     | A     |      | Panel Thickness |           | Bulk Pack Qty |
|---------------|---------|-----------------------------------|----|--------|-------------------------|-------|-----|-------|------|-----------------|-----------|---------------|
|               |         | in                                | mm |        |                         | in    | mm  | in    | mm   | in              | mm        |               |
| FTH-27-RS-01  | Natural | 0.510                             | 13 | 1      | #10, M5 or #12 Screw    | 0.205 | 5.2 | —     | —    | —               | —         | 1000          |
| FTH-27-12-01  | Natural | 0.510                             | 13 | 1      | #10, M5 or #12 Screw    | 0.230 | 5.8 | —     | —    | —               | —         | 1000          |
| FTH-27-1-01BK | Black   | 0.510                             | 13 | 2      | 0.370 (9.5) Square Hole | —     | —   | 0.120 | 3.0  | 0.030 - 0.080   | 0.8 - 2.0 | 500           |
| FTH-27-2-01BK | Black   | 0.510                             | 13 | 2      | 0.370 (9.5) Square Hole | —     | —   | 0.390 | 10.0 | 0.030 - 0.080   | 0.8 - 2.0 | 500           |

**FTH-RKW Series**  
**Hook and Loop Cable Tie Mount**



- Specifications:
- Material: Polyethylene
  - Color: Black
- Features:
- Mounts with adhesive or screws



See page 223 for Hook and Loop Cable Ties.

| Item No.   | Accepts Hook and Loop Up To Width |      | Mounting Method | A     |      | B     |      | C     |      | Bulk Pack Qty |
|------------|-----------------------------------|------|-----------------|-------|------|-------|------|-------|------|---------------|
|            | in                                | mm   |                 | in    | mm   | in    | mm   | in    | mm   |               |
| FTH-RKW-1  | 0.500                             | 12.7 | 1/4" Screw      | 2.500 | 63.5 | 1.000 | 25.4 | 1.880 | 47.8 | 100           |
| FTH-RKW-1A | 0.500                             | 12.7 | Adhesive        | 2.500 | 63.5 | 1.000 | 25.4 | 1.880 | 47.8 | 100           |
| FTH-RKW-2  | 1.000                             | 25.4 | 1/4" Screw      | 3.250 | 82.6 | 1.500 | 38.1 | 2.620 | 66.5 | 100           |
| FTH-RKW-2A | 1.000                             | 25.4 | Adhesive        | 3.250 | 82.6 | 1.500 | 38.1 | 2.620 | 66.5 | 100           |



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# CABLE TIE MOUNTS

## Edge Mount Cable Tie Mount

### Specifications:

- Material: UL94 V-2 Nylon 6/6 and 302 Stainless Steel
- Color: Black

### Features:

- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
- Retention of 450 lbs. based on a 0.078 panel thickness
- Available with or without a pre-installed cable tie
- Types 1 through 5 do not come with cable tie pre-installed



Type 1



Type 2



Type 3

Type 4

Type 5



Type 6



Type 7



Type 8



Type 9

| Item No. | Used w/ Cable Ties | Pre-Installed Cable Tie | Type | Panel Thickness |           | Width |      | Length |      | Height |       | Bulk Pack Qty |
|----------|--------------------|-------------------------|------|-----------------|-----------|-------|------|--------|------|--------|-------|---------------|
|          |                    |                         |      | in              | mm        | in    | mm   | in     | mm   | in     | mm    |               |
| 550243   | Up to 50 Lbs.      | —                       | 1    | 0.028 - 0.118   | 0.7 - 3.0 | 0.472 | 12.0 | 0.591  | 15.0 | 0.622  | 15.8  | 100           |
| 550244   | Up to 50 Lbs.      | —                       | 3    | 0.028 - 0.118   | 0.7 - 3.0 | 0.574 | 13.9 | 0.591  | 15.0 | 0.614  | 15.6  | 100           |
| 550245   | Up to 50 Lbs.      | —                       | 2    | 0.028 - 0.118   | 0.7 - 3.0 | 0.472 | 12.0 | 0.591  | 15.0 | 0.614  | 15.6  | 100           |
| 550246   | Up to 50 Lbs.      | —                       | 2    | 0.118 - 0.236   | 3.0 - 6.0 | 0.594 | 15.1 | 0.787  | 20.0 | 0.740  | 18.8  | 100           |
| 550247   | Up to 50 Lbs.      | —                       | 3    | 0.028 - 0.118   | 0.7 - 3.0 | 0.547 | 13.9 | 0.591  | 15.0 | 0.614  | 15.6  | 100           |
| 550248   | Up to 50 Lbs.      | —                       | 1    | 0.118 - 0.236   | 3.0 - 6.0 | 0.594 | 15.1 | 0.787  | 20.0 | 0.756  | 19.2  | 100           |
| 550249   | Up to 50 Lbs.      | —                       | 4    | 0.118 - 0.236   | 3.0 - 6.0 | 0.673 | 17.1 | 0.787  | 20.0 | 0.748  | 19.0  | 100           |
| 550250   | Up to 50 Lbs.      | —                       | 3    | 0.118 - 0.236   | 3.0 - 6.0 | 0.673 | 17.1 | 0.787  | 20.0 | 0.740  | 18.8  | 100           |
| 550251   | Up to 50 Lbs.      | —                       | 5    | 0.028 - 0.118   | 0.7 - 3.0 | 0.594 | 15.1 | 0.591  | 15.0 | 0.594  | 15.1  | 100           |
| 550252   | —                  | 7.87 (200), 50 Lbs.     | 1    | 0.028 - 0.118   | 0.7 - 3.0 | 0.472 | 12.0 | 0.591  | 15.0 | 0.622  | 15.8  | 100           |
| 550253   | —                  | 7.87 (200), 50 Lbs.     | 3    | 0.028 - 0.118   | 0.7 - 3.0 | 0.574 | 13.9 | 0.591  | 15.0 | 0.614  | 15.6  | 100           |
| 550254   | —                  | 7.87 (200), 50 Lbs.     | 2    | 0.028 - 0.118   | 0.7 - 3.0 | 0.472 | 12.0 | 0.591  | 15.0 | 0.614  | 15.6  | 100           |
| 550255   | —                  | 7.87 (200), 50 Lbs.     | 2    | 0.118 - 0.236   | 3.0 - 6.0 | 0.594 | 15.1 | 0.787  | 20.0 | 0.740  | 18.8  | 100           |
| 550256   | —                  | 7.87 (200), 50 Lbs.     | 3    | 0.028 - 0.118   | 0.7 - 3.0 | 0.574 | 13.9 | 0.591  | 15.0 | 0.614  | 15.6  | 100           |
| 550257   | —                  | 7.87 (200), 50 Lbs.     | 1    | 0.118 - 0.236   | 3.0 - 6.0 | 0.594 | 15.1 | 0.787  | 20.0 | 0.756  | 19.2  | 100           |
| 550258   | —                  | 7.87 (200), 50 Lbs.     | 4    | 0.118 - 0.236   | 3.0 - 6.0 | 0.673 | 17.1 | 0.787  | 20.0 | 0.748  | 19.0  | 100           |
| 550259   | —                  | 7.87 (200), 50 Lbs.     | 3    | 0.118 - 0.236   | 3.0 - 6.0 | 0.673 | 17.1 | 0.787  | 20.0 | 0.740  | 18.8  | 100           |
| 550260   | —                  | 7.87 (200), 50 Lbs.     | 5    | 0.028 - 0.118   | 0.7 - 3.0 | 0.594 | 15.1 | 0.591  | 15.0 | 0.594  | 15.1  | 100           |
| 550277   | —                  | 5.51 (140), 40 Lbs.     | 6    | 0.028 - 0.118   | 0.7 - 3.0 | 0.591 | 15.0 | 0.787  | 20.0 | 6.575  | 167.0 | 100           |
| 550278   | —                  | 5.51 (140), 40 Lbs.     | 7    | 0.028 - 0.118   | 0.7 - 3.0 | 0.591 | 15.0 | 0.787  | 20.0 | 6.614  | 168.0 | 500           |
| 550279   | —                  | 5.51 (140), 40 Lbs.     | 8    | 0.028 - 0.118   | 0.7 - 3.0 | 0.591 | 15.0 | 0.787  | 20.0 | 6.575  | 167.0 | 100           |
| 550280   | —                  | 5.51 (140), 40 Lbs.     | 9    | 0.028 - 0.118   | 0.7 - 3.0 | 0.591 | 15.0 | 0.787  | 20.0 | 6.575  | 167.0 | 100           |

## FTH-31 Series

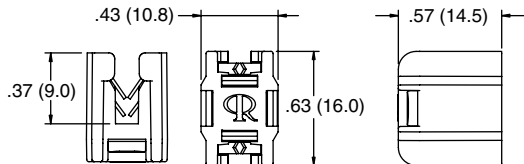
### Edge Mount Cable Tie Mount

### Specifications:

- Material: UL94 V-2 Nylon 6/6 and 304 Stainless Steel
- Color: Black

### Features:

- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
- Tie can be inserted from all four sides
- Retention Force:
  - Steel Panel .03 (0.8) thick: 5 Lbs.
  - Steel Panel .12 (3) thick: 10 Lbs.
  - Plastic Panel .09-.12 (2.4-3) thick: 33 Lbs.



| Item No.  | Panel Thickness |           | Accepts Cable Ties w/ Tensile lbs. | Bulk Pack Qty |
|-----------|-----------------|-----------|------------------------------------|---------------|
|           | in              | mm        |                                    |               |
| FTH-31-01 | 0.03 - 0.12     | 0.8 - 3.0 | 40 - 50 lbs.                       | 1000          |



RX Series  
Flexible Duct

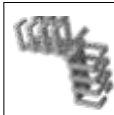
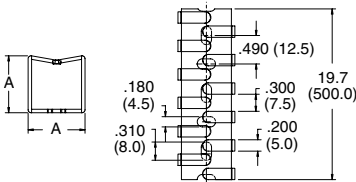


Specifications:

- Material: UL94 V-2 Polypropylene
- Color: Grey

Features:

- Flexible ribs allow the cables to be easily pushed and pulled into and out of channel
- Flexible base makes routing cables from the back and sides of control panels to components mounted on panel doors easy



| Item No.     |             | External A x A |             | Internal A x A |        | Length |       | Bulk Pack Qty |
|--------------|-------------|----------------|-------------|----------------|--------|--------|-------|---------------|
| w/o Adhesive | w/ Adhesive | in             | mm          | in             | mm     | in     | mm    |               |
| RX1313-0     | RX1313-4    | 0.49 x 0.49    | 12.5 x 12.5 | 0.171          | 110.0  | 19.7   | 500.0 | 112           |
| RX1616-0     | RX1616-4    | 0.63 x 0.63    | 16.0 x 16.0 | 0.287          | 185.0  | 19.7   | 500.0 | 84            |
| RX2020-0     | RX2020-4    | 0.79 x 0.79    | 20.0 x 20.0 | 0.496          | 320.0  | 19.7   | 500.0 | 112           |
| RX2525-0     | RX2525-4    | 0.98 x 0.98    | 25.0 x 25.0 | 0.775          | 500.0  | 19.7   | 500.0 | 70            |
| RX3030-0     | RX3030-4    | 1.18 x 1.18    | 30.0 x 30.0 | 1.116          | 720.0  | 19.7   | 500.0 | 50            |
| RX4040-0     | RX4040-4    | 1.57 x 1.5759  | 40.0 x 40.0 | 2.046          | 1320.0 | 19.7   | 500.0 | 50            |
| RX5050-0     | RX5050-4    | 1.97 x 1.99    | 50.0 x 50.0 | 3.162          | 2040.0 | 19.7   | 500.0 | 32            |

SRWD Series  
Slotted Wire Duct

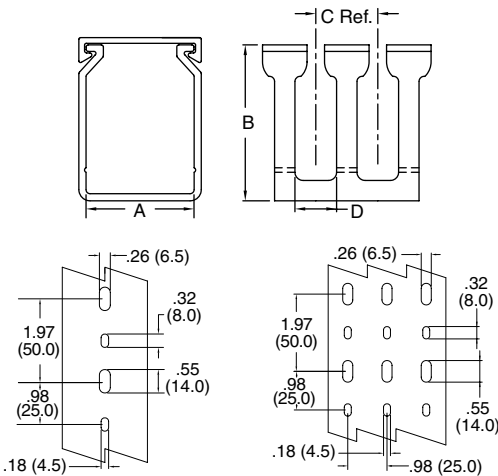


Specifications:

- Material: PVC
- Color: Grey

Features:

- Lid is supplied with the base
- Fingers are scored for easy break off
- Used for general purpose control panel wiring and to route and protect wiring in communication closets
- Holds breakout wires while providing flexibility for adding or removing wires
- Sold in 6-1/2 foot lengths



Mounting Style 1

Mounting Style 2

| Item No.    | Approval | A     |       | B     |      | C    |      | D    |     | Mounting Style | Length |     | In Pack | Pack Qty |
|-------------|----------|-------|-------|-------|------|------|------|------|-----|----------------|--------|-----|---------|----------|
|             |          | in    | mm    | in    | mm   | in   | mm   | in   | mm  |                | ft     | m   |         |          |
| SRWD-1015   |          | 1.000 | 25.4  | 1.500 | 38.1 | 0.79 | 20.0 | 0.31 | 8.0 | 1              | 6.5    | 2.0 | 78 ft   | 1        |
| SRWD-1515   |          | 1.500 | 38.1  | 1.500 | 38.1 | 0.79 | 20.0 | 0.31 | 8.0 | 1              | 6.5    | 2.0 | 78 ft   | 1        |
| SRWD-1520   |          | 1.500 | 38.1  | 2.000 | 50.8 | 0.79 | 20.0 | 0.31 | 8.0 | 1              | 6.5    | 2.0 | 52 ft   | 1        |
| SRWDN1-1530 |          | 1.500 | 38.1  | 3.000 | 76.2 | 0.39 | 10.0 | 0.16 | 4.0 | 1              | 6.5    | 2.0 | 78 ft   | 1        |
| SRWD-2020   |          | 2.000 | 50.8  | 2.000 | 50.8 | 0.79 | 20.0 | 0.31 | 8.0 | 1              | 6.5    | 2.0 | 52 ft   | 1        |
| SRWDN1-2030 |          | 2.000 | 50.8  | 3.000 | 76.2 | 0.39 | 10.0 | 0.16 | 4.0 | 1              | 6.5    | 2.0 | 78 ft   | 1        |
| SRWD-4020   |          | 4.000 | 101.6 | 2.000 | 50.8 | 0.79 | 20.0 | 0.31 | 8.0 | 2              | 6.5    | 2.0 | 26 ft   | 1        |

SCD Series  
Single Cable Duct

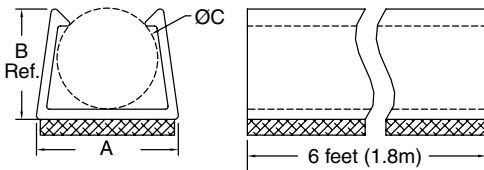


Specifications:

- Material: UL94 V-0 PVC
- Color: Tan

Features:

- Designed to route single coax or computer cable
- Supplied in 6 foot lengths
- Adhesive base for easy mounting



| Item No. | C Holding Ø   |           | A    |     | B Ref. |     | Cable Recommendations   | Length |     | In Pack | Pack Qty |
|----------|---------------|-----------|------|-----|--------|-----|-------------------------|--------|-----|---------|----------|
|          | in            | mm        | in   | mm  | in     | mm  |                         | ft     | m   |         |          |
| SCD-1521 | 0.156 - 0.218 | 4.0 - 5.5 | 0.30 | 7.6 | 0.25   | 6.4 | RG58                    | 6      | 1.8 | 60 ft   | 1        |
| SCD-2228 | 0.218 - 0.280 | 5.5 - 7.1 | 0.36 | 9.1 | 0.29   | 6.6 | RG59, RG62, RG6, 9 Line | 6      | 1.8 | 60 ft   | 1        |



## CABLE DUCT, FLEXIBLE CONDUIT & FITTINGS

### SRL Series

#### Locking Duct on Adhesive Base

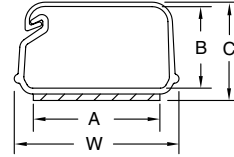


##### Specifications:

- Material: UL94 V-0 PVC
- Color: White

##### Features:

- Adhesive base for fast, easy installation
- When lid is shut the cables are locked into place
- Lightweight and aesthetically pleasing



| Item No.     | A     |      | B    |      | W    |      | C Ref. |      | Length |     | In Pack | Pack Qty |
|--------------|-------|------|------|------|------|------|--------|------|--------|-----|---------|----------|
|              | in    | mm   | in   | mm   | in   | mm   | in     | mm   | ft     | m   |         |          |
| SRL1-3-WH6A  | 0.625 | 15.9 | 0.40 | 10.2 | 0.81 | 20.7 | 0.49   | 12.3 | 6      | 1.8 | 72 ft   | 1        |
| SRL1-5-WH6A  | 0.750 | 19.1 | 0.58 | 14.7 | 0.99 | 25.1 | 0.67   | 8.5  | 6      | 1.8 | 72 ft   | 1        |
| SRL1-10-WH6A | 1.125 | 28.6 | 0.82 | 20.8 | 1.52 | 38.3 | 0.95   | 24.1 | 6      | 1.8 | 72 ft   | 1        |

### CF Series

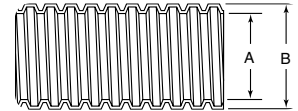
#### PVC Coated Metal Conduit

##### Specifications:

- Material: PVC Coated Steel in Coil
- Color: Black

##### Features:

- Designed to be liquid-tight and has high tensile strength
- Good resistance to corrosion and high heat



| Item No. | Sizes | A ID Min |       | B OD Min |       | Roll Length |    | w |
|----------|-------|----------|-------|----------|-------|-------------|----|---|
|          |       | in       | mm    | in       | mm    | ft          | m  |   |
| CF3020A  | 3/8   | 0.393    | 10.00 | 0.570    | 14.50 | 164         | 50 | 1 |
| CF3060A  | 1/2   | 0.496    | 12.60 | 0.637    | 16.20 | 164         | 50 | 1 |
| CF3090A  | 3/4   | 0.826    | 21.00 | 0.960    | 24.40 | 164         | 50 | 1 |
| CF3140A  | 1     | 1.035    | 26.30 | 1.204    | 30.60 | 164         | 50 | 1 |
| CF3160A  | 1-1/4 | 1.377    | 35.00 | 1.598    | 40.60 | 98          | 30 | 1 |
| CF3180A  | 1-1/2 | 1.586    | 40.30 | 1.811    | 46.00 | 82          | 25 | 1 |
| CF3200A  | 2     | 2.031    | 51.60 | 2.299    | 58.40 | 65          | 20 | 1 |

### MCF Series

#### PVC Coated Metal Conduit

##### Specifications:

- Material: Zinc Alloy
- Connection Type: Set Screw EMT Pipe

##### Features:

- Connects convoluted metal conduit to EMT pipe in order to protect wires or cables



| Item No. | EMT Pipe Sizes | Used With Metal Conduit | Mounting Hole |       | Bulk Pack Qty |
|----------|----------------|-------------------------|---------------|-------|---------------|
|          |                |                         | in            | mm    |               |
| MCF04A   | 1/2            | CF3060A                 | 0.767         | 19.50 | 50            |
| MCF06A   | 3/4            | CF3090A                 | 1.027         | 26.10 | 50            |
| MCF08A   | 1              | CF3140A                 | 1.267         | 32.20 | 30            |
| MCF10A   | 1-1/4          | CF3160A                 | 1.523         | 38.70 | 20            |
| MCF12A   | 1-1/2          | CF3180A                 | 2.035         | 51.70 | 10            |
| MCF14A   | 2              | CF3200A                 | 2.515         | 63.90 | 5             |

### MCF Series

#### Fittings for PVC Pipe to Metal Conduit

##### Specifications:

- Material: Zinc Alloy
- Connection Type: Set Screw EMT Pipe

##### Features:

- Connects convoluted metal conduit to PVC pipe in order to protect wires or cables



| Item No. | PVC Pipe Sizes | Used With Metal Conduit | Mounting Hole |       | Bulk Pack Qty |
|----------|----------------|-------------------------|---------------|-------|---------------|
|          |                |                         | in            | mm    |               |
| MCF106A  | 3/4            | CF3090A                 | 1.091         | 27.70 | 50            |
| MCF108A  | 1              | CF3140A                 | 1.350         | 34.30 | 30            |
| MCF110A  | 1-1/4          | CF3160A                 | 1.724         | 43.80 | 20            |
| MCF112A  | 1-1/2          | CF3180A                 | 2.035         | 51.70 | 10            |
| MCF114A  | 2              | CF3200A                 | 2.516         | 63.90 | 5             |

## FLEXIBLE CONDUIT &amp; FITTINGS

NPT, PG & Metric Threads  
Metal Conduit Fittings

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temperature Range: -40°F to 221°F (-40°C to 105°C)



## Features:

- Provides strong pull out strength and anti-vibration properties
- Eliminates chance of cutting into conduit and creating leak paths
- Reusable

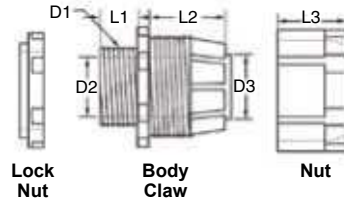


| Item No. | Thread  | Max Joint F1 |       | Used w/<br>Metal Conduit | Thread OD C1 |       | Ø Mounting Hole |               | Thread Length C2 |       | Body Min ID |       | Bulk Pack Qty |
|----------|---------|--------------|-------|--------------------------|--------------|-------|-----------------|---------------|------------------|-------|-------------|-------|---------------|
|          |         | in           | mm    |                          | in           | mm    | in              | mm            | in               | mm    | in          | mm    |               |
| MCF202A  | NPT 1/2 | 0.720        | 18.30 | CF3020A                  | 0.835        | 21.22 | 0.842 - 0.854   | 21.40 - 21.70 | 0.512            | 13.00 | 0.425       | 10.80 | 50            |
| MCF204A  | NPT 3/4 | 0.866        | 22.00 | CF3090A                  | 1.046        | 26.56 | 1.055 - 1.066   | 26.80 - 27.10 | 0.591            | 15.00 | 0.563       | 14.30 | 50            |
| MCF250A  | PG11    | 0.720        | 18.30 | CF3020A                  | 0.732        | 18.60 | 0.732 - 0.744   | 18.60 - 18.90 | 0.394            | 10.00 | 0.425       | 10.80 | 50            |
| MCF252A  | PG13.5  | 0.720        | 18.30 | CF3020A                  | 0.803        | 20.40 | 0.803 - 0.814   | 20.40 - 20.70 | 0.394            | 10.00 | 0.425       | 10.80 | 50            |
| MCF254A  | PG16    | 0.720        | 18.30 | CF3020A                  | 0.886        | 22.50 | 0.885 - 0.897   | 22.50 - 22.80 | 0.433            | 11.00 | 0.425       | 10.80 | 50            |
| MCF256A  | PG16    | 0.866        | 22.00 | CF3060A                  | 0.886        | 22.50 | 0.885 - 0.897   | 22.50 - 22.80 | 0.394            | 10.00 | 0.563       | 14.30 | 50            |
| MCF258A  | PG21    | 0.866        | 22.00 | CF3060A                  | 1.114        | 28.30 | 1.110 - 1.120   | 28.30 - 28.70 | 0.492            | 12.50 | 0.563       | 14.30 | 50            |
| MCF260A  | PG21    | 1.043        | 26.50 | CF3090A                  | 1.114        | 28.30 | 1.110 - 1.120   | 28.30 - 28.70 | 0.472            | 12.00 | 0.709       | 18.00 | 50            |
| MCF262A  | PG29    | 1.358        | 34.50 | CF3140A                  | 1.457        | 37.00 | 1.450 - 1.470   | 37.00 - 37.40 | 0.472            | 12.00 | 0.933       | 23.70 | 10            |
| MCF300A  | M16X1.5 | 0.720        | 18.30 | CF3020A                  | 0.630        | 16.00 | 0.629 - 0.641   | 16.00 - 16.30 | 0.394            | 10.00 | 0.425       | 10.80 | 50            |
| MCF304A  | M20X1.5 | 0.720        | 18.30 | CF3020A                  | 0.787        | 20.00 | 0.787 - 0.799   | 20.00 - 20.30 | 0.394            | 10.00 | 0.425       | 10.80 | 50            |
| MCF306A  | M20X1.5 | 0.866        | 22.00 | CF3060A                  | 0.787        | 20.00 | 0.787 - 0.799   | 20.00 - 20.30 | 0.394            | 10.00 | 0.563       | 14.30 | 50            |
| MCF310A  | M25X1.5 | 0.720        | 18.30 | CF3020A                  | 0.984        | 25.00 | 0.984 - 1.000   | 25.00 - 25.40 | 0.472            | 12.00 | 0.425       | 10.80 | 50            |
| MCF312A  | M25X1.5 | 0.866        | 22.00 | CF3060A                  | 0.984        | 25.00 | 0.984 - 1.000   | 25.00 - 25.40 | 0.394            | 10.00 | 0.563       | 14.30 | 50            |
| MCF314A  | M25X1.5 | 1.043        | 26.50 | CF3090A                  | 0.984        | 25.00 | 0.984 - 1.000   | 25.00 - 25.40 | 0.394            | 10.00 | 0.709       | 18.00 | 50            |
| MCF316A  | M32X1.5 | 0.866        | 22.00 | CF3060A                  | 1.260        | 32.00 | 1.259 - 1.275   | 32.00 - 32.40 | 0.472            | 12.00 | 0.563       | 14.30 | 10            |
| MCF318A  | M32X1.5 | 1.358        | 34.50 | CF3140A                  | 1.260        | 32.00 | 1.259 - 1.275   | 32.00 - 32.40 | 0.394            | 10.00 | 0.933       | 23.70 | 10            |

FCA200 Series  
Flexible Conduit Fittings

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Grey
- Temperature Range: -40°F to 221°F (-40°C to 105°C)



## Features:

- Connects plastic convoluted conduit to control panels, machinery, and other equipment



| Item No. | Ø Mounting Hole |      | Used w/<br>Plastic Conduit | D2    |      | D3    |      | L1    |      | L2    |      | L3    |      | Bulk Pack Qty |
|----------|-----------------|------|----------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|---------------|
|          | in              | mm   |                            | in    | mm   | in    | mm   | in    | mm   | in    | mm   | in    | mm   |               |
| FCA200A  | 0.567           | 14.4 | CF001A                     | 0.248 | 6.3  | 0.295 | 7.5  | 0.382 | 9.7  | 0.728 | 18.5 | 0.626 | 15.9 | 50            |
| FCA202A  | 0.626           | 15.9 | CF003A                     | 0.433 | 11   | 0.425 | 10.8 | 0.394 | 10   | 0.705 | 17.9 | 0.618 | 15.7 | 50            |
| FCA204A  | 0.630           | 16   | CF004A                     | 0.437 | 11.1 | 0.524 | 13.3 | 0.382 | 9.7  | 0.732 | 18.6 | 0.626 | 15.9 | 50            |
| FCA206A  | 0.756           | 19.2 | CF005A                     | 0.591 | 15   | 0.579 | 14.7 | 0.394 | 10   | 0.697 | 17.7 | 0.630 | 16   | 50            |
| FCA208A  | 0.787           | 20   | CF006A                     | 0.606 | 15.4 | 0.677 | 17.2 | 0.386 | 9.8  | 0.693 | 17.6 | 0.642 | 16.3 | 50            |
| FCA210A  | 0.984           | 25   | CF008A                     | 0.744 | 18.9 | 0.780 | 19.8 | 0.449 | 11.4 | 0.929 | 23.6 | 0.811 | 20.6 | 50            |
| FCA212A  | 1.228           | 31.2 | CF009A                     | 1.024 | 26   | 0.957 | 24.3 | 0.472 | 12   | 0.898 | 22.8 | 0.811 | 20.6 | 25            |
| FCA214A  | 1.260           | 32   | CF010A                     | 1.055 | 26.8 | 1.126 | 28.6 | 0.445 | 11.3 | 0.917 | 23.3 | 0.815 | 20.7 | 25            |
| FCA216A  | 1.476           | 37.5 | CF011A                     | 1.240 | 31.5 | 1.244 | 31.6 | 0.445 | 11.3 | 0.929 | 23.6 | 0.815 | 20.7 | 25            |
| FCA218A  | 1.575           | 40   | CF012A                     | 1.287 | 32.7 | 1.370 | 34.8 | 0.453 | 11.5 | 0.917 | 23.3 | 0.819 | 20.8 | 25            |
| FCA220A  | 1.732           | 44   | CF013A                     | 1.476 | 37.5 | 1.594 | 40.5 | 0.496 | 12.6 | 0.878 | 22.3 | 0.815 | 20.7 | 10            |
| FCA222A  | 1.732           | 44   | CF014A                     | 1.476 | 37.5 | 1.555 | 39.5 | 0.496 | 12.6 | 0.850 | 21.6 | 0.815 | 20.7 | 10            |

FCA Series  
Flexible Conduit Adapters

## Specifications:

- Material: UL94 HB ABS
- Color: Grey

## Features:

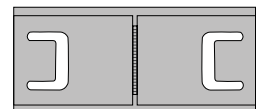
- FCA02A to FCA08A can be used to connect plastic convoluted conduit
- FCA102A to FCA108A can be used to connect plastic convoluted conduit to PVC pipe

## Conduit to Conduit Connector

| Item No. | Used w/ Plastic Conduit | Bulk Pack Qty |
|----------|-------------------------|---------------|
| FCA02A   | CF004A                  | 20            |
| FCA04A   | CF006A                  | 20            |
| FCA06A   | CF008A                  | 20            |
| FCA08A   | CF010A                  | 20            |



Conduit to Conduit

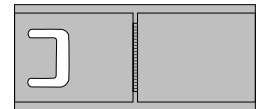


## Conduit to PVC Pipe

| Item No. | Used w/ Plastic Conduit | Bulk Pack Qty |
|----------|-------------------------|---------------|
| FCA102A  | CF004A                  | 20            |
| FCA104A  | CF006A                  | 20            |
| FCA106A  | CF008A                  | 20            |
| FCA108A  | CF010A                  | 20            |



Conduit to PVC Pipe





## FLEXIBLE CONDUIT & FITTINGS

### CF Series

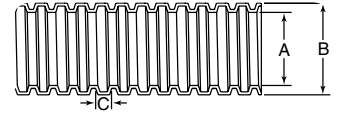
#### Unsplit Polyethylene Conduit

##### Specifications:

- Material: High-Density Polyethylene
- Color: Grey
- Temperature Range: -40°F to 200°F (-40°C to 93°C)

##### Features:

- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring



| Item No. | Ø Nominal |       | A     |       | B     |       | C    |     | Roll Length |   | Pack Qty |
|----------|-----------|-------|-------|-------|-------|-------|------|-----|-------------|---|----------|
|          | in        | mm    | in    | mm    | in    | mm    | in   | mm  | ft          | m |          |
| CF001A   | 1/4       | 0.291 | 7.390 | 0.402 | 10.21 | 0.104 | 2.64 | 984 | 300         | 1 |          |
| CF002A   | 3/8       | 0.421 | 10.69 | 0.555 | 14.10 | 0.080 | 2.04 | 328 | 100         | 1 |          |
| CF003A   | 3/8       | 0.421 | 10.69 | 0.630 | 16.00 | 0.130 | 3.30 | 328 | 100         | 1 |          |
| CF004A   | 1/2       | 0.543 | 13.79 | 0.787 | 19.99 | 0.124 | 3.14 | 328 | 100         | 1 |          |
| CF005A   | 5/8       | 0.555 | 14.10 | 0.866 | 22.00 | 0.144 | 3.66 | 328 | 100         | 1 |          |
| CF006A   | 11/16     | 0.677 | 17.20 | 0.866 | 22.00 | 0.124 | 3.14 | 328 | 100         | 1 |          |
| CF007A   | 3/4       | 0.720 | 18.29 | 0.984 | 24.99 | 0.162 | 4.12 | 328 | 100         | 1 |          |
| CF008A   | 7/8       | 0.835 | 21.21 | 1.016 | 25.81 | 0.124 | 3.14 | 328 | 100         | 1 |          |
| CF009A   | 1         | 0.957 | 24.31 | 1.260 | 32.00 | 0.142 | 3.61 | 164 | 50          | 1 |          |
| CF010A   | 1-1/8     | 1.130 | 28.70 | 1.339 | 34.01 | 0.124 | 3.14 | 164 | 50          | 1 |          |
| CF011A   | 1-1/4     | 1.228 | 31.19 | 1.575 | 40.01 | 0.162 | 4.12 | 164 | 50          | 1 |          |
| CF012A   | 1-3/8     | 1.374 | 34.90 | 1.654 | 42.01 | 0.124 | 3.14 | 164 | 50          | 1 |          |
| CF013A   | 1-1/2     | 1.575 | 40.00 | 1.890 | 48.01 | 0.124 | 3.14 | 164 | 50          | 1 |          |
| CF014A   | 1-5/8     | 1.559 | 39.60 | 1.969 | 50.01 | 0.191 | 4.85 | 164 | 50          | 1 |          |

### CF Series

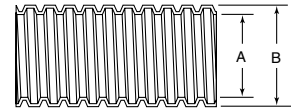
#### Unsplit Nylon Conduit

##### Specifications:

- Material: UL-94 HB Nylon
- Color: Black with Grey Stripe
- Temperature Range: -40°F to 300°F (-40°C to 149°C)

##### Features:

- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring



| Item No. | Ø Nominal |       | A Min |       | A Max |       | B Min |       | B Max |       | Wall Thickness |      | Roll Length |       | Pack Qty |
|----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------|-------------|-------|----------|
|          | in        | mm    | in    | mm    | in    | mm    | in    | mm    | in    | mm    | in             | mm   | ft          | m     |          |
| CF1010A  | 1/4       | 0.237 | 6.02  | 0.266 | 6.76  | 0.375 | 9.53  | 0.400 | 10.16 | 0.040 | 1.02           | 1.02 | 2500        | 762   | 1        |
| CF1020A  | 3/8       | 0.341 | 8.66  | 0.380 | 9.65  | 0.497 | 12.62 | 0.526 | 13.36 | 0.040 | 1.02           | 1.02 | 1500        | 457.2 | 1        |
| CF1040A  | 7/16      | 0.399 | 10.13 | 0.437 | 11.10 | 0.573 | 14.55 | 0.597 | 15.16 | 0.050 | 1.27           | 1.27 | 1500        | 457.2 | 1        |
| CF1060A  | 1/2       | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.700 | 17.78 | 0.050 | 1.27           | 1.27 | 1000        | 304.8 | 1        |
| CF1080A  | 5/8       | 0.603 | 15.32 | 0.639 | 16.23 | 0.805 | 20.45 | 0.837 | 21.26 | 0.050 | 1.27           | 1.27 | 700         | 213.4 | 1        |
| CF1090A  | 3/4       | 0.707 | 17.96 | 0.759 | 19.28 | 0.950 | 24.13 | 0.989 | 25.12 | 0.050 | 1.27           | 1.27 | 450         | 137.2 | 1        |
| 900081   | 7/8       | 0.848 | 21.54 | 0.898 | 22.81 | 1.107 | 28.12 | 1.151 | 29.24 | 0.050 | 1.27           | 1.27 | 400         | 121.9 | 1        |
| CF1140A  | 1         | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.060 | 1.52           | 1.52 | 250         | 76.2  | 1        |
| CF1140B* | 1         | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.060 | 1.52           | 1.52 | 250         | 76.2  | 1        |
| CF1150A  | 1-1/8     | 1.122 | 28.50 | 1.176 | 29.86 | 1.356 | 34.58 | 1.413 | 35.88 | 0.060 | 1.52           | 1.52 | 200         | 60.9  | 1        |
| 900082   | 1-1/4     | 1.199 | 30.45 | 1.257 | 31.93 | 1.446 | 36.73 | 1.500 | 38.10 | 0.060 | 1.52           | 1.52 | 200         | 60.9  | 1        |

\* No grey stripe

### CS Series

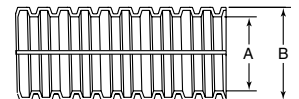
#### Split Polypropylene Conduit

##### Specifications:

- Material: Polypropylene
- Color: Black
- Temperature Range: -40°F to 225°F (-40°C to 107°C)

##### Features:

- Split design for easy installation and removal of wiring
- Wire and cable protection for electrical harnesses
- Flexible body allows for corner/elbow wiring
- Can be used to protect hydraulic hoses



| Item No. | Ø Nominal | A     |       | B     |       | Roll Length |     | Pack Qty |
|----------|-----------|-------|-------|-------|-------|-------------|-----|----------|
|          | in        | in    | mm    | in    | mm    | ft          | m   |          |
| CS001A   | 1/4       | 0.291 | 7.39  | 0.402 | 10.21 | 984         | 300 | 1        |
| CS002A   | 7/16      | 0.421 | 10.69 | 0.630 | 16.00 | 656         | 200 | 1        |
| CS003A   | 1/2       | 0.543 | 13.79 | 0.689 | 17.50 | 656         | 200 | 1        |
| CS004A   | 5/8       | 0.591 | 15.01 | 0.768 | 19.51 | 328         | 100 | 1        |
| CS005A   | 3/4       | 0.760 | 19.30 | 0.937 | 23.80 | 328         | 100 | 1        |
| CS006A   | 7/8       | 0.835 | 21.21 | 1.016 | 25.81 | 328         | 100 | 1        |
| CS007A   | 1         | 0.957 | 24.31 | 1.260 | 32.00 | 164         | 50  | 1        |
| CS008A   | 1         | 0.984 | 24.99 | 1.181 | 30.00 | 164         | 50  | 1        |
| CS009A   | 1-1/8     | 1.102 | 27.99 | 1.339 | 34.01 | 164         | 50  | 1        |
| CS010A   | 1-1/4     | 1.228 | 31.19 | 1.575 | 40.01 | 164         | 50  | 1        |
| CS011A   | 1-5/8     | 1.559 | 39.59 | 1.969 | 50.00 | 164         | 50  | 1        |

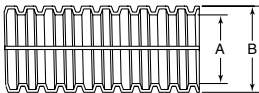
FLEXIBLE CONDUIT, FITTINGS & WRAPS



CS (Nylon) Series  
Split Nylon Conduit

- Specifications:
- Material: UL94 HB Nylon
  - Color: Black with Gray Stripe
  - Temperature Range: -40°F to 300°F (-40°C to 149°C)

- Features:
- Split design for easy installation and removal of wiring
  - Cable protection for electrical wiring harnesses
  - Flexible body allows for corner/elbow wiring
  - Can be used to protect hydraulic hoses
  - Split design for easy installation

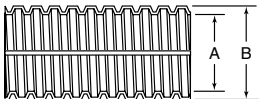


| Item No. | Ø Nominal |  | A Min |       | A Max |       | B Min |       | B Max |       | Wall Thickness |      | Roll Length |       | Pack Qty |
|----------|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------|-------------|-------|----------|
|          |           |  | in    | mm    | in    | mm    | in    | mm    | in    | mm    | in             | mm   | ft          | m     |          |
| CS1020A  | 3/8       |  | 0.341 | 8.66  | 0.380 | 9.65  | 0.497 | 12.62 | 0.526 | 13.36 | 0.040          | 1.02 | 1900        | 579.1 | 1        |
| CS1040A  | 7/16      |  | 0.399 | 10.13 | 0.437 | 11.10 | 0.573 | 14.55 | 0.597 | 15.16 | 0.050          | 1.27 | 1500        | 457.2 | 1        |
| CS1060A  | 1/2       |  | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.700 | 17.78 | 0.050          | 1.27 | 1100        | 335.3 | 1        |
| CS1080A  | 5/8       |  | 0.603 | 15.32 | 0.639 | 16.23 | 0.805 | 20.45 | 0.837 | 21.26 | 0.050          | 1.27 | 800         | 243.8 | 1        |
| CS1090A  | 3/4       |  | 0.707 | 17.96 | 0.759 | 19.28 | 0.950 | 24.13 | 0.989 | 25.12 | 0.050          | 1.27 | 550         | 164.6 | 1        |
| CS1140A  | 1         |  | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.060          | 1.52 | 300         | 91.4  | 1        |

CSEZ Series  
EZ Dispenser Split Nylon Conduit

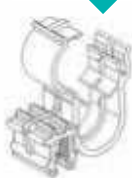
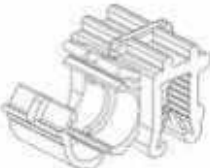
- Specifications:
- Material: UL94 HB Nylon
  - Color: Black with Gray Stripe
  - Temperature Range: -40°F to 300°F (-40°C to 149°C)

- Features:
- Supplied in easy pull dispenser box
  - Tangle free dispenses on interior reel
  - Split design for easy installation and removal



| Item No.  | Ø Nominal |       | A Min |       | A Max |       | B Min |       | B Max |       | Wall Thickness |     | Roll Length |   | Pack Qty |
|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-----|-------------|---|----------|
|           | in        | mm    | in    | mm    | in    | mm    | in    | mm    | in    | mm    | in             | mm  | Ft          | m |          |
| CSEZ1010A | 1/4       | 0.256 | 6.50  | 0.276 | 7.01  | 0.373 | 9.47  | 0.398 | 10.11 | 0.040 | 1.02           | 100 | 30.48       | 1 |          |
| CSEZ1030A | 3/8       | 0.368 | 9.35  | 0.398 | 10.11 | 0.494 | 12.56 | 0.525 | 13.32 | 0.050 | 1.27           | 100 | 30.48       | 1 |          |
| CSEZ1060A | 1/2       | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.700 | 17.78 | 0.050 | 1.27           | 100 | 30.48       | 1 |          |
| CSEZ1080A | 5/8       | 0.603 | 15.32 | 0.639 | 16.23 | 0.805 | 20.45 | 0.837 | 21.26 | 0.050 | 1.27           | 100 | 30.48       | 1 |          |
| CSEZ1090A | 3/4       | 0.707 | 17.96 | 0.759 | 19.28 | 0.950 | 24.13 | 0.989 | 25.12 | 0.050 | 1.27           | 100 | 30.48       | 1 |          |
| CSEZ1140A | 1         | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.060 | 1.52           | 50  | 15.24       | 1 |          |

Edge Mount Conduit Holder



Type 1

Type 2

Type 3

Type 4

Type 5

Type 6

- Specifications:
- Material: Heat Stabilized Nylon 6/6 and 302 Stainless Steel
  - Color: Black
- Features:
- Holds a variety of sizes of corrugated tubing in place
  - Easy to install by pushing onto plastic or metal sheet edge
  - Ideal for applications where holes or adhesive is not suitable



| Item No. | Type | Tube Size mm | Panel Thickness |         | Width |    | Length |    | Height to Center |      | Bulk Pack Qty |
|----------|------|--------------|-----------------|---------|-------|----|--------|----|------------------|------|---------------|
|          |      |              | in              | mm      | in    | mm | in     | mm | in               | mm   |               |
| 550261   | 1    | 4.5          | 0.028 - 0.118   | 0.7 - 3 | 0.591 | 15 | 0.591  | 15 | 0.610            | 15.5 | 100           |
| 550262   | 2    | 4.5          | 0.028 - 0.118   | 0.7 - 3 | 0.591 | 15 | 0.591  | 15 | 0.610            | 15.5 | 100           |
| 550263   | 3    | 4.5          | 0.028 - 0.118   | 0.7 - 3 | 0.787 | 20 | 0.591  | 15 | 0.256            | 6.5  | 100           |
| 550264   | 3    | 4.5          | 0.118 - 0.236   | 3 - 6   | 0.787 | 20 | 0.787  | 20 | 0.303            | 7.7  | 100           |
| 550265   | 4    | 4.5          | 0.118 - 0.236   | 3 - 6   | 0.787 | 20 | 0.787  | 20 | 0.728            | 18.5 | 100           |
| 550266   | 4    | 7.5          | 0.118 - 0.236   | 3 - 6   | 0.591 | 15 | 0.591  | 15 | 0.689            | 17.5 | 100           |
| 550267   | 1    | 10           | 0.118 - 0.236   | 3 - 6   | 0.472 | 12 | 0.866  | 22 | 0.728            | 18.5 | 100           |
| 550268   | 3    | 10           | 0.028 - 0.118   | 0.7 - 3 | 0.866 | 22 | 0.591  | 15 | 0.343            | 8.7  | 100           |
| 550269   | 3    | 10           | 0.118 - 0.236   | 3 - 6   | 0.866 | 22 | 0.787  | 20 | 0.350            | 8.9  | 100           |
| 550270   | 4    | 2 x 10       | 0.028 - 0.118   | 0.7 - 3 | 0.472 | 12 | 1.339  | 34 | 0.764            | 19.4 | 100           |
| 550271   | 5    | 2 x 10       | 0.028 - 0.118   | 0.7 - 3 | 0.591 | 15 | 1.614  | 41 | 0.535            | 13.6 | 100           |
| 550272   | 6    | 2 x 10       | 0.028 - 0.118   | 0.7 - 3 | 1.181 | 30 | 0.591  | 15 | 0.335 / 0.728    | —    | 100           |
| 550273   | 3    | 13           | 0.028 - 0.118   | 0.7 - 3 | 0.591 | 15 | 0.591  | 15 | 0.413            | 10.5 | 100           |
| 550274   | 2    | 13           | 0.118 - 0.236   | 3 - 6   | 0.906 | 23 | 0.787  | 20 | 0.917            | 23.3 | 100           |
| 550275   | 1    | 13           | 0.118 - 0.236   | 3 - 6   | 0.512 | 13 | 0.906  | 23 | 0.787            | 20   | 100           |
| 550276   | 2    | 17           | 0.028 - 0.118   | 0.7 - 3 | 1.181 | 30 | 0.591  | 15 | 0.894            | 22.7 | 100           |



## WRAPS

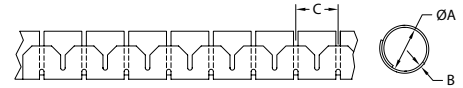
SHR Series  
Slit Harness Wrap

## Specifications:

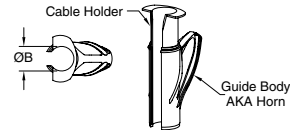
- Material: See Table
- Color: Black

## Features:

- Protects wires from wear
- Easy to install



| Item No.         |            |            |          | Max Bundle Range |      | A     |      | B     |     | C     |      | Roll Length |     | Installation Tool Part Number | Pack Qty |
|------------------|------------|------------|----------|------------------|------|-------|------|-------|-----|-------|------|-------------|-----|-------------------------------|----------|
| UL94 V-0 Nylon 6 | Nylon 6    | LDPE       | Approval | In               | mm   | In    | mm   | In    | mm  | In    | mm   | Ft          | m   |                               |          |
| SHR-05-6V0B      | SHR-05-6NB | SHR-05-PPB | UL       | 0.240            | 6.0  | 0.200 | 5.0  | 0.032 | 0.8 | 0.390 | 10.0 | 328         | 100 | CAT-05-PP-BL                  | 1        |
| SHR-08-6V0B      | SHR-08-6NB | SHR-08-PPB | UL       | 0.390            | 10.0 | 0.310 | 8.0  | 0.032 | 0.8 | 0.390 | 10.0 | 328         | 100 | CAT-08-PP                     | 1        |
| SHR-15-6V0B      | SHR-15-6NB | SHR-15-PPB | UL       | 0.630            | 16.0 | 0.590 | 15.0 | 0.032 | 0.8 | 0.550 | 14.0 | 164         | 50  | CAT-15-PP                     | 1        |
| SHR-20-6V0B      | SHR-20-6NB | SHR-20-PPB | UL       | 0.900            | 23.0 | 0.790 | 20.0 | 0.035 | 0.9 | 0.670 | 17.0 | 98          | 30  | CAT-20-PP                     | 1        |
| SHR-25-6V0B      | SHR-25-6NB | SHR-25-PPB | UL       | 0.980            | 25.0 | 0.980 | 25.0 | 0.039 | 1.0 | 0.790 | 20.0 | 66          | 20  | CAT-25-PP                     | 1        |
| SHR-32-6V0B      | SHR-32-6NB | SHR-32-PPB | UL       | 1.250            | 32.0 | 1.250 | 32.0 | 0.050 | 1.3 | 0.980 | 24.9 | 49          | 15  | CAT-32-PP                     | 1        |

CAT Series  
Installation Tool for SHR

## Features:

- The easiest and quickest way to wrap cables
- Insert cables into the CAT installation tool
- Feed the slit end of the wrap over the horn of the tool and "zip" the wires into a neat bundle
- Allows for breakout of the cables
- Provides abrasion protection

| Item No.     | Ø Max Bundle B |      | To Be Used With | Pack Qty |
|--------------|----------------|------|-----------------|----------|
|              | in             | mm   |                 |          |
| CAT-05-PP-BL | 0.240          | 6.0  | SHR-05          | 1        |
| CAT-08-PP    | 0.370          | 9.5  | SHR-08          | 1        |
| CAT-15-PP    | 0.630          | 16.0 | SHR-15          | 1        |
| CAT-20-PP    | 0.790          | 20.0 | SHR-20          | 1        |
| CAT-25-PP    | 0.960          | 24.5 | SHR-25          | 1        |
| CAT-32-PP    | 1.220          | 31.0 | SHR-32          | 1        |

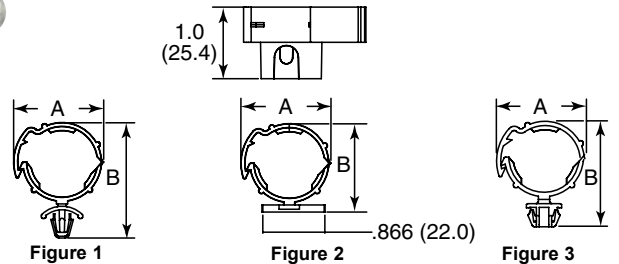
SHR-C Series  
SHR Clip

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

## Features:

- Adjustable clips to hold both the SHR-20 and SHR-25 slit harness wrap (see above)
- Internal ribs grip the wrap securely

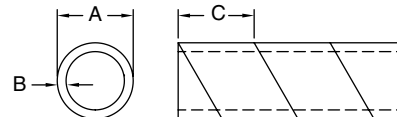


| Item No. | Ø Holding               | Mounting Method | Figure                                                                             | A Ref |      | B Ref |      | Bulk Pack Qty |
|----------|-------------------------|-----------------|------------------------------------------------------------------------------------|-------|------|-------|------|---------------|
|          |                         |                 |                                                                                    | In    | mm   | In    | mm   |               |
| SHR-C1   | To hold SHR-20 & SHR-25 | 1               | Snap into a 0.252 in. (6.4 mm) Hole in a 0.031-0.079 in. (0.8-2.0 mm) Panel        | 1.140 | 29.0 | 1.670 | 42.5 | 500           |
| SHR-C2   | To hold SHR-20 & SHR-25 | 2               | #8 or M4 Screw                                                                     | 1.180 | 30.0 | 1.280 | 32.5 | 500           |
| SHR-C3   | To hold SHR-20 & SHR-25 | 2               | Adhesive                                                                           | 1.180 | 30.0 | 1.280 | 32.5 | 500           |
| SHR-C4   | To hold SHR-20 & SHR-25 | 3               | Snap into a 0.370 in. (9.5 mm) Square Hole in a 0.031-0.079 in. (0.8-2.0 mm) Panel | 1.180 | 30.0 | 1.630 | 40.5 | 500           |

HR Series  
Spiral Wrap

## Specifications:

- Material: See Table
- Color: See Table



| Item No.      |              |          |          | Bundle Range  |             | A Ref. |      | B     |     | C Ref. |      | Roll Length |       | Pack Qty |
|---------------|--------------|----------|----------|---------------|-------------|--------|------|-------|-----|--------|------|-------------|-------|----------|
| UL94 HB Nylon | Polyethylene | LDPE     | Approval | In            | mm          | In     | mm   | In    | mm  | In     | mm   | ft          | m     |          |
| HR2N-1/8      | Natural      | Black    | UL       | 0.062 - 0.500 | 1.6 - 12.7  | 0.125  | 3.2  | 0.020 | 0.5 | 0.170  | 4.3  | 100         | 30.48 | 1        |
| HR3N-3/16     | —            | —        | UL       | 0.125 - 1.000 | 3.2 - 25.4  | 0.187  | 4.8  | 0.020 | 0.5 | 0.250  | 6.4  | 100         | 30.48 | 1        |
| HR4N-1/4      | —            | —        | UL       | 0.187 - 1.500 | 4.8 - 38.7  | 0.250  | 6.4  | 0.025 | 0.6 | 0.300  | 7.6  | 100         | 30.48 | 1        |
| HR6N-3/8      | —            | —        | UL       | 0.312 - 2.000 | 7.9 - 50.8  | 0.375  | 9.5  | 0.035 | 0.9 | 0.380  | 9.5  | 100         | 30.48 | 1        |
| HR8N-1/2      | —            | —        | UL       | 0.750 - 3.000 | 19.1 - 76.2 | 0.500  | 12.7 | 0.040 | 1.0 | 0.500  | 12.7 | 100         | 30.48 | 1        |
| —             | HR2P-1/8     | —        | UL       | 0.062 - 0.375 | 1.6 - 9.5   | 0.125  | 3.2  | 0.020 | 0.5 | 0.170  | 4.3  | 100         | 30.48 | 1        |
| —             | HR3P-3/16    | —        | UL       | 0.125 - 1.000 | 3.2 - 25.4  | 0.187  | 4.8  | 0.030 | 0.8 | 0.250  | 6.4  | 100         | 30.48 | 1        |
| —             | HR4P-1/4     | —        | UL       | 0.187 - 1.000 | 4.8 - 25.4  | 0.250  | 6.4  | 0.050 | 1.3 | 0.300  | 7.6  | 100         | 30.48 | 1        |
| —             | HR6P-3/8     | —        | UL       | 0.312 - 2.000 | 7.9 - 50.8  | 0.375  | 9.5  | 0.050 | 1.3 | 0.380  | 9.5  | 100         | 30.48 | 1        |
| —             | HR8P-1/2     | —        | UL       | 0.750 - 3.000 | 19.1 - 76.2 | 0.500  | 12.7 | 0.060 | 1.5 | 0.500  | 12.7 | 100         | 30.48 | 1        |
| —             | —            | HR4U-1/4 | UL       | 0.187 - 0.750 | 4.8 - 19.1  | 0.250  | 6.4  | 0.050 | 1.3 | 0.300  | 7.6  | 100         | 30.48 | 1        |
| —             | —            | HR6U-3/8 | UL       | 0.312 - 2.000 | 7.9 - 50.8  | 0.375  | 9.5  | 0.050 | 1.3 | 0.380  | 9.5  | 100         | 30.48 | 1        |
| —             | —            | HR8U-1/2 | UL       | 0.750 - 3.500 | 19.1 - 88.9 | 0.500  | 12.7 | 0.060 | 1.5 | 0.500  | 12.7 | 100         | 30.48 | 1        |



Polyester Expandable Braided Sleeving



Specifications:

- Material: Polyester
- Flammability: VW-1
- Color: Black

Features:

- The open weave construction allows for easy installation reducing assembly cost
- Cut and abrasion resistant with high thermal properties
- Used on wire harnessing applications where durability and low cost are essential
- Cuts cleanly with a hot knife



| Item No. | Nominal Size |    | Expansion Range |          |          |          | Roll Length |      | Pack Qty |
|----------|--------------|----|-----------------|----------|----------|----------|-------------|------|----------|
|          | in           | mm | Min (in)        | Max (in) | Min (mm) | Max (mm) | ft          | m    |          |
| 900303   | 1/8          | 3  | 0.039           | 0.236    | 1        | 6        | 200         | 60.9 | 1        |
| 900304   | 1/4          | 6  | 0.118           | 0.354    | 3        | 9        | 200         | 60.9 | 1        |
| 900305   | 5/16         | 8  | 0.197           | 0.630    | 5        | 16       | 100         | 30.5 | 1        |
| 900306   | 3/8          | 10 | 0.276           | 0.748    | 7        | 19       | 100         | 30.5 | 1        |
| 900307   | 1/2          | 12 | 0.315           | 0.945    | 8        | 24       | 100         | 30.5 | 1        |
| 900308   | 5/8          | 15 | 0.394           | 1.063    | 10       | 27       | 100         | 30.5 | 1        |
| 900309   | 3/4          | 20 | 0.551           | 1.181    | 14       | 30       | 50          | 15.2 | 1        |
| 900310   | 1            | 25 | 0.709           | 1.378    | 18       | 35       | 50          | 15.2 | 1        |
| 900311   | 1-1/4        | 30 | 0.787           | 1.969    | 20       | 50       | 50          | 15.2 | 1        |
| 900312   | 1-1/2        | 40 | 1.181           | 2.362    | 30       | 60       | 50          | 15.2 | 1        |
| 900313   | 1-3/4        | 45 | 1.378           | 2.953    | 35       | 75       | 50          | 15.2 | 1        |
| 900314   | 2            | 50 | 1.575           | 3.150    | 40       | 80       | 50          | 15.2 | 1        |
| 900315   | 2-1/2        | 64 | 1.772           | 4.134    | 45       | 105      | 50          | 15.2 | 1        |
| 900302   | 3            | 76 | 2.520           | 3.150    | 64       | 80       | 50          | 15.2 | 1        |

Nylon Expandable Sleeving



Specifications:

- Material: Nylon 6/6 Monofilament
- Flammability: UL94 V-2
- Color: Black

Features:

- Offers excellent abrasion resistance while maintaining a high degree of flexibility and durability
- Provides a smooth and slick surface that resists snags when dragged over a rough surface
- Cuts cleanly with a hot knife



| Item No. | Nominal Flat Width |    | Expanded Range |          |          |          | Roll Length |      | Pack Qty |
|----------|--------------------|----|----------------|----------|----------|----------|-------------|------|----------|
|          | in                 | mm | Min (in)       | Max (in) | Min (mm) | Max (mm) | ft          | m    |          |
| 900426   | 1/8                | 3  | 0.039          | 0.236    | 1        | 6        | 200         | 60.9 | 1        |
| 900427   | 1/4                | 6  | 0.118          | 0.354    | 3        | 9        | 200         | 60.9 | 1        |
| 900428   | 5/16               | 8  | 0.197          | 0.630    | 5        | 16       | 100         | 30.5 | 1        |
| 900429   | 3/8                | 10 | 0.276          | 0.748    | 7        | 19       | 100         | 30.5 | 1        |
| 900430   | 1/2                | 12 | 0.315          | 0.945    | 8        | 24       | 100         | 30.5 | 1        |
| 900431   | 5/8                | 16 | 0.394          | 1.063    | 10       | 27       | 100         | 30.5 | 1        |
| 900432   | 3/4                | 19 | 0.551          | 1.181    | 14       | 30       | 50          | 15.2 | 1        |
| 900433   | 1                  | 25 | 0.709          | 1.378    | 18       | 35       | 50          | 15.2 | 1        |
| 900434   | 1-1/4              | 32 | 0.787          | 1.969    | 20       | 50       | 50          | 15.2 | 1        |
| 900435   | 1-1/2              | 38 | 1.181          | 2.362    | 30       | 60       | 50          | 15.2 | 1        |
| 900436   | 1-3/4              | 45 | 1.378          | 2.953    | 35       | 75       | 50          | 15.2 | 1        |
| 900483   | 2                  | 50 | 1.575          | 3.150    | 40       | 80       | 50          | 15.2 | 1        |
| 900484   | 2-1/2              | 64 | 1.772          | 4.134    | 45       | 105      | 50          | 15.2 | 1        |
| 900485   | 3                  | 76 | 2.520          | 4.724    | 64       | 120      | 50          | 15.2 | 1        |

**BRAIDED SLEEVING****PPS UL94 V-0 Expandable Sleeve****Specifications:**

- Material: Polyphenylene Sulfide
- Flammability: UL94 V-0
- Color: Black

**Features:**

- Used on flame retardant and high temperature cable assemblies and wire harness applications
- Lightweight sleeve that has chemical resistance, low wear, dimensional stability, and low moisture stability
- Cuts cleanly with a hot knife

| Item No. | Nominal Flat Width |    | Expanded Range |          |          |          | Roll Length |      | Pack Qty |
|----------|--------------------|----|----------------|----------|----------|----------|-------------|------|----------|
|          | in                 | mm | Min (in)       | Max (in) | Min (mm) | Max (mm) | ft          | m    |          |
| 900437   | 1/8                | 3  | 0.039          | 0.236    | 1        | 6        | 200         | 60.9 | 1        |
| 900438   | 1/4                | 6  | 0.118          | 0.354    | 3        | 9        | 200         | 60.9 | 1        |
| 900439   | 5/16               | 8  | 0.197          | 0.630    | 5        | 16       | 100         | 30.5 | 1        |
| 900440   | 3/8                | 10 | 0.276          | 0.748    | 7        | 19       | 100         | 30.5 | 1        |
| 900441   | 1/2                | 12 | 0.315          | 0.945    | 8        | 24       | 100         | 30.5 | 1        |
| 900442   | 5/8                | 16 | 0.394          | 1.063    | 10       | 27       | 100         | 30.5 | 1        |
| 900443   | 3/4                | 19 | 0.551          | 1.181    | 14       | 30       | 50          | 15.2 | 1        |
| 900444   | 1                  | 25 | 0.709          | 1.378    | 18       | 35       | 50          | 15.2 | 1        |
| 900445   | 1-1/4              | 32 | 0.787          | 1.969    | 20       | 50       | 50          | 15.2 | 1        |
| 900446   | 1-1/2              | 38 | 1.181          | 2.362    | 30       | 60       | 50          | 15.2 | 1        |
| 900479   | 1-3/4              | 45 | 1.378          | 2.953    | 35       | 75       | 50          | 15.2 | 1        |
| 900449   | 2                  | 50 | 1.575          | 3.150    | 40       | 80       | 50          | 15.2 | 1        |
| 900450   | 2-1/2              | 64 | 1.772          | 4.134    | 45       | 105      | 50          | 15.2 | 1        |
| 900451   | 3                  | 76 | 2.520          | 4.724    | 64       | 120      | 50          | 15.2 | 1        |

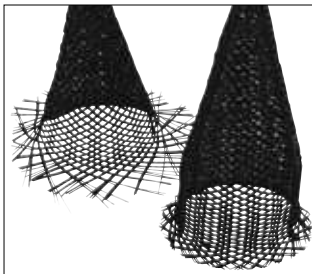
**PET Anti-Abrasion Sleeve****Specifications:**

- Material: Polyethylene Terephthalate
- Flammability: VW-1
- Color: Black

**Features:**

- Has 300% more abrasion resistance than the standard polyester expandable sleeve
- Exceptional mechanical properties
- Cuts cleanly with a hot knife

| Item No. | Nominal Flat Width |    | Expanded Range |          |          |          | Roll Length |      | Pack Qty |
|----------|--------------------|----|----------------|----------|----------|----------|-------------|------|----------|
|          | in                 | mm | Min (in)       | Max (in) | Min (mm) | Max (mm) | ft          | m    |          |
| 900461   | 1/8                | 3  | 0.039          | 0.236    | 1        | 6        | 200         | 60.9 | 1        |
| 900462   | 1/4                | 6  | 0.118          | 0.354    | 3        | 9        | 200         | 60.9 | 1        |
| 900463   | 5/16               | 8  | 0.197          | 0.630    | 5        | 16       | 100         | 30.5 | 1        |
| 900464   | 3/8                | 10 | 0.276          | 0.748    | 7        | 19       | 100         | 30.5 | 1        |
| 900465   | 1/2                | 12 | 0.315          | 0.945    | 8        | 24       | 100         | 30.5 | 1        |
| 900466   | 5/8                | 16 | 0.394          | 1.063    | 10       | 27       | 100         | 30.5 | 1        |
| 900467   | 3/4                | 19 | 0.551          | 1.181    | 14       | 30       | 50          | 15.2 | 1        |
| 900468   | 1                  | 25 | 0.709          | 1.378    | 18       | 35       | 50          | 15.2 | 1        |
| 900469   | 1-1/4              | 32 | 0.787          | 1.969    | 20       | 50       | 50          | 15.2 | 1        |
| 900470   | 1-1/2              | 38 | 1.181          | 2.362    | 30       | 60       | 50          | 15.2 | 1        |
| 900471   | 1-3/4              | 45 | 1.378          | 2.953    | 35       | 75       | 50          | 15.2 | 1        |
| 900472   | 2                  | 50 | 1.575          | 3.150    | 40       | 80       | 50          | 15.2 | 1        |
| 900473   | 2-1/2              | 64 | 1.772          | 4.134    | 45       | 105      | 50          | 15.2 | 1        |
| 900474   | 3                  | 76 | 2.520          | 4.724    | 64       | 120      | 50          | 15.2 | 1        |

**Scissor Cut Sleeve****Specifications:**

- Material: Polyester
- Flammability: VW-1
- Color: Black

**Features:**

- Can be cut with scissors and maintain a frayless end
- Perfect when used in the field where a hot knife is not available
- Excellent abrasion resistance

| Item No. | Approval | Nominal Size |    | Expansion Range |        |        |        | Roll Length |       | Pack Qty |
|----------|----------|--------------|----|-----------------|--------|--------|--------|-------------|-------|----------|
|          |          | in           | mm | Min in          | Min mm | Max in | Max mm | ft          | m     |          |
| 900289   | UL       | 1/8          | 3  | 0.039           | 1      | 0.197  | 5      | 200         | 60.98 | 1        |
| 900290   | UL       | 1/4          | 6  | 0.118           | 3      | 0.315  | 8      | 200         | 60.98 | 1        |
| 900291   | UL       | 5/16         | 8  | 0.197           | 5      | 0.394  | 10     | 100         | 30.49 | 1        |
| 900292   | UL       | 3/8          | 10 | 0.276           | 7      | 0.472  | 12     | 100         | 30.49 | 1        |
| 900293   | UL       | 1/2          | 12 | 0.315           | 8      | 0.551  | 14     | 100         | 30.49 | 1        |
| 900294   | UL       | 5/8          | 15 | 0.394           | 10     | 0.709  | 18     | 100         | 30.49 | 1        |
| 900295   | UL       | 3/4          | 20 | 0.551           | 14     | 0.906  | 23     | 50          | 15.24 | 1        |
| 900296   | UL       | 1            | 25 | 0.709           | 18     | 1.102  | 28     | 50          | 15.24 | 1        |
| 900297   | UL       | 1-1/4        | 30 | 0.787           | 20     | 1.378  | 35     | 50          | 15.24 | 1        |
| 900298   | UL       | 1-1/2        | 40 | 1.181           | 30     | 1.654  | 42     | 50          | 15.24 | 1        |
| 900299   | UL       | 1-3/4        | 45 | 1.378           | 35     | 1.890  | 48     | 50          | 15.24 | 1        |
| 900300   | UL       | 2            | 50 | 1.575           | 40     | 2.126  | 54     | 50          | 15.24 | 1        |
| 900301   | UL       | 2-1/2        | 64 | 1.772           | 45     | 2.756  | 70     | 50          | 15.24 | 1        |
| 900302   | UL       | 3            | 76 | 2.520           | 64     | 3.150  | 80     | 50          | 15.24 | 1        |



Thermal Protection Sleeve

Specifications:

- Material: Nomex™ Fiber
- Flammability: UL94 V-0
- Color: Natural

Features:

- Provides thermal protection and high abrasion resistance
- Soft feel and smooth appearance makes installation easy
- Cuts easily with standard scissors
- Operating Range: -320°F to 662°F (-196°C to 350°C)



| Item No. | Nominal Size |    | Expansion Range |       | Roll Length |       | Pack Qty |
|----------|--------------|----|-----------------|-------|-------------|-------|----------|
|          | in           | mm | in              | mm    | ft          | m     |          |
| 900365   | 0.118        | 3  | 0.039           | 0.157 | 100         | 30.48 | 1        |
| 900366   | 0.236        | 6  | 0.196           | 0.314 | 100         | 30.48 | 1        |
| 900367   | 0.314        | 8  | 0.236           | 0.393 | 100         | 30.48 | 1        |
| 900368   | 0.393        | 10 | 0.275           | 0.511 | 100         | 30.48 | 1        |
| 900369   | 0.472        | 12 | 0.314           | 0.629 | 100         | 30.48 | 1        |
| 900370   | 0.591        | 15 | 0.393           | 0.787 | 100         | 30.48 | 1        |
| 900371   | 0.787        | 20 | 0.551           | 1.023 | 100         | 30.48 | 1        |
| 900372   | 0.984        | 25 | 0.708           | 1.299 | 100         | 30.48 | 1        |
| 900373   | 1.181        | 30 | 0.787           | 1.535 | 100         | 30.48 | 1        |
| 900374   | 1.574        | 40 | 1.181           | 2.047 | 100         | 30.48 | 1        |
| 900375   | 1.968        | 50 | 1.574           | 2.559 | 100         | 30.48 | 1        |

Self Closing Wrap

Specifications:

- Material: Polyester Monofilament
- Flammability: DIN5510, VW-1
- Color: Black

Features:

- The self closing 25% overlap design allows easy access to the bundle inside
- Can be assembled over components after they have already been installed
- Excellent flame resistance, heat dispersion, and durable protection
- Installation tool to zip cables in available in most sizes
- Cuts cleanly with a hot knife



| Item No. | ID    |    | Ø Max Bundle |    | Installation Tool Part Number | Roll Length |      | Pack Qty |
|----------|-------|----|--------------|----|-------------------------------|-------------|------|----------|
|          | in    | mm | in           | mm |                               | ft          | m    |          |
| 900412   | 0.196 | 5  | 0.236        | 6  | 900475                        | 100         | 30.5 | 1        |
| 900413   | 0.314 | 8  | 0.354        | 9  | 900475                        | 100         | 30.5 | 1        |
| 900414   | 0.511 | 13 | 0.551        | 14 | 900476                        | 100         | 30.5 | 1        |
| 900415   | 0.748 | 19 | 0.787        | 20 | 900478                        | 100         | 30.5 | 1        |
| 900416   | 0.984 | 25 | 1.023        | 26 | 900478                        | 100         | 30.5 | 1        |
| 900417   | 1.496 | 38 | 1.574        | 40 | —                             | 100         | 30.5 | 1        |

Self Closing Braided Wrap

Specifications:

- Material: Polyester
- Flammability: UL94 V-2
- Color: Black

Features:

- The self closing 25% overlap design allows easy access to the bundle inside
- Can be assembled over components after they have already been installed
- Lightweight and abrasion resistant
- Installation tool to zip cables in available in most sizes
- Cuts cleanly with a hot knife



| Item No. | ID    |    | Ø Max Bundle |    | Installation Tool Part Number | Roll Length |      | Pack Qty |
|----------|-------|----|--------------|----|-------------------------------|-------------|------|----------|
|          | in    | mm | in           | mm |                               | ft          | m    |          |
| 900452   | 0.236 | 6  | 0.275        | 7  | 900475                        | 100         | 30.5 | 1        |
| 900453   | 0.354 | 9  | 0.393        | 10 | 900476                        | 100         | 30.5 | 1        |
| 900454   | 0.511 | 13 | 0.551        | 14 | 900476                        | 100         | 30.5 | 1        |
| 900455   | 0.629 | 16 | 0.669        | 17 | 900477                        | 100         | 30.5 | 1        |
| 900456   | 0.748 | 19 | 0.787        | 20 | 900478                        | 100         | 30.5 | 1        |
| 900457   | 0.984 | 25 | 1.023        | 26 | 900478                        | 100         | 30.5 | 1        |
| 900458   | 1.259 | 32 | 1.299        | 33 | —                             | 50          | 15.2 | 1        |
| 900459   | 1.496 | 38 | 1.574        | 40 | —                             | 50          | 15.2 | 1        |
| 900460   | 1.968 | 50 | 2.047        | 52 | —                             | 50          | 15.2 | 1        |



## HOSE OR CABLE WRAP SLEEVES

### Hook and Loop Braided Cable or Hose Wrap

**Specifications:**

- Material: Polyester and Nylon
- Flammability: VW-1
- Color: Black

**Features:**

- Easily opened and closed
- Can be easily installed over connectors, fittings, splices, cables and hoses
- Breakouts can be made by bringing cables out through hook and loop
- Open weave design easily conforms to many irregular shapes

| Item No. | Nominal Size |    | Max Bundle Dia. |    | Hook & Loop Width |    | Roll Length |    | Pack Qty |
|----------|--------------|----|-----------------|----|-------------------|----|-------------|----|----------|
|          | in           | mm | in              | mm | in                | mm | ft          | m  |          |
| 900360   | 0.512        | 13 | 0.315           | 8  | 0.394             | 10 | 164         | 50 | 1        |
| 900361   | 0.748        | 19 | 0.472           | 12 | 0.394             | 10 | 164         | 50 | 1        |
| 900362   | 1.260        | 32 | 0.787           | 20 | 0.787             | 20 | 164         | 50 | 1        |
| 900363   | 2.008        | 51 | 1.260           | 32 | 0.787             | 20 | 164         | 50 | 1        |
| 900364   | 2.520        | 64 | 1.575           | 40 | 0.787             | 20 | 164         | 50 | 1        |

### Quick Assemble Hook and Loop Cable or Hose Sleeve

**Specifications:**

- Material: Polyester with Hook and Loop
- Flammability: VW-1
- Color: Black

**Features:**

- Non-expanable sleeve is easily opened and closed
- Lightweight, high strength, excellent flame and abrasion resistance
- Can be easily installed over connectors, fittings, splices, cables and hoses
- Breakouts can be made by bringing cables out through hook and loop

| Item No. | ID    |    | Spread Width |     | Roll Length |    | Pack Qty |
|----------|-------|----|--------------|-----|-------------|----|----------|
|          | in    | mm | in           | mm  | ft          | m  |          |
| 900328   | 0.787 | 20 | 3.149        | 80  | 82          | 25 | 1        |
| 900329   | 0.984 | 25 | 3.740        | 95  | 82          | 25 | 1        |
| 900330   | 1.181 | 30 | 4.527        | 115 | 82          | 25 | 1        |
| 900331   | 1.377 | 35 | 5.118        | 130 | 82          | 25 | 1        |
| 900332   | 1.574 | 40 | 5.748        | 146 | 82          | 25 | 1        |
| 900333   | 1.771 | 45 | 6.377        | 162 | 82          | 25 | 1        |
| 900334   | 1.968 | 50 | 7.007        | 178 | 82          | 25 | 1        |

### Hose & Cable Protection Sleeve

**Specifications:**

- Material: Polyester
- Color: Black

**Features:**

- Most economical MSHA approved sleeve protection option
- Lightweight but high strength and abrasion resistant
- Protects people, environment and machinery against hydraulic hose ruptures

| Item No. | Flattened Width |     | Round ID |     | Roll Length |      | Pack Qty |
|----------|-----------------|-----|----------|-----|-------------|------|----------|
|          | in              | mm  | in       | mm  | ft          | m    |          |
| 900359   | 0.787           | 20  | 0.472    | 12  | 100         | 30.5 | 1        |
| 900344   | 0.984           | 25  | 0.591    | 15  | 100         | 30.5 | 1        |
| 900345   | 1.181           | 30  | 0.748    | 19  | 100         | 30.5 | 1        |
| 900346   | 1.378           | 35  | 0.866    | 22  | 100         | 30.5 | 1        |
| 900347   | 1.575           | 40  | 0.984    | 25  | 100         | 30.5 | 1        |
| 900348   | 1.772           | 45  | 1.102    | 28  | 100         | 30.5 | 1        |
| 900349   | 1.969           | 50  | 1.220    | 31  | 100         | 30.5 | 1        |
| 900350   | 2.362           | 60  | 1.496    | 38  | 100         | 30.5 | 1        |
| 900351   | 2.756           | 70  | 1.732    | 44  | 100         | 30.5 | 1        |
| 900352   | 3.150           | 80  | 1.969    | 50  | 100         | 30.5 | 1        |
| 900353   | 3.543           | 90  | 2.244    | 57  | 100         | 30.5 | 1        |
| 900354   | 3.937           | 100 | 2.362    | 60  | 100         | 30.5 | 1        |
| 900355   | 4.528           | 115 | 2.756    | 70  | 50          | 15.2 | 1        |
| 900356   | 5.709           | 145 | 3.543    | 90  | 50          | 15.2 | 1        |
| 900357   | 6.929           | 176 | 4.331    | 110 | 50          | 15.2 | 1        |
| 900358   | 7.874           | 200 | 4.921    | 125 | 50          | 15.2 | 1        |

HOSE OR CABLE WRAP SLEEVES



Heatshrink Braided Sleeve

Specifications:

- Material: Polyester and Polyolefin
- Color: Black
- Shrink Ratio: 2:1
- Minimum Shrink Temperature: 176° F (80° C)
- Minimum Full Recovery Temperature: 248° F (120° C)

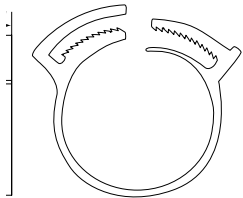
Features:

- Braided sleeving will shrink when exposed to a heat source
- Unique woven construction is extremely flexible and easy to install on hoses with irregular shapes
- Provides excellent abrasion resistance and noise reduction



| Item No. | Nominal Size |    | As Supplied ID |    | After Recovery ID |      | Roll Length |      | Pack Qty |
|----------|--------------|----|----------------|----|-------------------|------|-------------|------|----------|
|          | in           | mm | in             | mm | in                | mm   | ft          | m    |          |
| 900317   | 3/8          | 10 | 0.393          | 10 | 0.196             | 5.0  | 100         | 30.5 | 1        |
| 900318   | 1/2          | 12 | 0.472          | 12 | 0.236             | 6.0  | 100         | 30.5 | 1        |
| 900319   | 3/4          | 20 | 0.787          | 20 | 0.393             | 10.0 | 100         | 30.5 | 1        |
| 900320   | 1            | 25 | 0.984          | 25 | 0.492             | 12.5 | 100         | 30.5 | 1        |
| 900321   | 1-1/4        | 30 | 1.181          | 30 | 0.59              | 15.0 | 100         | 30.5 | 1        |
| 900322   | 1-3/8        | 34 | 1.338          | 34 | 0.669             | 17.0 | 100         | 30.5 | 1        |
| 900323   | 1-1/2        | 40 | 1.574          | 40 | 0.787             | 20.0 | 100         | 30.5 | 1        |
| 900324   | 2            | 50 | 1.968          | 50 | 0.984             | 25.0 | 100         | 30.5 | 1        |
| 900325   | 2-3/8        | 60 | 2.362          | 60 | 1.181             | 30.0 | 100         | 30.5 | 1        |
| 900326   | 2-3/4        | 70 | 2.755          | 70 | 1.377             | 35.0 | 100         | 30.5 | 1        |
| 900327   | 3-1/8        | 80 | 3.149          | 80 | 1.574             | 40.0 | 100         | 30.5 | 1        |

THC & SHC Series  
Quick Assemble Hose Clamps



Specifications:

- Material: THC Series - UL94V-2 Nylon 6/6  
SHC Series - UL94 HB Nylon 6/6
- Color: THC Series: Black  
SHC Series: White

Features:

- Quick and easy assembly or removal
- Adjustable locking range to fit various diameters
- Excellent for securing the ends of textile covers to the hose assembly

| Item No. | Bundle Range  |             | W     |     |
|----------|---------------|-------------|-------|-----|
|          | In            | mm          | In    | mm  |
| THC1A    | 0.260 - 0.315 | 6.6 - 8.0   | 0.197 | 5.0 |
| THC2A    | 0.315 - 0.362 | 8.0 - 9.2   | 0.197 | 5.0 |
| SHC-23   | 0.359 - 0.390 | 9.1 - 9.9   | 0.220 | 5.6 |
| THC3A    | 0.362 - 0.413 | 9.2 - 10.5  | 0.197 | 5.0 |
| SHC-26   | 0.390 - 0.468 | 9.9 - 11.9  | 0.220 | 5.6 |
| THC4A    | 0.413 - 0.472 | 10.5 - 12.0 | 0.236 | 6.0 |
| SHC-30   | 0.468 - 0.531 | 11.9 - 13.5 | 0.220 | 5.6 |
| THC6A    | 0.504 - 0.591 | 12.8 - 15.0 | 0.276 | 7.0 |
| SHC-32   | 0.531 - 0.593 | 13.5 - 15.1 | 0.220 | 5.6 |
| THC7A    | 0.591 - 0.677 | 15.0 - 17.2 | 0.276 | 7.0 |
| SHC-38   | 0.593 - 0.674 | 15.1 - 16.7 | 0.220 | 5.6 |
| THC8A    | 0.670 - 0.728 | 17.0 - 18.5 | 0.276 | 7.0 |
| SHC-44   | 0.687 - 0.812 | 17.5 - 20.6 | 0.220 | 5.6 |
| THC9A    | 0.717 - 0.807 | 18.2 - 20.5 | 0.276 | 7.0 |
| SHC-50   | 0.750 - 0.875 | 19.1 - 22.2 | 0.220 | 5.6 |
| THC10A   | 0.807 - 0.906 | 20.5 - 23.0 | 0.276 | 7.0 |
| THC11A   | 0.866 - 0.984 | 22.0 - 25.0 | 0.276 | 7.0 |
| SHC-56   | 0.875 - 1.000 | 22.2 - 25.4 | 0.220 | 5.6 |
| SHC-62   | 0.953 - 1.093 | 24.2 - 27.8 | 0.310 | 7.9 |
| THC12A   | 0.984 - 1.102 | 25.0 - 28.0 | 0.276 | 7.0 |

| Item No. | Bundle Range  |             | W     |      |
|----------|---------------|-------------|-------|------|
|          | In            | mm          | In    | mm   |
| THC13A   | 1.063 - 1.181 | 27.0 - 30.0 | 0.295 | 7.5  |
| SHC-68   | 1.093 - 1.187 | 26.2 - 30.2 | 0.310 | 7.9  |
| THC14A   | 1.161 - 1.280 | 29.5 - 32.5 | 0.295 | 7.5  |
| THC15A   | 1.280 - 1.398 | 32.5 - 35.5 | 0.315 | 8.00 |
| SHC-80   | 1.250 - 1.437 | 31.8 - 36.5 | 0.310 | 7.9  |
| THC16A   | 1.378 - 1.516 | 35.0 - 38.5 | 0.315 | 8.0  |
| SHC-92   | 1.406 - 1.625 | 35.7 - 41.3 | 0.360 | 9.1  |
| THC17A   | 1.496 - 1.634 | 38.0 - 41.5 | 0.315 | 8.0  |
| THC18A   | 1.614 - 1.752 | 41.0 - 44.5 | 0.315 | 8.0  |
| THC19A   | 1.732 - 1.870 | 44.0 - 47.5 | 0.315 | 8.0  |
| THC20A   | 1.850 - 1.988 | 47.0 - 50.5 | 0.315 | 8.0  |
| THC21A   | 1.969 - 2.106 | 50.0 - 53.5 | 0.315 | 8.0  |
| THC22A   | 2.087 - 2.244 | 53.0 - 57.0 | 0.315 | 8.0  |
| SHC-134  | 2.125 - 2.375 | 54.0 - 60.3 | 0.400 | 10.2 |
| THC23A   | 2.224 - 2.382 | 56.5 - 60.5 | 0.315 | 8.0  |
| THC24A   | 2.362 - 2.559 | 60.0 - 65.0 | 0.315 | 8.0  |
| THC25A   | 2.598 - 2.756 | 66.0 - 70.0 | 0.315 | 8.0  |
| THC26A   | 2.756 - 2.953 | 70.0 - 75.0 | 0.315 | 8.0  |
| THC27A   | 2.992 - 3.150 | 76.0 - 80.0 | 0.315 | 8.0  |
| THC28A   | 3.150 - 3.346 | 80.0 - 85.0 | 0.315 | 8.0  |



## HEAT SHRINK TUBING

### HST Series

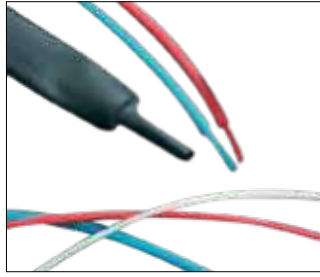
#### 2:1 Heat Shrink Tubing

##### Specifications:

- Material: Crosslinked Polyolefin
- Color: See Table
- Operating Temperature: -67°F to 257°F (-55°C to 125°C)
- Minimum Shrink Temperature: 158°F (70°C)
- Minimum Full Recovery Temperature: 212°F (100°C)
- Shrink Ratio: 2:1

##### Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Widely used in the communication, electronics and automotive fields
- Excellent electrical and physical properties
- Provided in standard roll lengths
- Flame retardant
- Highly flexible
- Comes in a variety of colors to color code wires, cables, terminals and components
- Provided in mini or standard roll lengths



| Item No. |        |        |        |           | As Supplied |       | After Recovery |       |                    |      | Roll Length |     | Pack Qty |
|----------|--------|--------|--------|-----------|-------------|-------|----------------|-------|--------------------|------|-------------|-----|----------|
|          |        |        |        |           | ID Min      |       | ID Max         |       | Wall Thickness Min |      |             |     |          |
| Black    | Red    | Blue   | White  | Size (in) | in          | mm    | in             | mm    | in                 | mm   | ft          | m   |          |
| 495686   | 495709 | 495755 | 495824 | 3/64      | 0.047       | 1.20  | 0.024          | 0.60  | 0.013              | 0.33 | 492         | 150 | 1        |
| 495687   | —      | 495756 | —      | 1/16      | 0.063       | 1.60  | 0.031          | 0.80  | 0.014              | 0.36 | 492         | 150 | 1        |
| 495688   | —      | 495757 | 495826 | 3/32      | 0.094       | 2.40  | 0.047          | 1.20  | 0.017              | 0.44 | 492         | 150 | 1        |
| 495689   | 495712 | 495758 | 495827 | 1/8       | 0.126       | 3.20  | 0.063          | 1.60  | 0.017              | 0.44 | 492         | 150 | 1        |
| 495690   | 495713 | 495759 | 495828 | 3/16      | 0.189       | 4.80  | 0.094          | 2.40  | 0.020              | 0.51 | 246         | 75  | 1        |
| 495691   | 495714 | 495760 | 495829 | 1/4       | 0.252       | 6.40  | 0.126          | 3.20  | 0.022              | 0.56 | 246         | 75  | 1        |
| 495692   | 495715 | 495761 | 495830 | 3/8       | 0.374       | 9.50  | 0.189          | 4.80  | 0.022              | 0.56 | 246         | 75  | 1        |
| 495693   | 495716 | 495762 | 495831 | 1/2       | 0.500       | 12.70 | 0.252          | 6.40  | 0.026              | 0.65 | 164         | 50  | 1        |
| 495694   | 495717 | —      | 495832 | 5/8       | 0.630       | 16.00 | 0.315          | 8.00  | 0.027              | 0.69 | 164         | 50  | 1        |
| 495695   | 495718 | 495764 | 495833 | 3/4       | 0.748       | 19.00 | 0.374          | 9.50  | 0.031              | 0.80 | 98.4        | 30  | 1        |
| HST022A  | —      | —      | —      | 15/16     | 0.913       | 23.20 | 0.433          | 11.00 | 0.030              | 0.80 | 164         | 50  | 1        |
| 495696   | 495719 | 495765 | 495834 | 1         | 1.000       | 25.40 | 0.500          | 12.70 | 0.035              | 0.90 | 98.4        | 30  | 1        |
| 495697   | 495720 | 495766 | 495835 | 1-1/4     | 1.260       | 32.00 | 0.630          | 16.00 | 0.040              | 1.02 | 98.4        | 30  | 1        |
| 495698   | 495721 | 495767 | —      | 1-1/2     | 1.500       | 38.10 | 0.748          | 19.00 | 0.040              | 1.02 | 98.4        | 30  | 1        |
| HST028A  | —      | —      | —      | 2-3/32    | 2.087       | 53.00 | 0.984          | 25.00 | 0.039              | 1.00 | 164         | 50  | 1        |

### HST CLEAR Series

#### 2:1 Clear Heat Shrink Tubing

##### Specifications:

- Material: Crosslinked Polyolefin
- Color: Clear (100% Transparent)
- Operating Temperature: -67° F to 221° F (-55° C to 105° C)
- Minimum Shrink Temperature: 158°F (70°C)
- Minimum Full Recovery Temperature: 203°F (95°C)
- Shrink Ratio: 2:1

##### Features:

- RoHS Compliant
- Used in the appliance, automotive and on consumer goods applications
- Commercial grade for general applications where flame-retardancy is not required
- Excellent electrical and physical properties
- Provided in standard roll lengths



| Item No. | Size (in) | As Supplied |      | After Recovery |      |                    |      | Roll Length |     | Pack Qty |
|----------|-----------|-------------|------|----------------|------|--------------------|------|-------------|-----|----------|
|          |           | ID Min      |      | ID Max         |      | Wall Thickness Min |      |             |     |          |
|          |           | in          | mm   | in             | mm   | in                 | mm   | ft          | m   |          |
| 495883   | 3/64      | 0.047       | 1.20 | 0.024          | 0.60 | 0.013              | 0.33 | 492         | 150 | 1        |
| 495884   | 1/16      | 0.063       | 1.60 | 0.031          | 0.80 | 0.014              | 0.36 | 492         | 150 | 1        |
| 495885   | 3/32      | 0.094       | 2.40 | 0.047          | 1.20 | 0.017              | 0.44 | 492         | 150 | 1        |
| 495886   | 1/8       | 0.126       | 3.20 | 0.063          | 1.60 | 0.017              | 0.44 | 492         | 150 | 1        |
| 495887   | 3/16      | 0.189       | 4.80 | 0.094          | 2.40 | 0.022              | 0.56 | 246         | 75  | 1        |
| 495888   | 1/4       | 0.252       | 6.40 | 0.126          | 3.20 | 0.022              | 0.56 | 246         | 75  | 1        |
| 495889   | 3/8       | 0.374       | 9.50 | 0.189          | 4.80 | 0.022              | 0.56 | 246         | 75  | 1        |
| 495890   | 1/2       | 0.500       | 12.7 | 0.252          | 6.40 | 0.026              | 0.65 | 164         | 50  | 1        |
| 495891   | 5/8       | 0.630       | 16.0 | 0.315          | 8.00 | 0.027              | 0.69 | 164         | 50  | 1        |
| 495892   | 3/4       | 0.748       | 19.0 | 0.374          | 9.50 | 0.031              | 0.80 | 98.4        | 30  | 1        |
| 495893   | 1         | 1.000       | 25.4 | 0.500          | 12.7 | 0.035              | 0.90 | 98.4        | 30  | 1        |
| 495894   | 1-1/4     | 1.260       | 32.0 | 0.630          | 16.0 | 0.039              | 1.00 | 98.4        | 30  | 1        |
| 495895   | 1-1/2     | 1.500       | 38.1 | 0.748          | 19.0 | 0.039              | 1.00 | 98.4        | 30  | 1        |

## HEAT SHRINK TUBING

**HST YG Series****2:1 Yellow & Green Striped Heat Shrink Tubing**

## Specifications:

- Material: Crosslinked Polyolefin
- Color: Yellow and Green Striped
- Operating Temperature: -67° F to 275° F (-55° C to 135° C)
- Minimum Shrink Temperature: 158° F (70° C)
- Minimum Full Recovery Temperature: 212° F (100° C)

## Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Outstanding physical, chemical and electrical properties
- Easy to install and makes identifying ground conductors easier
- Highly flame retardant and UV resistant



| Item No. | Size (in) | As Supplied |      | After Recovery |      |                    |      | Roll Length |     | Pack Qty |
|----------|-----------|-------------|------|----------------|------|--------------------|------|-------------|-----|----------|
|          |           | ID Min      |      | ID Max         |      | Wall Thickness Min |      |             |     |          |
|          |           | in          | mm   | in             | mm   | in                 | mm   | ft          | m   |          |
| 495896   | 1/16      | 0.063       | 1.60 | 0.031          | 0.80 | 0.020              | 0.51 | 492         | 150 | 1        |
| 495898   | 1/8       | 0.126       | 3.20 | 0.063          | 1.60 | 0.022              | 0.55 | 492         | 150 | 1        |
| 495900   | 1/4       | 0.252       | 6.40 | 0.126          | 3.20 | 0.026              | 0.65 | 246         | 75  | 1        |
| 495901   | 3/8       | 0.374       | 9.50 | 0.189          | 4.80 | 0.030              | 0.75 | 246         | 75  | 1        |
| 495902   | 1/2       | 0.500       | 12.7 | 0.252          | 6.40 | 0.030              | 0.75 | 164         | 50  | 1        |
| 495903   | 3/4       | 0.748       | 19.0 | 0.374          | 9.50 | 0.033              | 0.85 | 98.4        | 30  | 1        |
| 495904   | 1         | 1.000       | 25.4 | 0.500          | 12.7 | 0.039              | 1.00 | 98.4        | 30  | 1        |
| 495905   | 1-1/2     | 1.500       | 38.1 | 0.748          | 19.0 | 0.045              | 1.15 | 98.4        | 30  | 1        |

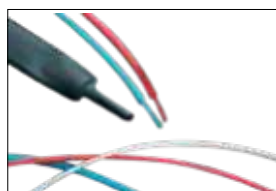
**HST 3:1 Series****3:1 Heat Shrink Tubing**

## Specifications:

- Material: Crosslinked Polyolefin
- Color: See Table
- Operating Temperature: -67° F to 257° F (-55° C to 125° C)
- Minimum Shrink Temperature: 158° F (70° C)
- Minimum Full Recovery Temperature: 212° F (100° C)

## Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Widely used for electrical insulation
- Flame retardant and highly flexible
- Protects in line components, disconnect terminals and splices
- Variety of colors to code wires, cables, terminals and components



| Item No. |        |        |        | Size  | As Supplied |      | After Recovery |      |                    |      | Roll Length |     | Pack Qty/1 |
|----------|--------|--------|--------|-------|-------------|------|----------------|------|--------------------|------|-------------|-----|------------|
|          |        |        |        |       | ID Min      |      | ID Max         |      | Wall Thickness Min |      |             |     |            |
| Black    | Red    | Blue   | White  | in    | in          | mm   | in             | mm   | in                 | mm   | ft          | m   |            |
| 495906   | —      | —      | —      | 1/16  | 0.059       | 1.50 | 0.020          | 0.50 | 0.018              | 0.45 | 492         | 150 | 1          |
| 495907   | 495916 | 495934 | 495961 | 1/8   | 0.118       | 3.00 | 0.039          | 1.00 | 0.022              | 0.55 | 492         | 150 | 1          |
| 495908   | 495917 | 495935 | —      | 3/16  | 0.177       | 4.50 | 0.059          | 1.50 | 0.024              | 0.60 | 246         | 75  | 1          |
| 495909   | 495918 | 495936 | 495963 | 1/4   | 0.236       | 6.00 | 0.079          | 2.00 | 0.026              | 0.65 | 246         | 75  | 1          |
| 495910   | 495919 | 495937 | 495964 | 3/8   | 0.354       | 9.00 | 0.118          | 3.00 | 0.030              | 0.75 | 246         | 75  | 1          |
| 495911   | 495920 | 495938 | 495965 | 1/2   | 0.472       | 12.0 | 0.157          | 4.00 | 0.031              | 0.80 | 164         | 50  | 1          |
| 495912   | —      | 495939 | 495966 | 3/4   | 0.709       | 18.0 | 0.236          | 6.00 | 0.035              | 0.90 | 98.4        | 30  | 1          |
| 495913   | 495922 | 495940 | —      | 1     | 0.945       | 24.0 | 0.315          | 8.00 | 0.043              | 1.10 | 98.4        | 30  | 1          |
| 495914   | 495923 | 495941 | —      | 1-1/2 | 1.535       | 39.0 | 0.512          | 13.0 | 0.049              | 1.25 | 98.4        | 30  | 1          |

**HST ADHESIVE Series****3:1 Adhesive Lined Heat Shrink Tubing**

## Specifications:

- Material: Crosslinked Adhesive Lined Polyolefin
- Color: See Table
- Operating Temperature: -67° F to 257° F (-55° C to 125° C)
- Minimum Shrink Temperature: 176° F (80° C)
- Minimum Full Recovery Temperature: 230° F (110° C)
- Shrink Ratio: 3:1

## Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- UV Resistant and flame retardant (with the exception of clear)
- Provides insulation and sealing on applications like wire splices and harnesses
- Comes in a variety of colors to code wires, cables, terminals and components
- Provided in standard roll lengths and pre-cut length in packs

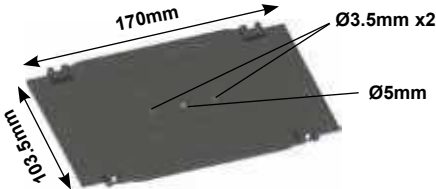


|        |        |        |        |        | Size  | As Supplied |       | After Recovery |      |                    |      | Roll Length |     | Pack Qty |
|--------|--------|--------|--------|--------|-------|-------------|-------|----------------|------|--------------------|------|-------------|-----|----------|
|        |        |        |        |        |       | ID Min      |       | ID Max         |      | Wall Thickness Min |      |             |     |          |
| Black  | Clear  | Red    | Blue   | White  | in    | in          | mm    | in             | mm   | in                 | mm   | ft          | m   |          |
| 495987 | 496011 | 496003 | —      | 496083 | 1/8   | 0.118       | 3.00  | 0.039          | 1.00 | 0.039              | 1.00 | 492         | 150 | 1        |
| 495988 | —      | 496004 | 496036 | 496084 | 3/16  | 0.189       | 4.80  | 0.059          | 1.50 | 0.039              | 1.00 | 246         | 75  | 1        |
| 495989 | 496013 | 496005 | 496037 | 496085 | 1/4   | 0.236       | 6.00  | 0.079          | 2.00 | 0.039              | 1.00 | 246         | 75  | 1        |
| 495990 | 496014 | 496006 | 496038 | 496086 | 3/8   | 0.354       | 9.00  | 0.118          | 3.00 | 0.055              | 1.40 | 164         | 50  | 1        |
| 495991 | 496015 | 496007 | 496039 | 496087 | 1/2   | 0.472       | 12.00 | 0.157          | 4.00 | 0.063              | 1.60 | 98.4        | 30  | 1        |
| 495992 | 496016 | 496008 | —      | 496088 | 3/4   | 0.748       | 19.00 | 0.236          | 6.00 | 0.085              | 2.15 | 98.4        | 30  | 1        |
| 495993 | 496017 | 496009 | —      | 496089 | 1     | 0.945       | 24.00 | 0.315          | 8.00 | 0.094              | 2.40 | 98.4        | 30  | 1        |
| 495994 | 496018 | 496010 | —      | —      | 1-1/2 | 1.575       | 40.00 | 0.512          | 13.0 | 0.094              | 2.40 | 98.4        | 30  | 1        |



FIBER SPLICE ACCESSORIES

OFST Series  
Fiber Splice Tray System



OFST-1-L Splice Tray Lid



OFST-1-P  
Splice Tray with Basic Storage  
Facility



OFST-1-M  
Splice Tray with Radius Control  
and Fiber Storage Elements

Specifications:

- Color: See Table

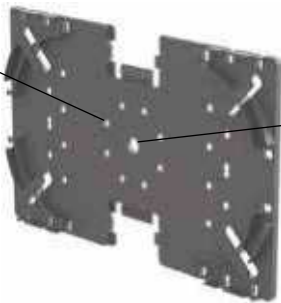
Features:

- Lid, trays, and hinges are sold separately or in a kit: OFST-A-P-1
- Stackable to any number of trays
- Inter-tray fiber routing possible through slots along one of the long sides of the tray
- Color coded hinges indicate side of tray to open from. Part numbers are OFSTH-1-RED and OFSTH-1-GRN.
- Can be used with OFSH splice holders, OFSP splice protectors and OFBLT bend limiting tubing
- Three mounting holes go through the lid and trays

| Item No.    | Color | Description                                                  | Bulk Pack Qty |
|-------------|-------|--------------------------------------------------------------|---------------|
| OFST-1-L    | Black | Splice Tray Lid                                              | 10            |
| OFST-1-M    | Black | Splice Tray Managed with Radius Control & Dark Fiber Storage | 10            |
| OFST-1-P    | Black | Splice Tray Plain with Basic Storage Facility                | 10            |
| OFST-A-P-1  | Black | 1 x OFST-1-L, 1 x OFST-1-P, 2 x OFSTH-1-RED, 2 x OFSTH-1-GRN | 10            |
| OFSTH-1-GRN | Green | OF Splice Tray Hinge                                         | 20            |
| OFSTH-1-RED | Red   | OF Splice Tray Hinge                                         | 20            |

EFA04-25-001 Series  
Splice Tray

All Periphery Holes: Ø2.8mm



Center Hole  
Ø6 mm

Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

Features:

- Molded-in features maintain bend radius at 30mm
- Accepts Fiber Clips EFA04-61, 63 and 64-001
- Accepts 16-way Fiber Clip EFA04-06 and 08-001 broken into a 4-way segment for holding splicing components

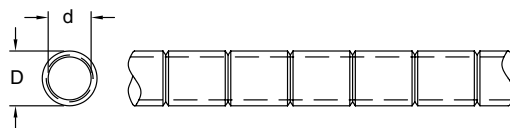
| Item No.     | L x W         |              | Thickness |     | Bulk Pack Qty |
|--------------|---------------|--------------|-----------|-----|---------------|
|              | in            | mm           | in        | mm  |               |
| EFA04-25-001 | 5.197 x 3.228 | 132.0 x 82.0 | 0.260     | 6.6 | 50            |

## FIBER BEND LIMITING TUBING



## OFBLT Series

## Optical Fiber Bend Limiting Tubing



## Specifications:

- Material: See Table
- Color: See Table

## Features:

- Optical Fiber Bend-Limiting Tubing offers the ultimate protection to fibers, eliminating problems such as crushing, kinking, and micro-bending, while supplying a self-managing solution for routing of fiber
- Provides superior crush protection against micro fiber bends over conventional corrugated tubing
- Limits the bend in a fiber by controlling radius to a minimum of 30mm
- Has a smooth inner bore for ease of use and elimination of micro-bending
- Suitable for blown fiber applications over short distance and for curbside FTTH/FTTB applications

| Item No.            |                    | Style     | D     |      | d     |     | Bulk Pack Qty | Pack Qty |
|---------------------|--------------------|-----------|-------|------|-------|-----|---------------|----------|
| White Polypropylene | Black UL94 V-0 PBT |           | in    | mm   | in    | mm  |               |          |
| OFBLT-3.1-05-PP     | OFBLT-31-05V0      | Standard  | 0.195 | 4.95 | 0.122 | 3.1 | 100 Meters    | 1        |
| OFBLT-42-635PP      | OFBLT-42-635V0     | Standard  | 0.250 | 6.35 | 0.165 | 4.1 | 100 Meters    | 1        |
| OFBLTP-42-635PP     | OFBLTP-42-635V0    | Pull-Cord | 0.250 | 6.35 | 0.165 | 4.1 | 100 Meters    | 1        |

## OFBLT-C Series

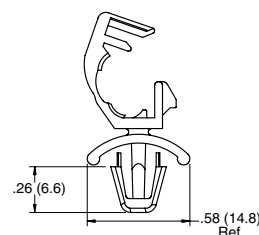
## OFBLT Tubing Clip

## Specifications:

- Material: See Table
- Color: Natural

## Features:

- Holds the 5mm OFBLT tube (see above) or up to a 4.3mm rod
- Clamp is releasable for repairs



| Item No.           |                    | Ø Max Bundle |     | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|--------------------|--------------------|--------------|-----|-----------------|-----|-----------------|-----------|---------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | in           | mm  | in              | mm  | in              | mm        |               |
| OFBLT-C1-5-01      | OFBLT-C1-5-19      | 0.17         | 4.3 | 0.25            | 6.4 | 0.031 - 0.078   | 0.8 - 2.0 | 1000          |

## TPCE Series

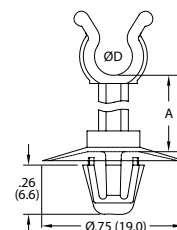
## Tube Clip

## Specifications:

- Material: See Table
- Color: Natural

## Features:

- Holds a 5mm diameter tube or pipe
- Excellent for above board routing requirements
- Cupped base provides stability and covers the entire hole



| Item No.           |                    | A     |      | Ø D Max Bundle |     | Ø Mounting Hole |     | Panel Thickness |           | Bulk Pack Qty |
|--------------------|--------------------|-------|------|----------------|-----|-----------------|-----|-----------------|-----------|---------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | in    | mm   | in             | mm  | in              | mm  | in              | mm        |               |
| TPCE5-51-4M-01     | TPCE5-51-4M-19     | 0.157 | 4.0  | 0.200          | 5.1 | 0.256           | 6.5 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| TPCE5-51-6M-01     | TPCE5-51-6M-19     | 0.236 | 6.0  | 0.200          | 5.1 | 0.256           | 6.5 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| TPCE5-51-8M-01     | TPCE5-51-8M-19     | 0.315 | 8.0  | 0.200          | 5.1 | 0.256           | 6.5 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |
| TPCE5-51-10M-01    | TPCE5-51-10M-19    | 0.394 | 10.0 | 0.200          | 5.1 | 0.256           | 6.5 | 0.031 - 0.063   | 0.8 - 1.6 | 1000          |

## OFTGSP Series

## OFBLT Tubing Saddle

## Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

## Features:

- Holds the 5mm OFBLT (see above)
- The saddle is placed over the tubing and closed down to engage on the external grooves of the tube
- Secure attachment is completed by pressing the retaining feet through the location holes
- OFTGSP-2 has two sets of mounting prongs requiring two holes

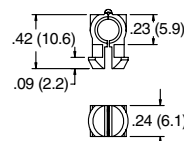


Figure 1



Recommended Mounting Hole

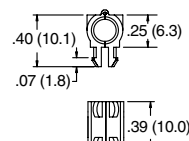


Figure 2



Recommended Mounting Holes

| Item No.       | Figure | Ø Mounting Hole |     | Panel Thickness |     | Bulk Pack Qty |
|----------------|--------|-----------------|-----|-----------------|-----|---------------|
|                |        | in              | mm  | in              | mm  |               |
| OFTGSP-1-05-19 | 1      | 0.250           | 6.4 | 0.095           | 2.4 | 100           |
| OFTGSP-2-05-19 | 2      | 0.197           | 5.0 | 0.071           | 1.8 | 100           |



## FIBER BEND LIMITING TUBING &amp; SPLICE HOLDERS

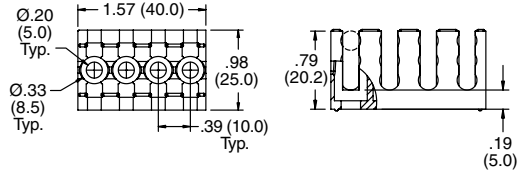
**OFSMB - OFBLT Series**  
**Slotted Multi Bracket**

## Specifications:

- Material: UL94 V-0 Glass-Filled Nylon
- Color: Black

## Features:

- For use with 5mm OFBLT Tubing
- Mounts with #10 (M5) screws
- Optical Fiber Slotted Multi-Brackets are for use at distribution points where orderly fiber management, protection and strain relief is required
- An additional security feature allows fitting of a cable tie around OFSMBs which prevents removal of any retained tubes
- OFBLT retention: >70N
- Holds a maximum of 12 tubes



| Item No.       | Bulk Pack Qty |
|----------------|---------------|
| OFSMB-4-05GFBK | 10            |

**OFSH-T Series**  
**Splice Holder**

## Specifications:

- Material: See Table
- Color: Black

## Features:

- OFSH-T-6 holds up to 6 x 3mm fiber or components
- OFSH-T-12 holds up to 12 crimp splice protectors
- Splice Holders can be used with OFST Series Splice Trays

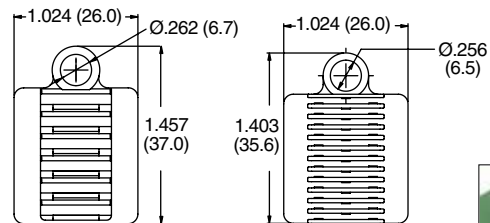


Figure 1

Figure 2



| Item No.        | Figure | Material               | Ø Component   |           | No. of Slots | Bulk Pack Qty |
|-----------------|--------|------------------------|---------------|-----------|--------------|---------------|
|                 |        |                        | in            | mm        |              |               |
| OFSH-T-6-GFBLK  | 1      | Glass-Filled Nylon 6/6 | 0.118         | 3.0       | 6            | 100           |
| OFSH-T-12-01BLK | 2      | Nylon 6/6              | 0.039 - 0.047 | 1.0 - 1.2 | 6            | 100           |
| OFSH-T-12-19BLK | 2      | Nylon 6/6              | 0.039 - 0.047 | 1.0 - 1.2 | 12           | 100           |

**OFSH2 Series**  
**Splice Holder**

## Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

## Features:

- Holds up to 24 components/splice protectors
- Flexible wings grip components up to .06 (1.6) in diameter
- Low profile to save space
- Two styles: one for mounting with an adhesive pad and one for mounting with a #4 or M3 screw
- Each slot holds up to two components

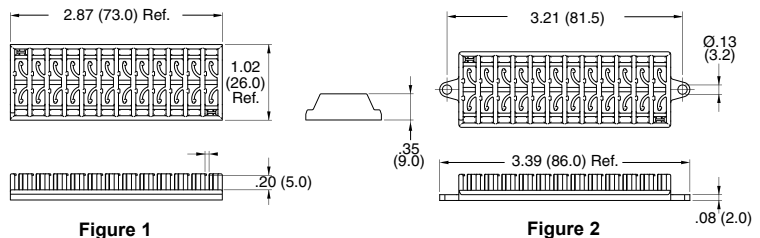


Figure 1

Figure 2

| Item No.   | Mounting Method | Ø Component |           | Figure | Bulk Pack Qty |
|------------|-----------------|-------------|-----------|--------|---------------|
|            |                 | In          | mm        |        |               |
| OFSH2-24-1 | Adhesive        | Up to 0.060 | Up to 1.6 | 1      | 50            |
| OFSH2-24-2 | No Adhesive     | Up to 0.060 | Up to 1.6 | 1      | 50            |
| OFSH2-24-3 | #4 or M3 Screws | Up to 0.060 | Up to 1.6 | 2      | 50            |

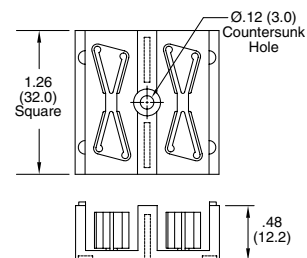
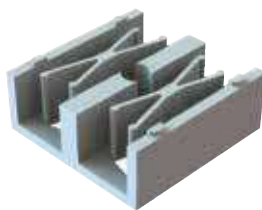
**OFSH-4 Series**  
**Splice Holder**

## Specifications:

- Material: See Table
- Color: Natural

## Features:

- Holds 12 2.7mm splices or four 4.2mm splices
- Fastens with either an adhesive pad provided, or with a #4 screw or rivet
- Stackable



| Item No.           |                    | Ø Component | No. of Positions | Bulk Pack Qty |
|--------------------|--------------------|-------------|------------------|---------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | mm          |                  |               |
| OFSH-4-1-01LA      | OFSH-4-1-19LA      | 2.7         | 12               | 50            |
| OFSH-4-1-01LA      | OFSH-4-1-19LA      | 4.2         | 4                | 50            |



OFEB/OFHB Series  
Fiber Holder



- Specifications:
- Material: UL94 V-0 Nylon 6/6
  - Color: Natural

- Features:
- Quickly mounted with adhesive base
  - OFEB has side brackets that connect with each other to provide for additional cables

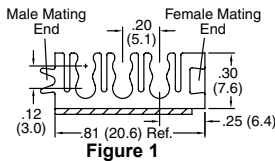


Figure 1

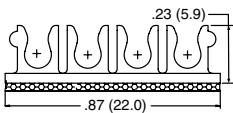


Figure 2

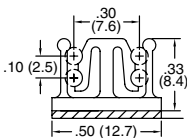


Figure 3

| Item No.        | Figure | Cable Ø |     | No. of Slots | No. of Cables | Depth |     | Bulk Pack Qty |
|-----------------|--------|---------|-----|--------------|---------------|-------|-----|---------------|
|                 |        | in      | mm  |              |               | in    | mm  |               |
| OFEB-3-19       | 1      | 0.118   | 3.0 | 3            | 6             | 0.300 | 7.6 | 1000          |
| OFHB3-4-19A-RT  | 2      | 0.118   | 3.0 | 4            | 4             | 0.375 | 9.5 | 1000          |
| OFHB2-4A1-RT-19 | 3      | 0.079   | 2.0 | 2            | 4             | 0.375 | 9.5 | 1000          |

OFB-BH/OFB3P Series  
Fiber Holder

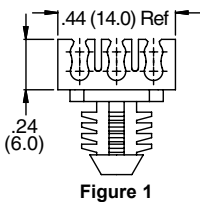


Figure 1

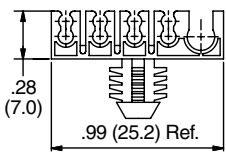


Figure 2

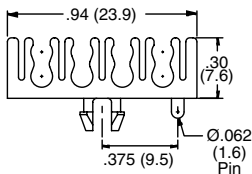


Figure 3

- Specifications:
- Material: UL94 V-0 Nylon 6/6
  - Color: Natural

- Features:
- Holds multiple cable fibers



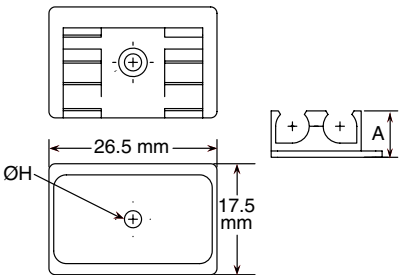
Recommended Mounting Holes

| Item No.    | Figure | Ø Hole |     | Panel Thickness |     | Ø Cable              |                  | No. of Slots | No. of Cables | Depth |     | Bulk Pack Qty |
|-------------|--------|--------|-----|-----------------|-----|----------------------|------------------|--------------|---------------|-------|-----|---------------|
|             |        | in     | mm  | in              | mm  | in                   | mm               |              |               | in    | mm  |               |
| OFB-BH-6-19 | 1      | 0.312  | 7.9 | 0.250           | 6.4 | 0.079                | 2.0              | 3            | 6             | 0.197 | 5.0 | 1000          |
| OFB-BH-9-19 | 2      | 0.312  | 7.9 | 0.250           | 6.4 | 8 x 0.086, 1 x 0.158 | 8 x 2.2, 1 x 4.0 | 5            | 9             | 0.236 | 6.0 | 1000          |
| OFB3P-4-19  | 3      | 0.187  | 4.7 | 0.064           | 1.6 | 0.118                | 3.0              | 4            | 8             | 0.200 | 5.1 | 1000          |

EFA04-6X Series  
Fiber Clip

- Specifications:
- Material: UL94 V-0 Nylon 6
  - Color: See Table

- Features:
- Holds two components parallel
  - Available to hold three different diameters; 4.5mm, 5.5mm, 6mm
  - Designed for use in the Splice Tray EFA04-25-001
  - Can be mounted by screw, rivet, or with adhesive pad
  - EFA04-61-001 has anti-rotation pins to securely mount with screw or rivet

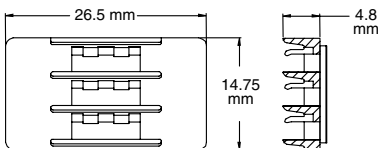
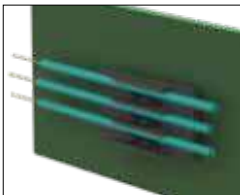


| Item No.     |                     | Color  | Ø Cable |     | No. of Slots | A     |      | Ø H   |     | Recommended Mounting Screw | Bulk Pack Qty |
|--------------|---------------------|--------|---------|-----|--------------|-------|------|-------|-----|----------------------------|---------------|
| Clip Only    | Clip & Adhesive Pad |        | in      | mm  |              | in    | mm   | in    | mm  |                            |               |
| EFA04-61-001 | EFA04-61-ASS        | Red    | 0.236   | 6.0 | 2            | 0.315 | 8.0  | 0.126 | 3.2 | #4, #5 or M3               | 100           |
| EFA04-63-001 | EFA04-63-ASS        | Green  | 0.216   | 5.5 | 2            | 0.289 | 7.33 | 0.106 | 2.7 | #3 or M2.5                 | 100           |
| EFA04-64-001 | EFA04-64-ASS        | Yellow | 0.177   | 4.5 | 2            | 0.289 | 7.33 | 0.106 | 2.7 | #3 or M2.5                 | 100           |

EFA04-02 Series  
Fiber Clip

- Specifications:
- Material: UL94 V-0 Nylon 6
  - Color: Black

- Features:
- Holds three 3mm diameter components
  - Adhesive pad for easy application



| Item No.     | Ø Cable |     | No. of Slots | Contents               | Bulk Pack Qty |
|--------------|---------|-----|--------------|------------------------|---------------|
|              | in      | mm  |              |                        |               |
| EFA04-02-ASS | 0.118   | 3.0 | 3            | Clip with Adhesive Pad | 100           |



FIBER CLIPS & GUIDES

EFA04 Series  
Fiber Clip

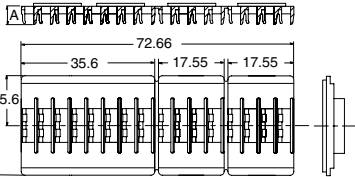
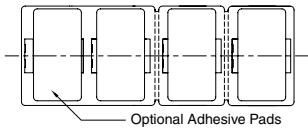
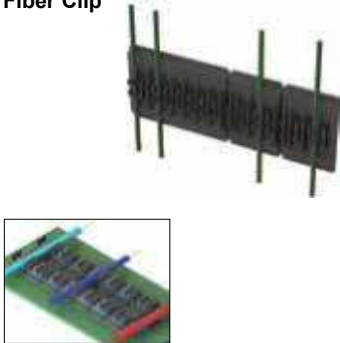


Figure 1

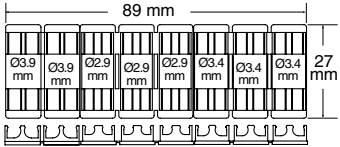


Figure 2

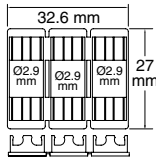


Figure 3

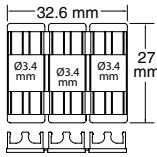


Figure 4

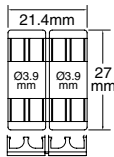


Figure 5

Specifications:

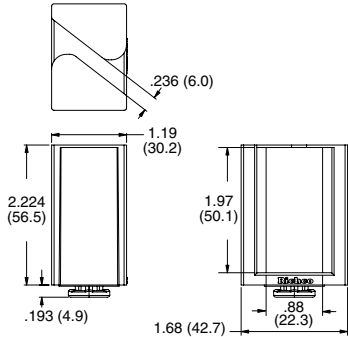
- Material: UL94 V-0 Nylon 6
- Color: See Table

Features:

- EFA04-06, EFA04-08, and EFA04-18 can be broken apart to form individual clips
- Various mounting options are available

| Item No.     |                           | Ø Cable |       | No. of Slots | Bulk Pack Qty. |
|--------------|---------------------------|---------|-------|--------------|----------------|
| Clip Only    | Clip with Adhesive Pad(s) | Figure  | Color |              |                |
| EFA04-06-001 | EFA04-06-ASS              | 1       | Black | 16           | 100            |
| —            | EFA04-08-ASS              | 1       | Blue  | 16           | 100            |
| —            | EFA04-18-ASS              | 2       | Black | 4, 6, 6 = 16 | 100            |
| EFA04-71-001 | EFA04-71-P01              | 3       | Black | 6            | 100            |
| EFA04-71-002 | —                         | 4       | Black | 6            | 100            |
| EFA04-71-003 | EFA04-71-P03              | 5       | Black | 4            | 100            |

OFRB Series  
Fiber Rack Bracket



Specifications:

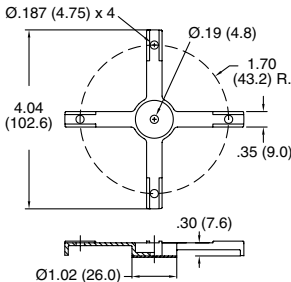
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- Mounts into a standard 19" rack with a quarter turn
- Removable with a quarter turn
- No stress is applied to the fiber upon entry

| Item No. | Square Mounting Hole |             | Panel Thickness |           | Bulk Pack Qty. |
|----------|----------------------|-------------|-----------------|-----------|----------------|
|          | in                   | mm          | in              | mm        |                |
| OFRB-1BK | 0.465 x 0.465        | 11.8 x 11.8 | 0.063 - 0.079   | 1.6 - 2.0 | 100            |
| OFRB-2BK | 0.374 x 0.374        | 9.5 x 9.5   | 0.063 - 0.079   | 1.6 - 2.0 | 100            |

OFBSB Series  
Fiber Support Base



Specifications:

- Material: See Table
- Color: Natural

Features:

- Constructs a path for spooling fiber optic cables
- Designed for use in fiber optic patch panel applications
- Center hole is for mounting the base with a #8 screw or SR-5XXX rivet found on page 121
- Any Essentra wire routing device that is designed to snap into a 0.187" hole and a 0.062" panel can be mounted to this base; popular options are OFNS, STL, WS and LWS series

| Item No.           |                    | Mounting Method           | Bulk Pack Qty. |
|--------------------|--------------------|---------------------------|----------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 |                           |                |
| OFBSB-4-85-01A     | OFBSB-4-85-19A     | Adhesive                  | 100            |
| OFBSB-4-85-01      | OFBSB-4-85-19      | #8 Screw or SR-5XXX Rivet | 100            |

## FIBER CLIPS &amp; GUIDES



### OFCC/OFCG Series Fiber Coiling Clip



Figure 1



Figure 2

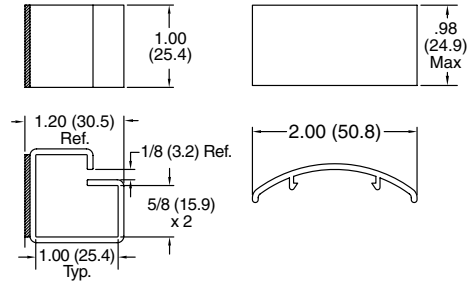


Figure 1

Figure 2



#### Specifications:

- Material: UL94 V-0 PVC
- Color: Black

#### Features:

- OFCG snaps onto OFCC to form a clip with a smooth, curved surface to accommodate fiber optic bundles
- OFCC and OFCG sold separately
- Limits the bend radius of the fiber

| Item No.    | Figure | Bulk Pack Qty. |
|-------------|--------|----------------|
| OFCC-16A-RT | 1      | 100            |
| OFCG-16     | 2      | 100            |

### EFA04 Series Fiber Guide

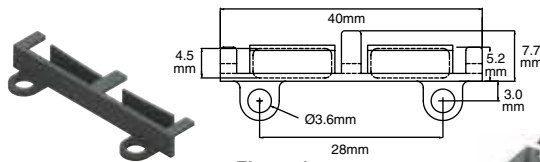


Figure 1

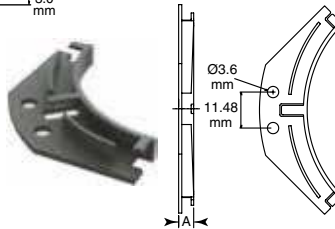


Figure 2

#### Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

#### Features:

- Provide fiber storage as well as bend control
- Various mounting options are available
- The fiber reel screw mount holes are Ø2.8mm with a 90° countersink of Ø4.6mm (holes are spaced evenly on a 30mm diameter)
- Reel can be stacked or mounted above board using accessories below

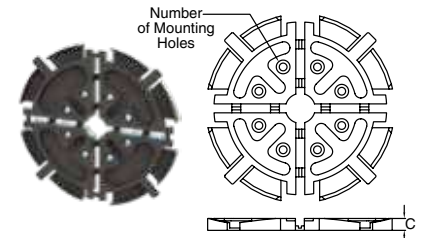


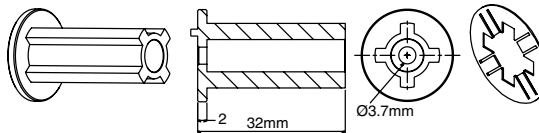
Figure 3

| Item No.     |                            |                             |        |                                           |       | Height |   | No. of Mounting Holes      | Max Fiber Storage | Bulk Pack Qty. |
|--------------|----------------------------|-----------------------------|--------|-------------------------------------------|-------|--------|---|----------------------------|-------------------|----------------|
| Guide Only   | Guide with Adhesive Pad(s) | Guide with SRHR-3555 Rivets | Figure | Guide Radius                              | In    | mm     |   |                            |                   |                |
| EFA04-60-001 | EFA04-60-P01               | EFA04-60-R01                | 1      | Straight                                  | 0.197 | 5.0    | 2 | —                          | 100               |                |
| EFA04-34-001 | EFA04-34-P01               | EFA04-34-R01                | 2      | 30 mm Radius Corner Guide                 | 0.197 | 5.0    | 2 | —                          | 100               |                |
| EFA04-34-010 | EFA04-34-P10               | EFA04-34-R10                | 2      | 30 mm Radius Corner Guide                 | 0.315 | 8.0    | 2 | —                          | 100               |                |
| EFA04-34-004 | EFA04-34-P04               | EFA04-34-R04                | 2      | 30 mm Radius Corner Guide                 | 0.472 | 12.0   | 2 | —                          | 100               |                |
| EFA04-34-002 | EFA04-34-P02               | EFA04-34-R02                | 2      | 35 mm Radius Corner Guide                 | 0.189 | 4.8    | 2 | —                          | 100               |                |
| EFA04-34-005 | EFA04-34-P05               | EFA04-34-R05                | 2      | 35 mm Radius Corner Guide                 | 0.472 | 12.0   | 2 | —                          | 100               |                |
| EFA04-34-003 | EFA04-34-P03               | EFA04-34-R03                | 2      | 40 mm Radius Corner Guide                 | 0.189 | 4.8    | 2 | —                          | 100               |                |
| EFA04-34-006 | EFA04-34-P06               | —                           | 2      | 40 mm Radius Corner Guide                 | 0.472 | 12.0   | 2 | —                          | 100               |                |
| EFA04-34-007 | EFA04-34-P07               | EFA04-34-R07                | 2      | 30-37 mm Radius Ribbon Fiber Corner Guide | 0.216 | 5.5    | 2 | —                          | 100               |                |
| EFA04-04-001 | EFA04-04-ASS               | —                           | 3      | 25 mm Radius Fiber Reel                   | 0.157 | 4.0    | 8 | 2.5 m of 900 Micron Fiber  | 100               |                |
| EFA04-21-001 | EFA04-21-ASS               | —                           | 3      | 25 mm Radius Fiber Reel                   | 0.250 | 6.4    | 8 | 4.5 m of 900 Micron Fiber  | 100               |                |
| EFA04-10-001 | EFA04-10-ASS               | —                           | 3      | 30 mm Radius Fiber Reel                   | 0.153 | 3.9    | 8 | 3.0 m of 900 Micron Fiber  | 100               |                |
| EFA04-14-001 | EFA04-14-ASS               | —                           | 3      | 30 mm Radius Fiber Reel                   | 0.488 | 12.4   | 8 | 9.0 m of 900 Micron Fiber  | 100               |                |
| EFA04-76-001 | —                          | —                           | 3      | 35 mm Radius Fiber Reel                   | 0.315 | 8.0    | 8 | 15.0 m of 900 Micron Fiber | 100               |                |
| EFA04-23-001 | —                          | —                           | 3      | 40 mm Radius Fiber Reel                   | 0.250 | 6.4    | 4 | 7.0 m of 900 Micron Fiber  | 100               |                |

### EFA04-53/EFA04-27 Series Fiber Reel Stacking Pillar and Standoff



Figure 1



#### Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

#### Features:

- EFA04-53-ASS is used to stack multiple EFA04 fiber reels, and retained with an included spring clip
- EFA04-27-ASS is used to space the EFA04 fiber reel off the PC Board (top of the standoff snaps into holes in the fiber reel)
- Mounted from the bottom of the board with included rivet

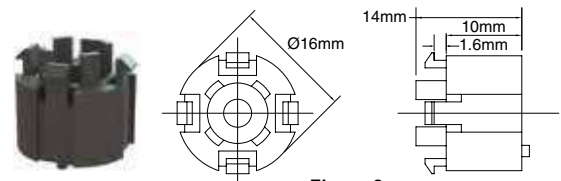


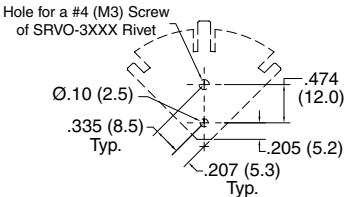
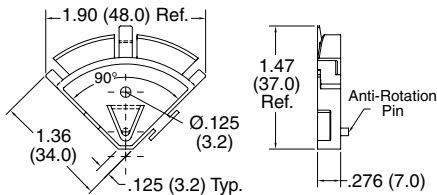
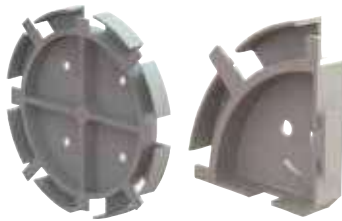
Figure 2

| Item No.     | Figure | Description                | Bulk Pack Qty. |
|--------------|--------|----------------------------|----------------|
| EFA04-53-ASS | 1      | Fiber Reel Stacking Pillar | 100            |
| EFA04-27-ASS | 2      | Fiber Reel Standoff        | 100            |



FIBER GUIDES & STORAGE

OFS Series  
90°Fiber Segment, 30mm Radius



Recommended Mounting Holes

- Specifications:
- Material: UL94 V-0 Nylon 6/6
  - Color: Natural
- Features:
- Provides a 90° bend control radius
  - Assemble two pieces for bend control around a 180° turn
  - Assemble four pieces for excess fiber spooling at 30mm radius
  - In a four-piece assembled mode, stores approximately 60m of 900 micron fiber
  - Mounts with a #4 (M3) screw or SRVO-30XX snap rivet

| Item No.  | Bulk Pack Qty. |
|-----------|----------------|
| OFS90-30R | 100            |

OFFG/OFFGSP Series  
Flexible Fiber Guide System

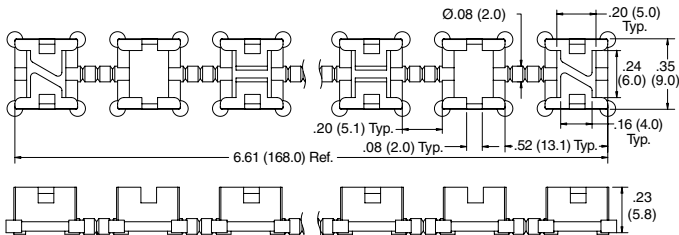
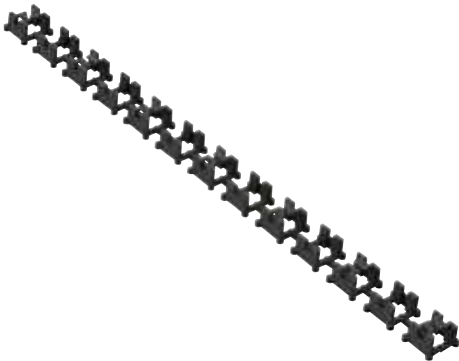


Figure 1

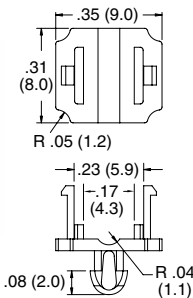


Figure 2

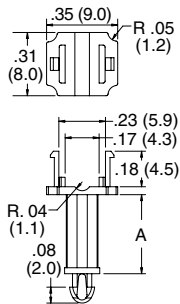


Figure 3

- Specifications:
- Material: UL94 V-0 Nylon 6/6
  - Color: Black
- Features:
- Fully modular, flexible system giving complete fiber management and protection
  - Unique spine allows the guide to be oriented in all planes
  - For use with 250 and 900 micron fiber
  - Fiber can enter and exit at any point, without risk of fiber snagging or kinking
  - Angled and straight lugs located along the guide prevent the fiber from springing out
  - 25mm maximum bend radius when flexed
  - Guide can be cut to various lengths at flexible link sections
  - Two types of support posts; OFFGSP-F for mounting flush to the panel, and OFFGSP-R that raises the guide 5mm
  - Guide snaps easily into the support posts



| Item No.        | Figure | Description              | Ø Mounting Hole |     | Panel Thickness |     | A     |     | Bulk Pack Qty. |
|-----------------|--------|--------------------------|-----------------|-----|-----------------|-----|-------|-----|----------------|
|                 |        |                          | in              | mm  | in              | mm  | in    | mm  |                |
| OFFG-165M-19-BK | 1      | Fiber Guide              | —               | —   | —               | —   | —     | —   | 100            |
| OFFGSP-F-19-BK  | 2      | Flat Fiber Guide Support | 0.098           | 2.5 | 0.063           | 1.6 | —     | —   | 100            |
| OFFGSP-R-05-BK  | 3      | Fiber Guide Spacer       | 0.098           | 2.5 | 0.063           | 1.6 | 0.200 | 5.0 | 100            |

FIBER MANAGEMENT & DUST CAPS



EFA70-07 Series  
900 Micron Strain Relief Boot

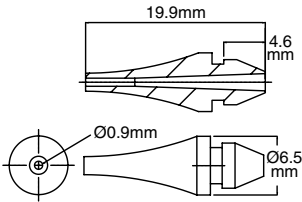


Specifications:

- Material: TPE
- Color: Black

Features:

- Provides added protection to 900 micron fiber while routing through a hole
- Limits the angle of the fiber preventing signal loss



| Item No.     | Hole Ø |     | Panel Thickness |     | Bulk Pack Qty. |
|--------------|--------|-----|-----------------|-----|----------------|
|              | In     | mm  | In              | mm  |                |
| EFA70-07-001 | 0.157  | 4.0 | 0.063           | 1.6 | 500            |

EFA70-01 Series  
900 Micron Transition Boot

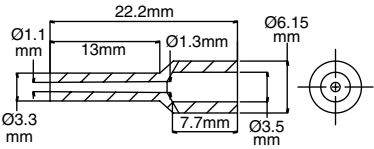


Specifications:

- Material: TPE
- Color: Black

Features:

- Transitions a 3mm jacketed fiber to a 900 micron fiber
- Limits the bend of the fiber, preventing signal loss



| Item No.     | Bulk Pack Qty. |
|--------------|----------------|
| EFA70-01-001 | 500            |

EFA52 Series  
Quick Panel Mount Strain Relief Gland Kit

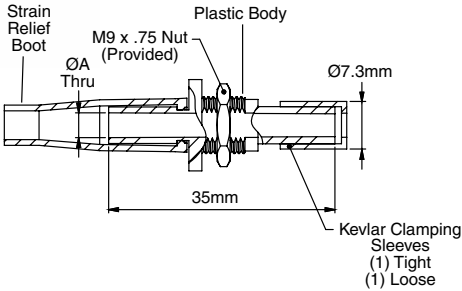


Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

Features:

- Acts as a cable gland for jacketed fiber, preventing the cable from being pulled out of the device
- The plastic body mounts directly on the panel, and the jacketed cable is passed through the center hole
- On the inside of the panel, the cable's Kevlar strands are clamped to the plastic body using one of two clamping sleeves (whichever is appropriate)
- Secured in the panel with a mounting bolt
- On the outside of the panel, a flexible boot is attached to the plastic body, providing control over the bend-radius of the cable exiting the strain-relief assembly



| Item No.     | Ø Jacketed Fiber |     | A     |     | Bulk Pack Qty. |
|--------------|------------------|-----|-------|-----|----------------|
|              | In               | mm  | In    | mm  |                |
| EFA52-02-ASS | 0.118            | 3.0 | 0.138 | 3.5 | 250            |
| EFA52-05-ASS | 0.079            | 2.0 | 0.098 | 2.5 | 250            |

EFA02-43 Series  
Connector Adapter Dust Cap

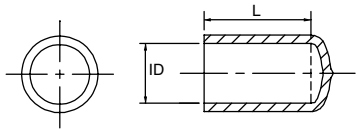


Specifications:

- Material: PVC
- Color: Black

Features:

- Provides environmental protection for SMA, ST and FC connector adapters
- Made of flexible PVC to provide snug fit



| Item No.     | Contents                       | L     |      | ID    |     | Bulk Pack Qty. |
|--------------|--------------------------------|-------|------|-------|-----|----------------|
|              |                                | In    | mm   | In    | mm  |                |
| EFA02-43-001 | SMA Connector Adapter Dust Cap | 0.500 | 12.7 | 0.120 | 3.0 | 500            |
| EFA02-43-002 | ST Connector Adapter Dust Cap  | 0.500 | 12.7 | 0.280 | 7.1 | 500            |
| EFA02-43-003 | FC Connector Adapter Dust Cap  | 0.310 | 8.0  | 0.280 | 7.1 | 500            |



# DUST CAPS

## EFA02 Series Connector Dust Caps and Plugs



Figure 1

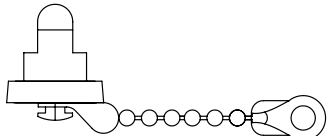


Figure 2

Specifications:

- Material: See Table
- Color: See Table

Features:

- The EFA02-14-001 plugs an SC connects and does not require a dust chain (other dust caps in this series require the retaining chain and cannot be sold separately)
- The steel caps are threaded onto the connector adapters
- Provides mechanical and environmental protection to adaptors when unmated
- Stainless Steel construction suitable for harsh environments
- 2.5" long chain

| Item No.     | Material                                |                                                             | Bulk Pack Qty. |
|--------------|-----------------------------------------|-------------------------------------------------------------|----------------|
|              | Figure 1<br>Stainless Steel Cap & Chain | Figure 2<br>Black TPE Plug & Optional Stainless Steel Chain |                |
| EFA02-04-ASS | SMA Adapter Dust Cap & Chain            | —                                                           | 100            |
| EFA02-07-ASS | DIN Adapter Dust Cap & Chain            | —                                                           | 100            |
| EFA02-09-ASS | FC Adapter Dust Cap & Chain             | —                                                           | 100            |
| EFA02-10-ASS | ST Adapter Dust Cap & Chain             | —                                                           | 100            |
| EFA02-14-001 | —                                       | SC Adapter Dust Plug                                        | 250            |
| EFA02-14-ASS | —                                       | EFA02-14-001 Dust Plug with Chain                           | 250            |

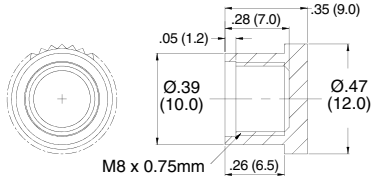
## EFA02-03 Series FC Connector Port Dust Cap

Specifications:

- Material: High-Density Polyethylene
- Color: See Table

Features:

- Dust caps are threaded onto the FC connector adapter providing protection from outside elements



| Item No.     | Color   | Bulk Pack Qty. |
|--------------|---------|----------------|
| EFA02-03-001 | Natural | 500            |
| EFA02-03-002 | Black   | 500            |
| EFA02-03-003 | Green   | 500            |
| EFA02-03-004 | White   | 500            |
| EFA02-03-005 | Red     | 500            |

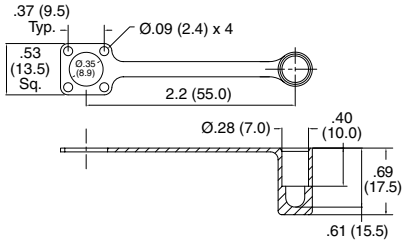
## EFA02-35 Series ST Connector Port Dust Cap and Lanyard

Specifications:

- Material: TPE
- Color: Black

Features:

- Provides environmental protection of ST connector ports
- Molded-on lanyard prevents the loss of the cap



| Item No.     | Bulk Pack Qty. |
|--------------|----------------|
| EFA02-35-001 | 250            |

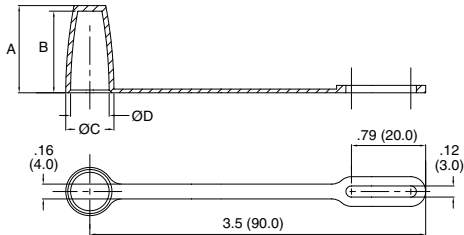
## EFA02 Series Connector Port Dust Cap and Lanyard

Specifications:

- Material: PVC
- Color: Black

Features:

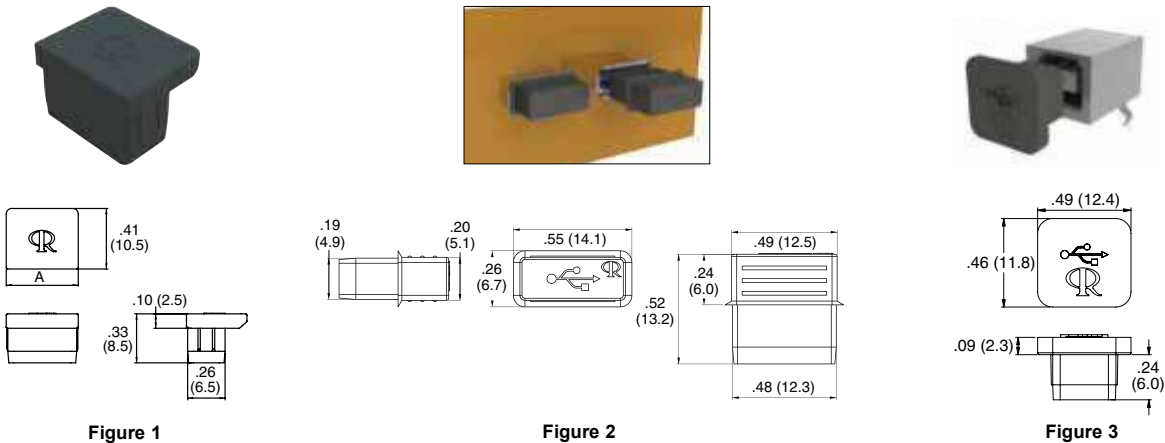
- Provides environmental protection to various connectors
- Molded-on lanyard is attached to the connector to prevent loss of cover



| Item No.     | Contents              | A     |      | B     |      | C     |      | D     |      | Bulk Pack Qty. |
|--------------|-----------------------|-------|------|-------|------|-------|------|-------|------|----------------|
|              |                       | in    | mm   | in    | mm   | in    | mm   | in    | mm   |                |
| EFA02-11-ASS | ST Connector Dust Cap | 0.730 | 18.5 | 0.670 | 17.0 | 0.470 | 12.0 | 0.340 | 8.7  | 250            |
| EFA02-13-ASS | FC Connector Dust Cap | 0.730 | 18.5 | 0.670 | 17.0 | 0.600 | 15.3 | 0.470 | 12.0 | 250            |



CP Series  
Connector Plugs

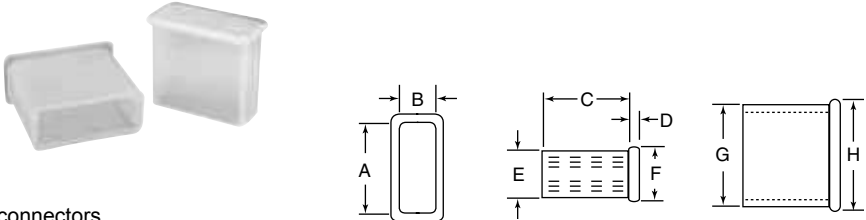


- Specifications:
- Material: Silicone Rubber
  - Color: Black
- Features:
- No stress applied to the adapter's internal components upon entry
  - Silicone material for high temperature applications up to 302°F (150°C)

| Item No. | Figure | Connector Port | A     |      | Bulk Pack Qty. |
|----------|--------|----------------|-------|------|----------------|
|          |        |                | in    | mm   |                |
| CP-RJ11  | 1      | RJ11           | 0.410 | 10.5 | 1000           |
| CP-RJ45  | 1      | RJ45           | 0.490 | 12.5 | 1000           |
| CP-USB-A | 2      | USB-A          | —     | —    | 1000           |
| CP-USB-B | 3      | USB-B          | —     | —    | 1000           |

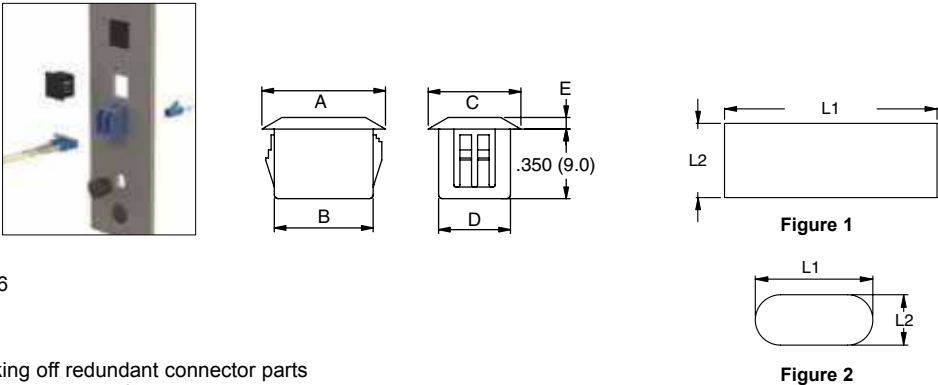
USB-A Series  
USB Connector Caps

- Specifications:
- Material: Polyethylene
  - Color: Natural
- Features:
- Protective dust cover for USB-A connectors



| Item No. | A     |      | B     |     | C     |      | D     |     | E     |     | F     |     | G     |      | H     |      | Bulk Pack Qty. |
|----------|-------|------|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|------|----------------|
|          | in    | mm   | in    | mm  | in    | mm   | in    | mm  | in    | mm  | in    | mm  | in    | mm   | in    | mm   |                |
| USB0A    | 0.504 | 12.8 | 0.185 | 4.7 | 0.484 | 12.3 | 0.043 | 1.1 | 0.256 | 6.5 | 0.299 | 7.6 | 0.575 | 14.6 | 0.610 | 15.5 | 100            |

BPE Series  
Connector Port Plugs



- Specifications:
- Material: UL94 V-2 Nylon 6/6
  - Color: See Table
- Features:
- Aesthetically pleasing, blanking off redundant connector parts
  - Quick and easy installation; simply press fit in the designated hole
  - ST Series covers Double-D, D or round holes

Recommended Mounting Holes

| Item No.      | Color | Mounting Hole Figure | L1            |             | L2    |      | A     |      | B     |      | C     |      | D     |      | E     |     | Bulk Pack Qty. |
|---------------|-------|----------------------|---------------|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|----------------|
|               |       |                      | in            | mm          | in    | mm   | in    | mm   | in    | mm   | in    | mm   | in    | mm   | in    | mm  |                |
| BPE-SC-1-01   | Black | 1                    | 0.512         | 13.0        | 0.374 | 9.5  | 0.850 | 21.5 | 0.500 | 12.8 | 0.470 | 12.0 | 0.370 | 9.3  | 0.059 | 1.5 | 1000           |
| BPE-SC-2-01   | Black | 1                    | 0.512         | 13.0        | 0.374 | 9.5  | 0.630 | 16.0 | 0.500 | 12.8 | 0.470 | 12.0 | 0.370 | 9.3  | 0.059 | 1.5 | 1000           |
| BPE-SC-3-01   | Black | 1                    | 1.024         | 26.0        | 0.374 | 9.5  | 1.370 | 34.8 | 1.020 | 25.8 | 0.470 | 12.0 | 0.370 | 9.3  | 0.059 | 1.5 | 1000           |
| BPE-RJ45-01   | Grey  | 1                    | 0.760 - 0.790 | 19.3 - 20.0 | 0.590 | 15.0 | 0.870 | 22.0 | 0.580 | 14.7 | 0.700 | 17.7 | 0.750 | 19.1 | 0.059 | 1.5 | 1000           |
| BPE-LC-D-01BK | Black | 1                    | 0.532         | 13.5        | 0.532 | 13.5 | 0.590 | 15.0 | 0.520 | 13.2 | 0.590 | 15.0 | 0.520 | 13.2 | 0.078 | 2.0 | 1000           |
| BPE-ST-1-01   | Black | 2                    | 0.370         | 19.4        | 0.311 | 7.9  | Ø.470 | Ø12  | Ø.360 | Ø9.2 | Ø.470 | Ø12  | 0.300 | 7.7  | 0.059 | 1.5 | 1000           |

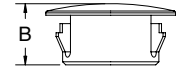
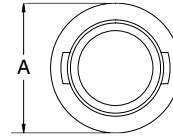
**CONNECTOR CAPS & PLUGS/SHEET METAL PLUGS****PGM/PLH Series****Standard Locking Hole Plug**

## Specifications:

- Material: UL94V-2 Nylon 6/6
- Color: Black

## Features:

- Each part fits multiple common sheet metal thicknesses
- Closes access sheet metal panel holes



| Item No. | Mounting Hole |      | Max Panel Thickness |     | OD A  |      | Overall Height B |      | Bulk Pack Qty. |
|----------|---------------|------|---------------------|-----|-------|------|------------------|------|----------------|
|          | in            | mm   | in                  | mm  | in    | mm   | in               | mm   |                |
| PGM-1    | 0.250         | 6.4  | 0.062               | 1.6 | 0.312 | 7.9  | 0.312            | 7.9  | 1000           |
| PGM-6    | 0.252         | 6.4  | 0.067               | 1.7 | 0.299 | 7.6  | 0.221            | 5.6  | 1000           |
| PGM-7    | 0.278         | 7.1  | 0.063               | 1.6 | 0.433 | 11.0 | 0.276            | 7.0  | 1000           |
| PGM-8    | 0.307         | 7.8  | 0.063               | 1.6 | 0.375 | 9.5  | 0.236            | 6.0  | 1000           |
| PGM-2    | 0.312         | 7.9  | 0.062               | 1.6 | 0.375 | 9.5  | 0.312            | 7.9  | 1000           |
| PGM-33   | 0.375         | 9.5  | 0.125               | 3.2 | 0.468 | 11.9 | 0.406            | 6.4  | 1000           |
| PGM-9    | 0.376         | 9.6  | 0.047               | 1.2 | 0.511 | 13.0 | 0.256            | 6.5  | 1000           |
| PGM-10   | 0.386         | 9.8  | 0.055               | 1.4 | 0.511 | 13.0 | 0.236            | 6.0  | 1000           |
| PGM-34   | 0.437         | 11.1 | 0.125               | 3.2 | 0.531 | 13.5 | 0.406            | 10.3 | 1000           |
| PGM-3    | 0.468         | 11.9 | 0.062               | 1.6 | 0.531 | 13.5 | 0.250            | 6.4  | 1000           |
| PGM-24   | 0.500         | 12.7 | 0.125               | 3.2 | 0.578 | 14.7 | 0.406            | 10.3 | 1000           |
| PGM-5    | 0.500         | 12.7 | 0.062               | 1.6 | 0.562 | 14.3 | 0.250            | 6.4  | 1000           |
| PGM-13   | 0.506         | 12.8 | 0.083               | 2.1 | 0.669 | 17.0 | 0.315            | 8.0  | 1000           |
| PGM-11   | 0.531         | 13.5 | 0.062               | 1.6 | 0.593 | 15.1 | 0.250            | 6.4  | 500            |
| PGM-26   | 0.562         | 14.3 | 0.125               | 3.2 | 0.656 | 16.7 | 0.406            | 10.3 | 200            |
| PGM-27   | 0.625         | 15.9 | 0.125               | 3.2 | 0.718 | 18.2 | 0.406            | 10.3 | 200            |
| PGM-12   | 0.625         | 15.9 | 0.062               | 1.6 | 0.718 | 18.2 | 0.250            | 6.4  | 500            |
| PGM-16   | 0.628         | 16.0 | 0.079               | 2.0 | 0.787 | 20.0 | 0.315            | 8.0  | 500            |
| PGM-28   | 0.687         | 17.5 | 0.125               | 3.2 | 0.781 | 19.8 | 0.406            | 10.3 | 200            |
| PGM-19   | 0.746         | 19.0 | 0.125               | 3.2 | 0.925 | 23.5 | 0.413            | 10.5 | 500            |
| PGM-14   | 0.750         | 19.1 | 0.062               | 1.6 | 0.843 | 21.4 | 0.250            | 6.4  | 500            |
| PGM-15   | 0.781         | 19.8 | 0.062               | 1.6 | 0.890 | 22.6 | 0.250            | 6.4  | 500            |
| PGM-22   | 0.864         | 22   | 0.118               | 3.0 | 1.024 | 26.0 | 0.378            | 9.6  | 500            |
| PGM-17   | 0.875         | 22.2 | 0.062               | 1.6 | 0.968 | 24.6 | 0.250            | 6.5  | 500            |
| PGM-29   | 0.875         | 22.2 | 0.125               | 3.2 | 1.125 | 28.6 | 0.453            | 11.5 | 200            |
| PGM-25   | 1.004         | 25.5 | 0.125               | 3.2 | 1.102 | 28.0 | 0.500            | 12.7 | 200            |
| PGM-32   | 1.097         | 27.9 | 0.125               | 3.2 | 1.218 | 30.9 | 0.465            | 11.8 | 200            |
| PGM-30   | 1.203         | 30.6 | 0.125               | 3.2 | 1.339 | 34.0 | 0.512            | 13.0 | 200            |
| PGM-18   | 1.250         | 31.8 | 0.125               | 3.2 | 1.375 | 34.9 | 0.465            | 11.8 | 200            |
| PGM-20   | 1.375         | 35.0 | 0.125               | 3.2 | 1.500 | 38.1 | 0.465            | 11.8 | 200            |
| PGM-31   | 1.500         | 38.1 | 0.125               | 3.2 | 1.671 | 42.4 | 0.465            | 11.8 | 200            |
| PGM-21   | 1.750         | 44.5 | 0.125               | 3.2 | 1.906 | 48.4 | 0.465            | 11.8 | 100            |
| PGM-23   | 2.000         | 50.8 | 0.125               | 3.2 | 2.170 | 55.1 | 0.470            | 11.9 | 100            |
| PLH023A  | 2.500         | 63.5 | 0.250               | 6.4 | 2.775 | 70.5 | 0.750            | 19.1 | 500            |

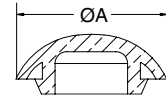
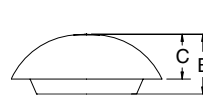
**LTP Series****IP67 Liquid Tight Plug**

## Specifications:

- Material: UL94 V-0 Silicone
- Color: Black

## Features:

- Offers protection up to IP67
- Temperature Range: -40°F to 302°F (-40°C - 150°C)



| Item No. | Ø Mounting Hole |      | Ø Head A |      | Overall Height B |      | Head Height C |      | Max Panel Thickness |     | Bulk Pack Qty. |
|----------|-----------------|------|----------|------|------------------|------|---------------|------|---------------------|-----|----------------|
|          | in              | mm   | in       | mm   | in               | mm   | in            | mm   | in                  | mm  |                |
| LTP-4    | 0.500           | 12.7 | 0.92     | 23.4 | 0.449            | 11.4 | 0.287         | 7.3  | 0.125               | 3.2 | 1000           |
| LTP-7    | 0.625           | 15.9 | 1.09     | 27.7 | 0.455            | 11.6 | 0.319         | 8.1  | 0.125               | 3.2 | 500            |
| LTP-5    | 0.750           | 19.1 | 1.15     | 29.2 | 0.512            | 13.0 | 0.350         | 8.9  | 0.125               | 3.2 | 500            |
| LTP-1    | 0.875           | 22.2 | 1.26     | 32.0 | 0.500            | 12.7 | 0.374         | 9.5  | 0.125               | 3.2 | 1000           |
| LTP-6    | 1.000           | 25.4 | 1.41     | 35.8 | 0.559            | 14.2 | 0.398         | 10.1 | 0.125               | 3.2 | 200            |
| LTP-2    | 1.093           | 27.8 | 1.54     | 39.2 | 0.539            | 13.7 | 0.413         | 10.5 | 0.125               | 3.2 | 500            |
| LTP-3    | 1.375           | 34.9 | 1.82     | 46.2 | 0.579            | 14.7 | 0.433         | 11.0 | 0.125               | 3.2 | 200            |

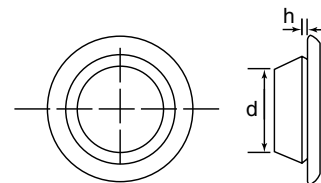
**BP Series****Flexible Hole Plug**

## Specifications:

- Material: TPE
- Color: Black

## Features:

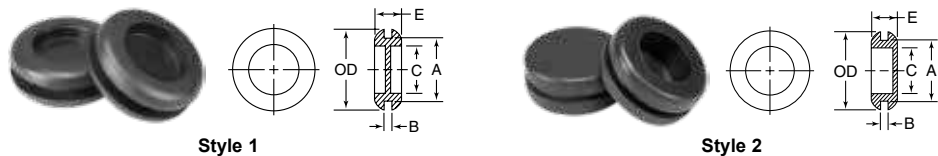
- Each size covers a range of panel thicknesses
- Designed to fit standard metric holes
- Very resistant to oils, acids and alkalis



| Item No. | Panel Hole d |      | Panel Thickness h |           | OD   |      | Bulk Pack Qty. |
|----------|--------------|------|-------------------|-----------|------|------|----------------|
|          | in           | mm   | in                | mm        | in   | mm   |                |
| BP-16230 | 0.394        | 10.0 | 0.032 - 0.079     | 0.8 - 2.0 | 0.76 | 19.3 | 1000           |
| BP-16231 | 0.472        | 12.0 | 0.032 - 0.079     | 0.8 - 2.0 | 0.83 | 21.0 | 1000           |
| BP-16232 | 0.551        | 14.0 | 0.032 - 0.079     | 0.8 - 2.0 | 0.91 | 23.0 | 1000           |
| BP-16233 | 0.630        | 16.0 | 0.032 - 0.079     | 0.8 - 2.0 | 0.98 | 25.0 | 1000           |
| BP-16234 | 0.709        | 18.0 | 0.032 - 0.079     | 0.8 - 2.0 | 1.06 | 27.0 | 1000           |
| BP-16236 | 0.866        | 22.0 | 0.032 - 0.079     | 0.8 - 2.0 | 1.23 | 31.2 | 1000           |
| BP-3     | 0.866        | 22.0 | 0.063 - 0.118     | 1.6 - 3.0 | 1.10 | 28.0 | 1000           |
| BP-4     | 1.043        | 26.5 | 0.063 - 0.118     | 1.6 - 3.0 | 1.28 | 32.5 | 1000           |
| BP-16238 | 1.181        | 30.0 | 0.032 - 0.079     | 0.8 - 2.0 | 1.55 | 39.4 | 1000           |



GRD/DG/DGB Series  
Diaphragm Grommet



Specifications:

- Material: GRD/DG: Flexible PVC  
DGB: UL94 HB TPE
- Color: Black

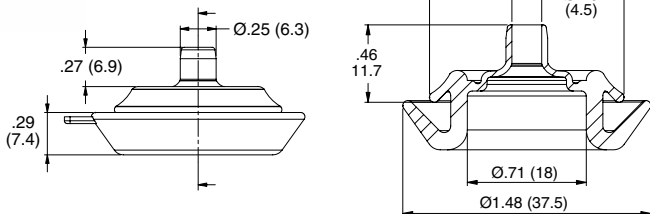
Features:

- Use as a blanking plugs to conceal access holes until wire are installed
- To install wires, pierce the central membrane film and insert wire
- Design allows for multiple ranges of wires to pass thru
- PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



| Item No.      | Style | Ø Mounting Hole A |      | Panel Thickness |     | C Ref. |      | OD   |      | E    |      | Bulk Pack Qty. |
|---------------|-------|-------------------|------|-----------------|-----|--------|------|------|------|------|------|----------------|
|               |       | in                | mm   | in              | mm  | in     | mm   | in   | mm   | in   | mm   |                |
| DGB-2.5       | 2     | 0.25              | 6.4  | 0.03            | 0.8 | 0.16   | 4.1  | 0.37 | 9.4  | 0.14 | 3.6  | 1000           |
| DGB-4         | 2     | 0.39              | 9.9  | 0.06            | 1.5 | 0.25   | 6.4  | 0.50 | 12.7 | 0.26 | 6.6  | 1000           |
| DGB-6         | 2     | 0.43              | 11.0 | 0.06            | 1.5 | 0.31   | 8.0  | 0.69 | 17.5 | 0.31 | 8.0  | 1000           |
| DGB-5         | 2     | 0.49              | 12.5 | 0.06            | 1.5 | 0.37   | 9.5  | 0.62 | 15.7 | 0.25 | 6.4  | 1000           |
| DG-19426      | 1     | 0.63              | 16.0 | 0.06            | 1.5 | 0.43   | 11.0 | 0.75 | 19.0 | 0.23 | 5.8  | 1000           |
| DGB-7         | 2     | 0.63              | 16.0 | 0.06            | 1.5 | 0.43   | 11.0 | 0.75 | 19.0 | 0.31 | 8.0  | 1000           |
| GRD1062091PA  | 1     | 0.63              | 16.0 | 0.09            | 2.4 | 0.49   | 12.5 | 0.87 | 22.0 | 0.32 | 8.0  | 5000           |
| GRD2075061PA  | 2     | 0.75              | 19.0 | 0.06            | 1.5 | 0.63   | 16.0 | 1.00 | 25.4 | 0.28 | 7.0  | 4000           |
| DGB-11        | 2     | 0.75              | 19.0 | 0.06            | 1.5 | 0.63   | 16.0 | 1.00 | 25.4 | 0.28 | 7.0  | 1000           |
| DG-15512      | 1     | 0.75              | 19.0 | 0.08            | 2.0 | 0.63   | 15.9 | 1.00 | 25.5 | 0.31 | 7.9  | 1000           |
| DG-10134      | 1     | 0.75              | 19.0 | 0.09            | 2.4 | 0.61   | 15.5 | 1.00 | 25.5 | 0.35 | 8.8  | 1000           |
| GRD1075121PA  | 1     | 0.75              | 19.0 | 0.12            | 3.0 | 0.61   | 15.5 | 1.00 | 25.5 | 0.37 | 9.5  | 2500           |
| DG-10187      | 1     | 0.79              | 20.0 | 0.06            | 1.5 | 0.61   | 15.5 | 1.00 | 25.5 | 0.32 | 8.0  | 1000           |
| DGB-10        | 2     | 0.87              | 22.0 | 0.06            | 1.5 | 0.72   | 18.4 | 1.00 | 25.5 | 0.31 | 8.0  | 1000           |
| GRD2087061PA  | 2     | 0.87              | 22.0 | 0.06            | 1.5 | 0.74   | 18.8 | 1.00 | 25.5 | 0.31 | 8.0  | 4000           |
| DGB-13        | 2     | 1.00              | 25.4 | 0.06            | 1.5 | 0.81   | 20.5 | 1.18 | 30.0 | 0.31 | 8.0  | 1000           |
| GRD2100061PA  | 2     | 1.00              | 25.4 | 0.06            | 1.5 | 0.81   | 20.5 | 1.18 | 30.0 | 0.31 | 8.0  | 2000           |
| GRD1100091PA  | 1     | 1.00              | 25.5 | 0.09            | 2.4 | 0.75   | 19.0 | 1.44 | 36.5 | 0.33 | 8.4  | 2000           |
| GRD1125091PA  | 1     | 1.26              | 32.0 | 0.09            | 2.4 | 0.98   | 25.0 | 1.54 | 39.0 | 0.32 | 8.0  | 1000           |
| GRD1125151PA  | 1     | 1.26              | 32.0 | 0.16            | 4.0 | 1.00   | 25.5 | 1.54 | 39.0 | 0.38 | 9.5  | 1000           |
| GRD21625375PA | 2     | 1.63              | 42.0 | 0.09            | 2.4 | 1.22   | 31.0 | 1.93 | 49.0 | 0.40 | 10.1 | 1000           |

AHG Series  
Angular Hole Grommet



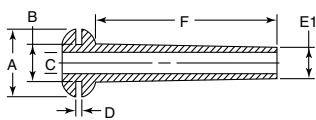
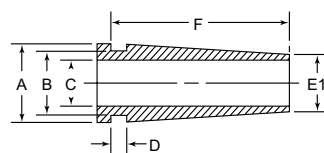
Specifications:

- Materials: EPDM, 60 Shore A
- Color: Black

Features:

- Allows cables to pass through a panel at a maximum 45° angle

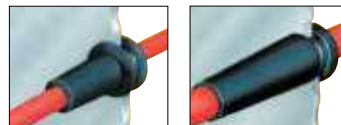
| Item No. | Ø Cable Size  |           | Panel Thickness D |           | Mounting Hole Ø |      | Bulk Pack Qty. |
|----------|---------------|-----------|-------------------|-----------|-----------------|------|----------------|
|          | in            | mm        | in                | mm        | in              | mm   |                |
| AHG-1    | 0.197 - 0.276 | 5.0 - 7.0 | 0.079 - 0.098     | 2.0 - 2.5 | 0.945           | 24.0 | 500            |

**GROMMETS & GROMMET SLEEVES****GRS/RGS Series  
Grommet Sleeve****Style 1****Style 2****Specifications:**

- Material: Flexible PVC
- Color: Black

**Features:**

- Sleeve design provides additional support and protection for cables/wires passing through panel
- PVC is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



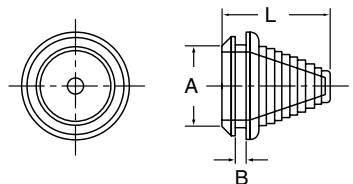
| Item No.    | Style | Ø Hole B |      | Panel Thickness D |     | A Ø   |      | C Ø   |     | E1    |      | F     |      | Bulk Pack Qty. |
|-------------|-------|----------|------|-------------------|-----|-------|------|-------|-----|-------|------|-------|------|----------------|
|             |       | in       | mm   | in                | mm  | in    | mm   | in    | mm  | in    | mm   | in    | mm   |                |
| GRS1030151A | 1     | 0.300    | 7.6  | 0.156             | 4.0 | 0.560 | 14.2 | 0.240 | 6.1 | 0.311 | 7.9  | 1.250 | 31.8 | 5000           |
| RGS1-60466  | 1     | 0.343    | 8.7  | 0.062             | 1.6 | 0.560 | 14.2 | 0.200 | 5.1 | 0.280 | 7.1  | 1.650 | 42.0 | 4000           |
| GRS1037091A | 1     | 0.374    | 9.5  | 0.094             | 2.4 | 0.560 | 14.2 | 0.250 | 6.4 | 0.311 | 7.9  | 0.562 | 14.3 | 10000          |
| RGS2-12462  | 2     | 0.500    | 12.7 | 0.125             | 3.2 | 0.595 | 15.1 | 0.375 | 9.5 | 0.468 | 11.9 | 1.398 | 35.5 | 1000           |
| GRS2050121A | 2     | 0.500    | 12.7 | 0.125             | 3.2 | 0.595 | 15.1 | 0.375 | 9.5 | 0.468 | 11.9 | 1.398 | 35.5 | 2000           |
| RGS2-51409  | 2     | 0.500    | 12.7 | 0.031             | 0.8 | 0.750 | 19.1 | 0.381 | 9.7 | 0.480 | 12.2 | 1.055 | 26.8 | 1000           |
| GRS2050031A | 2     | 0.500    | 12.7 | 0.031             | 0.8 | 0.750 | 19.1 | 0.381 | 9.7 | 0.480 | 12.2 | 1.055 | 26.8 | 4000           |

**GRC Series  
Stepped Grommet****Specifications:**

- Material: Flexible PVC
- Color: Black

**Features:**

- Protects wires, cables, tubing, hoses
- Accommodates a range of cable sizes
- Can be used as a blanking plug until cut



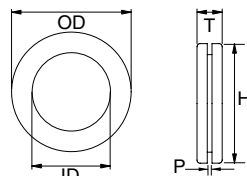
| Item No. | Panel Hole Size A |      | Panel Thickness B |     | Length L |      | Cable Range   |             | Bulk Pack Qty. |
|----------|-------------------|------|-------------------|-----|----------|------|---------------|-------------|----------------|
|          | in                | mm   | in                | mm  | in       | mm   | in            | mm          |                |
| 1251347  | 0.500             | 12.7 | 0.120             | 3.0 | 1.270    | 32.5 | 0.200 - 0.350 | 5.0 - 9.0   | 1000           |
| 1251348  | 0.830             | 21.0 | 0.120             | 3.0 | 1.080    | 27.5 | 0.200 - 0.670 | 5.0 - 17.0  | 1000           |
| 1251349  | 1.020             | 26.0 | 0.120             | 3.0 | 1.160    | 29.5 | 0.390 - 0.870 | 10.0 - 22.0 | 1000           |

**HG Series  
TPE Flexible Hole Grommet****Specifications:**

- Material: UL94 HB TPE
- Color: Black
- Temperature Range: -58°F to 203°F (-50°C - 95°C)

**Features:**

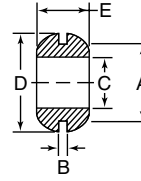
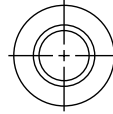
- Suitable for outdoor use in accordance with UL 746C



| Item No. | Mounting Hole H |      | Panel Thickness P |     | ID    |      | OD    |      | Thickness T |     | Bulk Pack Qty. |
|----------|-----------------|------|-------------------|-----|-------|------|-------|------|-------------|-----|----------------|
|          | in              | mm   | in                | mm  | in    | mm   | in    | mm   | in          | mm  |                |
| HG-2     | 0.190           | 4.8  | 0.063             | 1.6 | 0.125 | 3.2  | 0.313 | 8.0  | 0.252       | 6.4 | 1000           |
| HG-2.5   | 0.252           | 6.4  | 0.063             | 1.6 | 0.156 | 4.0  | 0.375 | 9.5  | 0.248       | 6.3 | 1000           |
| HG-3     | 0.305           | 7.7  | 0.032             | 0.8 | 0.188 | 4.8  | 0.430 | 10.9 | 0.188       | 4.8 | 1000           |
| HG-3.5   | 0.315           | 8.0  | 0.063             | 1.6 | 0.219 | 5.5  | 0.430 | 10.9 | 0.217       | 5.5 | 1000           |
| HG-4     | 0.375           | 9.5  | 0.094             | 2.4 | 0.250 | 6.4  | 0.559 | 14.2 | 0.276       | 7.0 | 1000           |
| HG-5     | 0.430           | 10.9 | 0.063             | 1.6 | 0.313 | 8.0  | 0.562 | 14.3 | 0.188       | 4.8 | 1000           |
| HG-17    | 0.433           | 11.0 | 0.079             | 2.0 | 0.313 | 8.0  | 0.630 | 16.0 | 0.276       | 7.0 | 1000           |
| HG-6     | 0.492           | 12.5 | 0.063             | 1.6 | 0.375 | 9.5  | 0.669 | 17.0 | 0.276       | 7.0 | 1000           |
| HG-8     | 0.660           | 16.8 | 0.063             | 1.6 | 0.495 | 12.6 | 0.846 | 21.5 | 0.250       | 6.4 | 1000           |
| HG-9     | 0.675           | 17.1 | 0.063             | 1.6 | 0.558 | 14.2 | 0.875 | 22.2 | 0.188       | 4.8 | 1000           |
| HG-11    | 0.735           | 18.7 | 0.063             | 1.6 | 0.672 | 17.1 | 0.933 | 23.7 | 0.188       | 4.8 | 1000           |
| HG-10    | 0.742           | 18.8 | 0.063             | 1.6 | 0.610 | 15.5 | 0.875 | 22.2 | 0.219       | 5.6 | 1000           |
| HG-18    | 0.748           | 19.0 | 0.094             | 2.4 | 0.500 | 12.7 | 0.954 | 24.0 | 0.280       | 7.1 | 1000           |
| HG-12    | 0.976           | 24.8 | 0.063             | 1.6 | 0.734 | 18.6 | 1.234 | 31.3 | 0.313       | 8.0 | 1000           |
| HG-14    | 0.990           | 25.1 | 0.063             | 1.6 | 0.860 | 21.8 | 1.188 | 30.2 | 0.313       | 8.0 | 1000           |
| HG-16    | 1.240           | 31.5 | 0.063             | 1.6 | 0.970 | 24.6 | 1.500 | 38.1 | 0.313       | 8.0 | 1000           |



### GRO Series Flexible Hole Grommet



#### Specifications:

- Material: See Table
- Color: Black

#### Features:

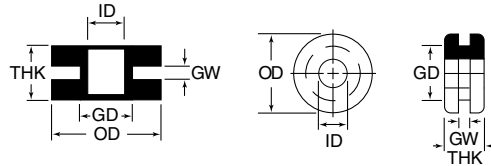
- Standard PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



| Item No.   | PVC   | TPR   | Panel Hole Size A |      | Panel Thickness B |     | ID C  |      | OD D  |      | Overall Height E |      | PVC Shore A Rating | Bulk Pack Qty. |
|------------|-------|-------|-------------------|------|-------------------|-----|-------|------|-------|------|------------------|------|--------------------|----------------|
|            |       |       | in                | mm   | in                | mm  | in    | mm   | in    | mm   | in               | mm   |                    |                |
| GRO018031A | •     | 15057 | 0.188             | 4.8  | 0.031             | 0.8 | 0.109 | 2.8  | 0.315 | 8.0  | 0.188            | 4.8  | 55                 | 10000          |
| GRO018061A | •     | 15058 | 0.188             | 4.8  | 0.063             | 1.6 | 0.125 | 3.2  | 0.315 | 8.0  | 0.250            | 6.4  | 55                 | 10000          |
| GRO023041A | —     | —     | 0.234             | 6.0  | 0.047             | 1.2 | 0.125 | 3.2  | 0.346 | 8.8  | 0.156            | 4.0  | 55                 | 10000          |
| GRO025031A | •     | 15060 | 0.252             | 6.4  | 0.031             | 0.8 | 0.156 | 4.0  | 0.375 | 9.5  | 0.156            | 4.0  | 43                 | 10000          |
| GRO025061A | •     | 15059 | 0.252             | 6.4  | 0.063             | 1.6 | 0.156 | 4.0  | 0.375 | 9.5  | 0.248            | 6.3  | 55                 | 10000          |
| —          | •     | 15061 | 0.252             | 6.4  | 0.063             | 1.6 | 0.188 | 4.8  | 0.375 | 9.5  | 0.276            | 7.0  | —                  | 10000          |
| GRO025062A | —     | —     | 0.252             | 6.4  | 0.063             | 1.6 | 0.188 | 4.8  | 0.375 | 9.5  | 0.281            | 7.1  | 55                 | 10000          |
| GRO025121A | •     | 15062 | 0.252             | 6.4  | 0.118             | 3.0 | 0.156 | 4.0  | 0.375 | 9.5  | 0.315            | 8.0  | 43                 | 10000          |
| GRO028091A | —     | —     | 0.281             | 7.1  | 0.094             | 2.4 | 0.188 | 4.8  | 0.438 | 11.1 | 0.281            | 7.1  | 55                 | 10000          |
| GRO031121A | —     | —     | 0.313             | 7.9  | 0.063             | 1.6 | 0.118 | 3.0  | 0.433 | 11.0 | 0.315            | 8.0  | 55                 | 10000          |
| —          | •     | 15064 | 0.315             | 8.0  | 0.031             | 0.8 | 0.188 | 4.8  | 0.433 | 11.0 | 0.188            | 4.8  | 55                 | 10000          |
| GRO031061A | —     | —     | 0.315             | 8.0  | 0.031             | 0.8 | 0.216 | 5.5  | 0.433 | 11.0 | 0.216            | 5.5  | 43                 | 10000          |
| —          | •     | 15065 | 0.315             | 8.0  | 0.063             | 1.6 | 0.216 | 5.5  | 0.433 | 11.0 | 0.216            | 5.5  | —                  | 10000          |
| GRO031031A | —     | —     | 0.315             | 8.0  | 0.031             | 0.8 | 0.188 | 4.8  | 0.433 | 11.0 | 0.188            | 4.8  | 55                 | 10000          |
| —          | •     | 15072 | 0.375             | 9.5  | 0.014             | 1.2 | 0.276 | 7.0  | 0.543 | 13.8 | 0.156            | 4.0  | —                  | 10000          |
| —          | •     | 15067 | 0.375             | 9.5  | 0.063             | 1.6 | 0.188 | 4.8  | 0.492 | 12.5 | 0.268            | 6.8  | —                  | 10000          |
| GRO037061A | •     | 15069 | 0.375             | 9.5  | 0.063             | 1.6 | 0.250 | 6.4  | 0.559 | 14.2 | 0.250            | 6.4  | 55                 | 10000          |
| GRO037091A | —     | —     | 0.375             | 9.5  | 0.063             | 1.6 | 0.250 | 6.4  | 0.559 | 14.2 | 0.276            | 7.0  | 55                 | 10000          |
| —          | •     | 15073 | 0.375             | 9.5  | 0.063             | 1.6 | 0.315 | 8.0  | 0.559 | 14.2 | 0.188            | 4.8  | —                  | 10000          |
| —          | •     | 15074 | 0.375             | 9.5  | 0.063             | 1.6 | 0.315 | 8.0  | 0.559 | 14.2 | 0.315            | 8.0  | —                  | 10000          |
| GRO031041A | —     | —     | 0.375             | 9.5  | 0.047             | 1.2 | 0.219 | 5.6  | 0.438 | 11.1 | 0.156            | 4.0  | 55                 | 10000          |
| —          | •     | 15068 | 0.375             | 9.5  | 0.095             | 2.4 | 0.250 | 6.4  | 0.559 | 14.2 | 0.276            | 7.0  | —                  | 10000          |
| GRO037041A | —     | —     | 0.375             | 9.5  | 0.047             | 1.2 | 0.281 | 7.1  | 0.563 | 14.3 | 0.188            | 4.8  | 55                 | 10000          |
| —          | 15071 | —     | 0.402             | 10.2 | 0.047             | 1.2 | 0.276 | 7.0  | 0.543 | 13.8 | 0.177            | 4.5  | —                  | 10000          |
| GRO040061A | —     | —     | 0.406             | 10.3 | 0.063             | 1.6 | 0.283 | 7.2  | 0.563 | 14.3 | 0.156            | 4.0  | 55                 | 10000          |
| GRO043061A | •     | 15075 | 0.433             | 11.0 | 0.063             | 1.6 | 0.315 | 8.0  | 0.559 | 14.2 | 0.188            | 4.8  | 55                 | 10000          |
| —          | •     | 15076 | 0.433             | 11.0 | 0.063             | 1.6 | 0.315 | 8.0  | 0.559 | 14.2 | 0.315            | 8.0  | —                  | 10000          |
| —          | •     | 15078 | 0.433             | 11.0 | 0.063             | 1.6 | 0.315 | 8.0  | 0.630 | 16.0 | 0.250            | 6.4  | —                  | 10000          |
| GRO046071A | —     | —     | 0.469             | 11.9 | 0.078             | 2.0 | 0.378 | 9.6  | 0.688 | 17.5 | 0.266            | 6.8  | 55                 | 10000          |
| —          | •     | 15079 | 0.492             | 12.5 | 0.063             | 1.6 | 0.250 | 6.4  | 0.630 | 16.0 | 0.315            | 8.0  | —                  | 10000          |
| —          | •     | 15080 | 0.492             | 12.5 | 0.063             | 1.6 | 0.315 | 8.0  | 0.630 | 16.0 | 0.250            | 6.4  | —                  | 10000          |
| GRO050061A | •     | 15084 | 0.492             | 12.5 | 0.063             | 1.6 | 0.375 | 9.5  | 0.669 | 17.0 | 0.276            | 7.0  | 55                 | 10000          |
| —          | •     | 15086 | 0.492             | 12.5 | 0.063             | 1.6 | 0.433 | 11.0 | 0.478 | 19.0 | 0.250            | 6.4  | —                  | 10000          |
| GRO050121A | •     | 15081 | 0.492             | 12.5 | 0.118             | 3.0 | 0.315 | 8.0  | 0.630 | 16.0 | 0.315            | 8.0  | 55                 | 10000          |
| GRO050122A | •     | 15083 | 0.492             | 12.5 | 0.118             | 3.0 | 0.375 | 9.5  | 0.669 | 17.0 | 0.346            | 8.8  | 55                 | 10000          |
| GRO056061A | •     | 15087 | 0.559             | 14.2 | 0.063             | 1.6 | 0.433 | 11.0 | 0.748 | 19.0 | 0.250            | 6.4  | 55                 | 10000          |
| GRO062031A | —     | —     | 0.625             | 15.9 | 0.031             | 0.8 | 0.438 | 11.1 | 0.748 | 19.0 | 0.375            | 9.5  | 55                 | 10000          |
| GRO062041A | •     | 15089 | 0.629             | 16.0 | 0.047             | 1.2 | 0.493 | 12.5 | 0.807 | 20.5 | 0.276            | 7.0  | 55                 | 10000          |
| GRO068031A | —     | —     | 0.688             | 17.5 | 0.031             | 0.8 | 0.563 | 14.3 | 0.875 | 22.2 | 0.281            | 7.1  | 55                 | 10000          |
| GRO068061A | •     | 15090 | 0.688             | 17.5 | 0.063             | 1.6 | 0.493 | 12.5 | 0.866 | 22.0 | 0.250            | 6.4  | 55                 | 8000           |
| GRO068062A | —     | —     | 0.688             | 17.5 | 0.063             | 1.6 | 0.559 | 14.2 | 0.866 | 22.0 | 0.188            | 4.8  | 55                 | 10000          |
| GRO068121A | —     | —     | 0.688             | 17.5 | 0.125             | 3.2 | 0.500 | 12.7 | 0.875 | 22.2 | 0.313            | 7.9  | 55                 | 8000           |
| —          | •     | 15096 | 0.748             | 19.0 | 0.063             | 1.6 | 0.492 | 12.5 | 1.004 | 25.5 | 0.250            | 6.4  | —                  | 2500           |
| GRO075061A | —     | —     | 0.748             | 19.0 | 0.063             | 1.6 | 0.629 | 16.0 | 0.866 | 22.0 | 0.216            | 5.5  | 55                 | 10000          |
| —          | •     | 15093 | 0.748             | 19.0 | 0.063             | 1.6 | 0.629 | 16.0 | 0.945 | 24.0 | 0.236            | 6.0  | —                  | 7000           |
| GRO075062A | —     | —     | 0.748             | 19.0 | 0.063             | 1.6 | 0.689 | 17.5 | 0.945 | 24.0 | 0.188            | 4.8  | 55                 | 10000          |
| —          | •     | 15095 | 0.787             | 20.0 | 0.063             | 1.6 | 0.630 | 16.0 | 0.945 | 24.0 | 0.256            | 6.5  | —                  | 7000           |
| GRO081041A | —     | —     | 0.807             | 20.5 | 0.047             | 1.2 | 0.630 | 16.0 | 1.063 | 27.0 | 0.315            | 8.0  | 55                 | 4000           |
| —          | •     | 15098 | 0.807             | 20.5 | 0.047             | 1.2 | 0.630 | 16.0 | 1.063 | 27.0 | 0.315            | 8.0  | —                  | 10000          |
| GRO087121A | —     | —     | 0.875             | 22.3 | 0.125             | 3.2 | 0.625 | 15.9 | 1.063 | 27.0 | 0.375            | 9.5  | 55                 | 4000           |
| GRO100041A | —     | —     | 1.000             | 25.4 | 0.047             | 1.2 | 0.728 | 18.5 | 1.236 | 31.4 | 0.297            | 7.5  | 55                 | 2000           |
| GRO100061A | •     | 15099 | 1.000             | 25.4 | 0.063             | 1.6 | 0.728 | 18.5 | 1.236 | 31.4 | 0.315            | 8.0  | 55                 | 4000           |
| GRO100062A | —     | —     | 1.000             | 25.2 | 0.063             | 1.6 | 0.866 | 22.0 | 1.181 | 30.0 | 0.315            | 8.0  | 55                 | 4000           |
| —          | •     | 15101 | 1.000             | 25.5 | 0.063             | 1.6 | 0.866 | 22.0 | 1.181 | 30.0 | 0.315            | 8.0  | —                  | 10000          |
| GRO100121A | -     | —     | 1.000             | 25.4 | 0.125             | 3.2 | 0.750 | 19.1 | 1.250 | 31.8 | 0.375            | 9.5  | 55                 | 2000           |
| GRO125061A | •     | 15102 | 1.220             | 31.0 | 0.063             | 1.6 | 1.000 | 25.4 | 1.496 | 38.0 | 0.307            | 7.8  | 55                 | 2000           |
| GRO125031A | —     | —     | 1.260             | 32.0 | 0.031             | 0.8 | 1.000 | 25.4 | 1.750 | 44.5 | 0.250            | 6.4  | 55                 | 2000           |
| GRO125121A | —     | —     | 1.250             | 31.8 | 0.125             | 3.2 | 1.000 | 25.4 | 1.500 | 38.1 | 0.359            | 9.1  | 55                 | 2000           |
| GRO150061A | •     | 15105 | 1.457             | 37.0 | 0.063             | 1.6 | 1.228 | 31.2 | 1.791 | 45.5 | 0.375            | 9.5  | 55                 | 1000           |
| GRO150121A | •     | 15104 | 1.500             | 38.0 | 0.118             | 3.0 | 1.250 | 32.0 | 1.813 | 46.0 | 0.438            | 11.0 | 55                 | 1000           |
| GRO175061A | —     | —     | 1.750             | 44.5 | 0.063             | 1.6 | 1.500 | 38.1 | 2.000 | 50.8 | 0.375            | 9.5  | 55                 | 1000           |
| GRO175121A | —     | —     | 1.750             | 44.5 | 0.125             | 3.2 | 1.500 | 38.1 | 2.000 | 50.8 | 0.375            | 9.5  | 55                 | 1000           |
| GRO200061A | •     | 15106 | 2.000             | 50.0 | 0.063             | 1.6 | 1.750 | 45.0 | 2.375 | 60.0 | 0.406            | 10.0 | 55                 | 500            |
| GRO200121A | —     | —     | 2.000             | 50.8 | 0.125             | 3.2 | 1.750 | 44.5 | 2.375 | 60.3 | 0.469            | 11.9 | 55                 | 500            |



## GROMMETS

GR Series  
Rubber Hole Grommets

## Specifications:

- Material: SBR (Styrene Butadiene) 60 Durometer
- Color: Black
- Tensile Range: 30 - 100psi
- Temperature Range: 225°F to -50°F (107°C to -46°C)

## Features:

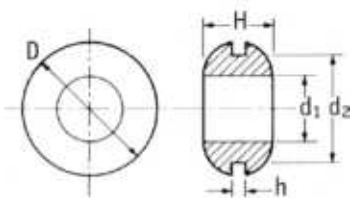
- Protects wires, cables, tubing, and hoses
- Installs instantly by simply snapping into hole
- Excellent adhesion, designed to fit standard sheet metal holes



| Item No. | Panel Hole GD |      | Panel Thickness GW |      | ID    |       | OD    |       | Overall Thickness THK |      | Bulk Pack Qty. |
|----------|---------------|------|--------------------|------|-------|-------|-------|-------|-----------------------|------|----------------|
|          | in            | mm   | in                 | mm   | in    | mm    | in    | mm    | in                    | mm   |                |
| GR3001A  | 0.250         | 6.4  | 0.063              | 1.6  | 0.125 | 3.2   | 0.344 | 8.7   | 0.188                 | 4.8  | 15000          |
| GR3041A  | 0.250         | 6.4  | 0.063              | 1.6  | 0.156 | 4.0   | 0.375 | 9.5   | 0.188                 | 4.8  | 12000          |
| GR3053A  | 0.281         | 7.2  | 0.094              | 2.4  | 0.188 | 4.8   | 0.438 | 11.1  | 0.219                 | 5.6  | 8000           |
| GR3081A  | 0.313         | 7.9  | 0.063              | 1.6  | 0.188 | 4.8   | 0.438 | 11.1  | 0.188                 | 4.8  | 10000          |
| GR3047A  | 0.313         | 7.9  | 0.063              | 1.6  | 0.219 | 5.6   | 0.438 | 11.1  | 0.188                 | 4.8  | 15000          |
| GR3401A  | 0.313         | 7.9  | 0.094              | 2.4  | 0.109 | 2.8   | 0.500 | 12.7  | 0.219                 | 5.6  | 5000           |
| GR3146A  | 0.313         | 7.9  | 0.125              | 3.2  | 0.188 | 4.8   | 0.438 | 11.1  | 0.250                 | 6.4  | 10000          |
| GR3105A  | 0.313         | 7.9  | 0.250              | 6.4  | 0.188 | 4.8   | 0.438 | 11.1  | 0.375                 | 9.5  | 5000           |
| GR3165A  | 0.375         | 9.5  | 0.063              | 1.6  | 0.250 | 6.4   | 0.563 | 14.3  | 0.250                 | 6.4  | 6000           |
| GR3164A  | 0.375         | 9.5  | 0.094              | 2.4  | 0.250 | 6.4   | 0.500 | 12.7  | 0.250                 | 6.4  | 5000           |
| GR3166A  | 0.375         | 9.5  | 0.125              | 3.2  | 0.250 | 6.4   | 0.500 | 12.7  | 0.281                 | 7.2  | 5000           |
| GR3028A  | 0.375         | 9.5  | 0.188              | 4.8  | 0.188 | 4.8   | 0.625 | 15.9  | 0.375                 | 9.5  | 3300           |
| GR3009A  | 0.375         | 9.5  | 0.375              | 9.5  | 0.313 | 7.9   | 0.563 | 14.3  | 0.500                 | 12.7 | 3000           |
| GR3400A  | 0.406         | 10.3 | 0.125              | 3.2  | 0.266 | 6.8   | 0.625 | 15.9  | 0.375                 | 9.5  | 6000           |
| GR3002A  | 0.438         | 11.1 | 0.063              | 1.6  | 0.250 | 6.4   | 0.625 | 15.9  | 0.188                 | 4.8  | 5000           |
| GR3104A  | 0.438         | 11.1 | 0.094              | 2.4  | 0.313 | 7.9   | 0.625 | 15.9  | 0.313                 | 7.9  | 4000           |
| GR3127A  | 0.438         | 11.1 | 0.188              | 4.8  | 0.250 | 6.4   | 0.625 | 15.9  | 0.313                 | 7.9  | 2500           |
| GR3384A  | 0.465         | 11.8 | 0.095              | 2.4  | 0.250 | 6.4   | 0.765 | 19.4  | 0.294                 | 7.5  | 5000           |
| GR3027A  | 0.469         | 11.9 | 0.250              | 6.4  | 0.250 | 6.4   | 0.625 | 15.9  | 0.500                 | 12.7 | 5000           |
| GR3016A  | 0.500         | 12.7 | 0.125              | 3.2  | 0.375 | 9.5   | 0.625 | 15.9  | 0.406                 | 10.3 | 7000           |
| GR3250A  | 0.500         | 12.7 | 0.125              | 3.2  | 0.375 | 9.5   | 0.625 | 15.9  | 0.313                 | 7.9  | 7000           |
| GR3091A  | 0.500         | 12.7 | 0.188              | 4.8  | 0.250 | 6.4   | 0.625 | 15.9  | 0.438                 | 11.1 | 3500           |
| GR3033A  | 0.500         | 12.7 | 0.250              | 6.4  | 0.375 | 9.5   | 0.750 | 19.1  | 0.500                 | 12.7 | 4800           |
| GR3209A  | 0.500         | 12.7 | 0.375              | 9.5  | 0.375 | 9.5   | 0.625 | 15.9  | 0.625                 | 15.9 | 5500           |
| GR3017A  | 0.531         | 13.5 | 0.125              | 3.2  | 0.375 | 9.5   | 0.750 | 19.1  | 0.375                 | 9.5  | 5000           |
| GR3065A  | 0.563         | 14.3 | 0.063              | 1.6  | 0.313 | 7.9   | 0.813 | 20.6  | 0.313                 | 7.9  | 4000           |
| GR3035A  | 0.563         | 14.3 | 0.188              | 4.8  | 0.375 | 9.5   | 0.813 | 20.6  | 0.375                 | 9.5  | 5000           |
| GR3123A  | 0.563         | 14.3 | 0.375              | 9.5  | 0.375 | 9.5   | 0.750 | 19.1  | 0.750                 | 19.1 | 2000           |
| GR3076A  | 0.625         | 15.9 | 0.063              | 1.6  | 0.375 | 9.5   | 0.875 | 22.2  | 0.313                 | 7.9  | 5000           |
| GR3150A  | 0.625         | 15.9 | 0.125              | 3.2  | 0.375 | 9.5   | 0.875 | 22.2  | 0.375                 | 9.5  | 4000           |
| GR3110A  | 0.625         | 15.9 | 0.250              | 6.4  | 0.375 | 9.5   | 0.875 | 22.2  | 0.500                 | 12.7 | 2700           |
| GR3183A  | 0.625         | 15.9 | 0.375              | 9.5  | 0.406 | 10.3  | 0.813 | 20.6  | 0.625                 | 15.9 | 2000           |
| GR3131A  | 0.688         | 17.5 | 0.188              | 4.8  | 0.438 | 11.1  | 0.938 | 23.8  | 0.438                 | 11.1 | 3000           |
| GR3218A  | 0.750         | 19.1 | 0.156              | 4.0  | 0.500 | 12.7  | 0.938 | 23.8  | 0.406                 | 10.3 | 3000           |
| GR3132A  | 0.813         | 20.6 | 0.188              | 4.8  | 0.500 | 12.7  | 1.063 | 27.0  | 0.438                 | 11.1 | 2000           |
| GR3134A  | 0.813         | 20.6 | 0.188              | 4.8  | 0.563 | 14.3  | 1.063 | 27.0  | 0.438                 | 11.1 | 1600           |
| GR3113A  | 0.813         | 20.6 | 0.250              | 6.4  | 0.563 | 14.3  | 1.063 | 27.0  | 0.500                 | 12.7 | 1500           |
| GR3080A  | 0.875         | 22.2 | 0.063              | 1.6  | 0.625 | 15.9  | 1.125 | 28.6  | 0.313                 | 7.9  | 2500           |
| GR3155A  | 0.875         | 22.2 | 0.125              | 3.2  | 0.625 | 15.88 | 1.125 | 28.58 | 0.375                 | 9.53 | 2400           |
| GR3100A  | 0.875         | 22.2 | 0.188              | 4.8  | 0.563 | 14.3  | 1.063 | 27.0  | 0.438                 | 11.1 | 2500           |
| GR3135A  | 0.875         | 22.2 | 0.188              | 4.8  | 0.625 | 15.9  | 1.125 | 28.6  | 0.438                 | 11.1 | 2000           |
| GR3114A  | 0.875         | 22.2 | 0.250              | 6.4  | 0.625 | 15.9  | 1.125 | 28.6  | 0.500                 | 12.7 | 1500           |
| GR3101A  | 0.875         | 22.2 | 0.375              | 9.5  | 0.563 | 14.3  | 1.063 | 27.0  | 0.625                 | 15.9 | 1500           |
| GR3342A  | 0.969         | 24.6 | 0.375              | 9.5  | 0.688 | 17.5  | 1.313 | 33.3  | 0.625                 | 15.9 | 1000           |
| GR3068A  | 1.000         | 25.4 | 0.063              | 1.6  | 0.688 | 17.5  | 1.313 | 33.3  | 0.375                 | 9.5  | 1500           |
| GR3156A  | 1.000         | 25.4 | 0.125              | 3.2  | 0.688 | 17.5  | 1.313 | 33.3  | 0.438                 | 11.1 | 1500           |
| GR3136A  | 1.000         | 25.4 | 0.188              | 4.8  | 0.688 | 17.5  | 1.313 | 33.3  | 0.500                 | 12.7 | 1500           |
| GR3115A  | 1.000         | 25.4 | 0.250              | 6.4  | 0.688 | 17.5  | 1.313 | 33.3  | 0.563                 | 14.3 | 1200           |
| GR3390A  | 1.000         | 25.4 | 0.250              | 6.4  | 0.875 | 22.2  | 1.250 | 31.8  | 0.625                 | 15.9 | 1000           |
| GR3219A  | 1.000         | 25.4 | 0.266              | 6.8  | 0.500 | 12.7  | 1.375 | 34.9  | 0.500                 | 12.7 | 1100           |
| GR3031A  | 1.063         | 27.0 | 0.063              | 1.6  | 0.750 | 19.1  | 1.375 | 34.9  | 0.375                 | 9.5  | 1000           |
| GR3157A  | 1.063         | 27.0 | 0.125              | 3.2  | 0.750 | 19.1  | 1.375 | 34.9  | 0.438                 | 11.1 | 1400           |
| GR3137A  | 1.063         | 27.0 | 0.188              | 4.8  | 0.750 | 19.1  | 1.375 | 34.9  | 0.500                 | 12.7 | 1000           |
| GR3116A  | 1.063         | 27.0 | 0.250              | 6.4  | 0.750 | 19.1  | 1.375 | 34.9  | 0.563                 | 14.3 | 1200           |
| GR3246A  | 1.188         | 30.2 | 0.141              | 3.6  | 0.875 | 22.2  | 1.375 | 34.9  | 0.406                 | 10.3 | 1800           |
| GR3158A  | 1.250         | 31.8 | 0.125              | 3.2  | 0.750 | 19.1  | 1.625 | 41.3  | 0.313                 | 7.9  | 1300           |
| GR3160A  | 1.250         | 31.8 | 0.125              | 3.2  | 0.875 | 22.2  | 1.625 | 41.3  | 0.500                 | 12.7 | 850            |
| GR3259A  | 1.250         | 31.8 | 0.125              | 3.2  | 0.875 | 22.2  | 1.562 | 39.7  | 0.750                 | 19.1 | 550            |
| GR3138A  | 1.250         | 31.8 | 0.188              | 4.8  | 0.875 | 22.2  | 1.625 | 41.3  | 0.563                 | 14.3 | 750            |
| GR3117A  | 1.250         | 31.8 | 0.250              | 6.4  | 0.750 | 19.1  | 1.625 | 41.3  | 0.438                 | 11.1 | 1000           |
| GR3118A  | 1.250         | 31.8 | 0.250              | 6.4  | 0.875 | 22.2  | 1.625 | 41.3  | 0.625                 | 15.9 | 800            |
| GR3062A  | 1.250         | 31.8 | 0.250              | 6.4  | 1.000 | 25.4  | 1.500 | 38.1  | 0.500                 | 12.7 | 1000           |
| GR3410A  | 1.250         | 31.8 | 0.470              | 11.9 | 0.750 | 19.1  | 1.500 | 38.1  | 0.660                 | 16.8 | 600            |
| GR3072A  | 1.375         | 34.9 | 0.063              | 1.6  | 1.000 | 25.4  | 1.750 | 44.5  | 0.438                 | 11.1 | 700            |
| GR3161A  | 1.375         | 34.9 | 0.125              | 3.2  | 1.000 | 25.4  | 1.750 | 44.5  | 0.500                 | 12.7 | 700            |
| GR3139A  | 1.375         | 34.9 | 0.188              | 4.8  | 1.000 | 25.4  | 1.750 | 44.5  | 0.563                 | 14.3 | 500            |
| GR3119A  | 1.375         | 34.9 | 0.250              | 6.4  | 1.000 | 25.4  | 1.750 | 44.5  | 0.625                 | 15.9 | 500            |
| GR3064A  | 1.500         | 38.1 | 0.063              | 1.6  | 1.125 | 28.6  | 1.875 | 47.6  | 0.375                 | 9.5  | 700            |
| GR3180A  | 1.500         | 38.1 | 0.156              | 4.0  | 1.188 | 30.2  | 1.750 | 44.5  | 0.406                 | 10.3 | 800            |
| GR3262A  | 1.500         | 38.1 | 0.250              | 6.4  | 1.250 | 31.8  | 2.000 | 50.8  | 0.516                 | 13.1 | 500            |
| GR3267A  | 1.500         | 38.1 | 0.250              | 6.4  | 1.250 | 31.8  | 1.750 | 44.5  | 0.500                 | 12.7 | 600            |
| GR3087A  | 1.625         | 41.3 | 0.063              | 1.6  | 0.875 | 22.2  | 2.000 | 50.8  | 0.438                 | 11.1 | 600            |
| GR3383A  | 1.625         | 41.3 | 0.125              | 3.2  | 1.375 | 34.9  | 1.875 | 47.6  | 0.406                 | 10.3 | 750            |
| GR3266A  | 1.625         | 41.3 | 0.188              | 4.8  | 1.250 | 31.8  | 1.875 | 47.6  | 0.500                 | 12.7 | 700            |
| GR3173A  | 1.703         | 43.3 | 0.516              | 13.1 | 1.500 | 38.1  | 2.094 | 53.2  | 0.752                 | 19.1 | 400            |
| GR3073A  | 1.750         | 44.5 | 0.063              | 1.6  | 1.500 | 38.1  | 2.125 | 54.0  | 0.438                 | 11.1 | 500            |
| GR3409A  | 1.750         | 44.5 | 0.075              | 1.9  | 1.625 | 41.3  | 2.100 | 53.3  | 0.260                 | 6.6  | 900            |
| GR3163A  | 1.750         | 44.5 | 0.125              | 3.2  | 1.500 | 38.1  | 2.125 | 54.0  | 0.500                 | 12.7 | 600            |
| GR3141A  | 1.750         | 44.5 | 0.188              | 4.8  | 1.500 | 38.1  | 2.125 | 54.0  | 0.563                 | 14.3 | 500            |
| GR3121A  | 1.750         | 44.5 | 0.250              | 6.4  | 1.500 | 38.1  | 2.125 | 54.0  | 0.625                 | 15.9 | 400            |
| GR3295A  | 1.750         | 44.5 | 0.375              | 9.5  | 1.500 | 38.1  | 2.125 | 54.0  | 0.750                 | 19.1 | 300            |
| GR3301A  | 2.000         | 50.8 | 0.094              | 2.4  | 1.500 | 38.1  | 2.375 | 60.3  | 0.375                 | 9.5  | 450            |
| GR3239A  | 2.000         | 50.8 | 0.188              | 4.8  | 1.625 | 41.3  | 2.250 | 57.2  | 0.750                 | 19.1 | 600            |
| GR3296A  | 2.000         | 50.8 | 0.250              | 6.4  | 1.750 | 44.5  | 2.500 | 63.5  | 0.531                 | 13.5 | 300            |
| GR3334A  | 2.000         | 50.8 | 0.250              | 6.4  | 1.750 | 44.5  | 2.500 | 63.5  | 0.560                 | 14.2 | 300            |
| GR3145A  | 2.500         | 63.5 | 0.063              | 1.6  | 2.125 | 54.0  | 2.875 | 73.0  | 0.438                 | 11.1 | 300            |
| GR3318A  | 2.500         | 63.5 | 0.250              | 6.4  | 2.000 | 50.8  | 3.000 | 76.2  | 0.563                 | 14.3 | 200            |
| GR3404A  | 2.500         | 63.5 | 0.250              | 6.4  | 2.250 | 57.2  | 3.000 | 76.2  | 0.625                 | 15.9 | 175            |
| GR3405A  | 2.500         | 63.5 | 0.328              | 8.3  | 2.250 | 57.2  | 3.000 | 76.2  | 0.719                 | 18.3 | 175            |
| GR3406A  | 2.500         | 63.5 | 0.375              | 9.5  | 2.250 | 57.2  | 3.000 | 76.2  | 0.750                 | 19.1 | 175            |



Metric Hole Grommet



| Item No. |        | Mounting Hole d2 | Panel Hole Thickness h |      |      |      |                |
|----------|--------|------------------|------------------------|------|------|------|----------------|
| PVC      | EPDM   | mm               | mm                     | d1   | D    | H    | Bulk Pack Qty. |
| 498021   | 498062 | 5.0              | 1.0                    | 2.0  | 8.0  | 4.0  | 1000           |
| 498022   | 498063 | 5.0              | 1.5                    | 2.0  | 8.0  | 4.5  | 1000           |
| 498023   | 498064 | 5.0              | 2.0                    | 2.0  | 8.0  | 5.0  | 1000           |
| 498024   | 498065 | 5.0              | 1.0                    | 3.0  | 8.0  | 4.0  | 1000           |
| 498025   | 498066 | 5.0              | 1.5                    | 3.0  | 8.0  | 4.5  | 1000           |
| 498026   | 498067 | 5.0              | 2.0                    | 3.0  | 8.0  | 5.0  | 1000           |
| 498027   | 498068 | 7.0              | 1.5                    | 3.0  | 10.0 | 6.0  | 500            |
| 498028   | 498070 | 8.0              | 1.0                    | 4.0  | 11.0 | 8.0  | 500            |
| 498029   | 498071 | 8.0              | 2.0                    | 4.0  | 11.0 | 6.0  | 500            |
| 498030   | 498072 | 8.0              | 3.0                    | 4.0  | 11.0 | 7.0  | 500            |
| 498031   | 498073 | 8.0              | 1.0                    | 6.0  | 11.0 | 5.0  | 500            |
| 498032   | 498074 | 8.0              | 2.0                    | 6.0  | 11.0 | 6.0  | 500            |
| —        | 498075 | 9.0              | 1.0                    | 6.0  | 12.0 | 5.0  | 500            |
| —        | 498076 | 9.0              | 1.5                    | 6.0  | 12.0 | 5.5  | 500            |
| —        | 498077 | 9.0              | 2.0                    | 6.0  | 12.0 | 6.0  | 500            |
| —        | 498078 | 9.0              | 3.0                    | 6.0  | 12.0 | 7.0  | 500            |
| —        | 498079 | 9.0              | 4.0                    | 6.0  | 12.0 | 8.0  | 500            |
| 498033   | 498080 | 10.0             | 1.0                    | 6.0  | 14.0 | 6.0  | 500            |
| 498034   | 498081 | 10.0             | 1.5                    | 6.0  | 14.0 | 6.5  | 500            |
| 498035   | 498082 | 10.0             | 2.0                    | 6.0  | 14.0 | 7.0  | 500            |
| 498036   | 498083 | 10.0             | 3.0                    | 6.0  | 14.0 | 8.0  | 500            |
| 498037   | 498084 | 10.0             | 1.0                    | 8.0  | 14.0 | 6.0  | 500            |
| 498038   | 498085 | 10.0             | 1.5                    | 8.0  | 14.0 | 6.5  | 500            |
| 498039   | 498086 | 10.0             | 2.0                    | 8.0  | 14.0 | 7.0  | 500            |
| 498040   | 498087 | 10.0             | 3.0                    | 8.0  | 14.0 | 8.0  | 500            |
| —        | 498088 | 11.0             | 1.0                    | 8.0  | 16.0 | 6.0  | 250            |
| —        | 498089 | 11.0             | 2.0                    | 8.0  | 16.0 | 7.0  | 250            |
| —        | 498090 | 11.0             | 3.0                    | 8.0  | 16.0 | 8.0  | 250            |
| —        | 498091 | 11.0             | 4.0                    | 8.0  | 16.0 | 9.0  | 250            |
| 498041   | 498092 | 12.0             | 1.0                    | 8.0  | 16.0 | 6.0  | 250            |
| 498042   | 498093 | 12.0             | 2.0                    | 8.0  | 16.0 | 7.0  | 250            |
| 498043   | 498094 | 12.0             | 3.0                    | 8.0  | 16.0 | 8.0  | 250            |
| 498044   | 498095 | 12.0             | 4.0                    | 8.0  | 16.0 | 9.0  | 250            |
| 498045   | 498096 | 12.0             | 1.0                    | 10.0 | 16.0 | 6.0  | 250            |
| 498046   | 498097 | 12.0             | 1.5                    | 10.0 | 16.0 | 6.5  | 250            |
| 498047   | 498098 | 12.0             | 2.0                    | 10.0 | 16.0 | 7.0  | 250            |
| 498048   | 498099 | 12.0             | 3.0                    | 10.0 | 16.0 | 8.0  | 250            |
| —        | 498100 | 14.0             | 1.0                    | 11.0 | 18.0 | 6.0  | 250            |
| —        | 498101 | 14.0             | 2.0                    | 11.0 | 18.0 | 7.0  | 250            |
| —        | 498102 | 14.0             | 3.0                    | 11.0 | 18.0 | 8.0  | 250            |
| 498049   | 498103 | 15.0             | 1.0                    | 11.0 | 20.0 | 6.0  | 250            |
| 498050   | 498104 | 15.0             | 2.0                    | 11.0 | 20.0 | 7.0  | 250            |
| 498051   | 498105 | 15.0             | 3.0                    | 11.0 | 20.0 | 8.0  | 250            |
| 498052   | 498106 | 15.0             | 4.0                    | 11.0 | 20.0 | 9.0  | 250            |
| 498053   | 498107 | 18.0             | 1.0                    | 12.0 | 22.0 | 6.0  | 250            |
| 498054   | 498108 | 18.0             | 2.0                    | 12.0 | 22.0 | 7.0  | 250            |
| 498055   | 498109 | 18.0             | 3.0                    | 12.0 | 22.0 | 8.0  | 250            |
| 498056   | 498110 | 18.0             | 4.0                    | 12.0 | 22.0 | 9.0  | 250            |
| 498057   | 498111 | 22.0             | 1.0                    | 16.0 | 27.0 | 7.0  | 100            |
| 498058   | 498112 | 22.0             | 1.5                    | 16.0 | 27.0 | 7.5  | 100            |
| 498059   | 498113 | 22.0             | 2.0                    | 16.0 | 27.0 | 8.0  | 100            |
| 498060   | 498114 | 22.0             | 3.0                    | 16.0 | 27.0 | 9.0  | 100            |
| 498061   | 498115 | 22.0             | 4.0                    | 16.0 | 27.0 | 10.0 | 100            |
| —        | 198116 | 27.0             | 1.0                    | 21.0 | 34.0 | 9.0  | 50             |
| —        | 498117 | 27.0             | 2.0                    | 21.0 | 34.0 | 10.0 | 50             |
| —        | 498118 | 27.0             | 3.0                    | 21.0 | 34.0 | 11.0 | 50             |
| —        | 498119 | 27.0             | 4.0                    | 21.0 | 34.0 | 12.0 | 50             |
| —        | 498120 | 40.0             | 1.0                    | 31.0 | 48.0 | 12.0 | 25             |
| —        | 498121 | 40.0             | 2.0                    | 31.0 | 48.0 | 13.0 | 25             |
| —        | 498122 | 40.0             | 3.0                    | 31.0 | 48.0 | 14.0 | 25             |
| —        | 498123 | 40.0             | 4.0                    | 31.0 | 48.0 | 15.0 | 25             |
| —        | 498124 | 52.0             | 1.0                    | 41.0 | 60.0 | 13.0 | 10             |
| —        | 498125 | 52.0             | 2.0                    | 41.0 | 60.0 | 14.0 | 10             |
| —        | 498126 | 52.0             | 3.0                    | 41.0 | 60.0 | 15.0 | 10             |
| —        | 498127 | 52.0             | 4.0                    | 41.0 | 60.0 | 16.0 | 10             |

Specifications:

- Material: See Table
- Color: Black

Features:

- Protects wires, cables, tubing, and hoses
- Installs instantly by simply snapping into hole
- Excellent adhesion, designed to fit standard sheet metal holes
- EPDM is a heat resistant material for use in extreme temperature environments: -40° - 257°F



## GROMMETS & BUSHINGS

### GRQ/QFG Series

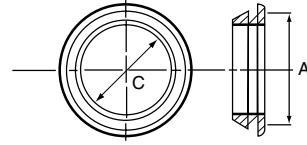
#### Quick Fit Flexible Grommet

##### Specifications:

- Material: Elastomer
- Color: Black

##### Features:

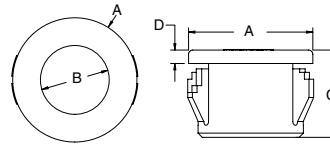
- Protects wires, cables, tubing and hoses
- Quickly snaps into hole



| Item No.                    |                             |                             |                             | Mounting Hole ØA |           | C ID Ref. |      | Bulk Pack Qty. |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------|-----------|-----------|------|----------------|
| Panel Thickness 0.059 (1.5) | Panel Thickness 0.079 (2.0) | Panel Thickness 0.118 (3.0) | Panel Thickness 0.138 (3.5) | in               | mm        | in        | mm   |                |
| 16200                       | 16210                       | 16220                       | —                           | 0.394            | 10.0      | 0.236     | 6.0  | 5000           |
| QFG-16200                   | —                           | QFG-16220                   | —                           | 0.394            | 10.0      | 0.236     | 6.0  | 1000           |
| 16201                       | 16211                       | 16221                       | —                           | 0.433            | 11.0      | 0.276     | 7.0  | 10000          |
| QFG-16201                   | —                           | —                           | —                           | 0.433            | 11.0      | 0.276     | 7.0  | 1000           |
| 16202                       | 16212                       | 16222                       | —                           | 0.472            | 12.0      | 0.315     | 8.0  | 10000          |
| —                           | —                           | QFG-16222                   | —                           | 0.472            | 12.0      | 0.315     | 8.0  | 1000           |
| 16203                       | 16213                       | 16223                       | —                           | 0.551            | 14.0      | 0.394     | 10.0 | 10000          |
| QFG-16203                   | —                           | QFG-16223                   | —                           | 0.551            | 14.0      | 0.394     | 10.0 | 1000           |
| 16204                       | 16214                       | 16224                       | —                           | 0.630            | 16.0      | 0.472     | 12.0 | 10000          |
| QFG-16204                   | —                           | QFG-16224                   | —                           | 0.630            | 16.0      | 0.472     | 12.0 | 1000           |
| 16205                       | 16215                       | 16225                       | —                           | 0.709            | 18.0      | 0.551     | 14.0 | 10000          |
| QFG-16205                   | —                           | —                           | —                           | 0.709            | 18.0      | 0.551     | 14.0 | 1000           |
| —                           | —                           | —                           | QFG-1                       | 0.728-0.787      | 18.5-20.0 | 0.512     | 13.0 | 1000           |
| 16206                       | 16216                       | 16226                       | —                           | 0.787            | 20.0      | 0.630     | 16.0 | 4000           |
| 16207                       | 16217                       | 16227                       | —                           | 0.866            | 22.0      | 0.709     | 18.0 | 4000           |
| QFG-16207                   | —                           | —                           | —                           | 0.866            | 22.0      | 0.709     | 18.0 | 1000           |
| —                           | —                           | —                           | QFG-2                       | 0.984-1.024      | 25.0-26.0 | 0.709     | 18.0 | 1000           |
| 16208                       | 16218                       | 16228                       | —                           | 1.024            | 26.0      | 0.866     | 22.0 | 4000           |
| —                           | —                           | QFG-16228                   | —                           | 1.024            | 26.0      | 0.866     | 22.0 | 1000           |
| 16209                       | 16219                       | 16229                       | —                           | 1.102            | 28.0      | 0.945     | 24.0 | 2000           |
| QFG-16209                   | —                           | QFG-16229                   | —                           | 1.102            | 28.0      | 0.945     | 24.0 | 1000           |

### PGSB/BSI Series

#### Closed Insulation Bushing

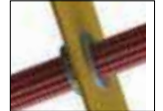


##### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

##### Features:

- Easy to snap into common panel thicknesses
- Protects wires, cables and tubing from sharp edges of sheet metal holes

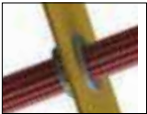
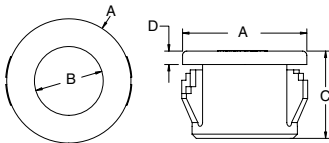


| Item No.  | Approval | Ø Mounting Hole |      | Panel Thickness |           | OD A  |      | ID B  |      | Overall Height C |      | Head Height D |     | Bulk Pack Qty. |
|-----------|----------|-----------------|------|-----------------|-----------|-------|------|-------|------|------------------|------|---------------|-----|----------------|
|           |          | in              | mm   | in              | mm        | in    | mm   | in    | mm   | in               | mm   | in            | mm  |                |
| PGSB-0305 | UL       | 0.189           | 4.8  | 0.063 - 0.067   | 1.6 - 1.7 | 0.260 | 6.5  | 0.125 | 3.2  | 0.240            | 6.0  | 0.051         | 1.4 | 1000           |
| PGSB-1    | UL       | 0.250           | 6.4  | 0.062           | 1.6       | 0.312 | 7.9  | 0.125 | 3.2  | 0.312            | 7.9  | 0.063         | 1.6 | 1000           |
| PGSB-2    | UL       | 0.312           | 7.9  | 0.062           | 1.6       | 0.375 | 9.5  | 0.187 | 4.7  | 0.312            | 7.9  | 0.063         | 1.6 | 1000           |
| PGSB-3    | UL       | 0.312           | 7.9  | 0.062           | 1.6       | 0.375 | 9.5  | 0.240 | 6.1  | 0.237            | 6.0  | 0.050         | 1.3 | 1000           |
| PGSB-4    | UL       | 0.375           | 9.5  | 0.031 - 0.125   | 0.8 - 3.2 | 0.468 | 11.9 | 0.187 | 4.7  | 0.406            | 10.3 | 0.055         | 1.4 | 1000           |
| PGSB-5    | UL       | 0.375           | 9.5  | 0.031 - 0.125   | 0.8 - 3.2 | 0.468 | 11.9 | 0.250 | 6.4  | 0.406            | 10.3 | 0.055         | 1.4 | 1000           |
| PGSB-0710 | UL       | 0.394           | 10.0 | 0.031 - 0.125   | 0.8 - 1.6 | 0.472 | 12.0 | 0.284 | 7.2  | 0.260            | 6.6  | 0.051         | 1.3 | 1000           |
| PGSB-6    | UL       | 0.437           | 11.1 | 0.031 - 0.125   | 0.8 - 3.2 | 0.531 | 13.5 | 0.270 | 6.9  | 0.406            | 10.3 | 0.055         | 1.4 | 500            |
| PGSB-7    | UL       | 0.437           | 11.1 | 0.031 - 0.125   | 0.8 - 3.2 | 0.531 | 13.5 | 0.312 | 7.9  | 0.406            | 10.3 | 0.055         | 1.4 | 500            |
| PGSB-8    | UL       | 0.437           | 11.1 | 0.031 - 0.125   | 0.8 - 3.2 | 0.531 | 13.5 | 0.243 | 6.4  | 0.406            | 10.3 | 0.055         | 1.4 | 500            |
| PGSB-9    | UL       | 0.468           | 11.9 | 0.062           | 1.6       | 0.531 | 13.5 | 0.343 | 8.7  | 0.250            | 6.4  | 0.050         | 1.3 | 500            |
| PGSB-10   | UL       | 0.500           | 12.7 | 0.031 - 0.125   | 0.8 - 3.2 | 0.578 | 14.7 | 0.250 | 6.4  | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-11   | UL       | 0.500           | 12.7 | 0.031 - 0.125   | 0.8 - 3.2 | 0.578 | 14.7 | 0.312 | 7.9  | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-12   | UL       | 0.500           | 12.7 | 0.062           | 1.6       | 0.562 | 14.3 | 0.375 | 9.5  | 0.250            | 6.4  | 0.063         | 1.6 | 500            |
| PGSB-1013 | UL       | 0.512           | 13.0 | 0.031 - 0.118   | 0.8       | 0.591 | 15.0 | 0.402 | 10.2 | 0.354            | 9.0  | 0.051         | 1.3 | 500            |
| PGSB-13   | UL       | 0.531           | 13.5 | 0.062           | 1.6       | 0.593 | 15.1 | 0.406 | 10.3 | 0.250            | 6.4  | 0.063         | 1.6 | 500            |
| PGSB-14   | UL       | 0.562           | 14.3 | 0.031 - 0.125   | 0.8 - 3.2 | 0.656 | 16.7 | 0.312 | 7.9  | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-15   | UL       | 0.562           | 14.3 | 0.031 - 0.125   | 0.8 - 3.2 | 0.656 | 16.7 | 0.391 | 9.9  | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-16   | UL       | 0.562           | 14.3 | 0.031 - 0.125   | 0.8 - 3.2 | 0.656 | 16.7 | 0.437 | 11.1 | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-17   | UL       | 0.625           | 15.9 | 0.031 - 0.125   | 0.8 - 3.2 | 0.718 | 18.2 | 0.250 | 6.4  | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-18   | UL       | 0.625           | 15.9 | 0.031 - 0.125   | 0.8 - 3.2 | 0.718 | 18.2 | 0.437 | 11.1 | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-19   | UL       | 0.625           | 15.9 | 0.062           | 1.6       | 0.703 | 17.9 | 0.500 | 12.7 | 0.250            | 6.4  | 0.063         | 1.6 | 500            |
| PGSB-1316 | UL       | 0.630           | 16.0 | 0.055 - 0.139   | 1.4 - 3.5 | 0.709 | 18.0 | 0.504 | 12.8 | 0.413            | 10.5 | 0.059         | 1.5 | 500            |
| PGSB-20   | UL       | 0.687           | 17.5 | 0.031 - 0.125   | 0.8 - 3.2 | 0.781 | 19.8 | 0.500 | 12.7 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-21   | UL       | 0.687           | 17.5 | 0.031 - 0.125   | 0.8 - 3.2 | 0.781 | 19.8 | 0.562 | 14.3 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-1519 | UL       | 0.748           | 19.0 | 0.039 - 0.130   | 1.3       | 0.854 | 21.7 | 0.602 | 15.3 | 0.433            | 11.0 | 0.059         | 1.5 | 200            |
| PGSB-22   | UL       | 0.750           | 19.1 | 0.031 - 0.125   | 0.8 - 3.2 | 0.843 | 21.4 | 0.500 | 12.7 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-23   | UL       | 0.750           | 19.1 | 0.031 - 0.125   | 0.8 - 3.2 | 0.843 | 21.4 | 0.562 | 14.3 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |

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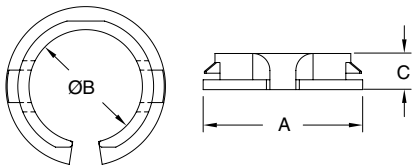


PGSB/BSI Series (continued)  
Closed Insulation Bushing



| Item No.  | Approval | Ø Mounting Hole |      | Panel Thickness |           | OD A  |      | ID B  |      | Overall Height C |      | Head Height D |     | Bulk Pack Qty. |
|-----------|----------|-----------------|------|-----------------|-----------|-------|------|-------|------|------------------|------|---------------|-----|----------------|
|           |          | in              | mm   | in              | mm        | in    | mm   | in    | mm   | in               | mm   | in            | mm  |                |
| PGSB-24   | UL       | 0.750           | 19.1 | 0.062           | 1.6       | 0.828 | 21.0 | 0.625 | 15.9 | 0.250            | 6.4  | 0.063         | 1.6 | 200            |
| PGSB-25   | UL       | 0.781           | 19.8 | 0.062           | 1.6       | 0.859 | 21.8 | 0.625 | 15.9 | 0.250            | 6.4  | 0.063         | 1.6 | 200            |
| PGSB-1822 | UL       | 0.866           | 22.0 | 0.035 - 0.091   | 0.9 - 2.3 | 0.976 | 24.8 | 0.717 | 18.2 | 0.453            | 11.5 | 0.059         | 1.5 | 500            |
| PGSB-26   | UL       | 0.875           | 22.2 | 0.031 - 0.125   | 0.8 - 3.2 | 0.953 | 24.2 | 0.500 | 12.7 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSB-27   | UL       | 0.875           | 22.2 | 0.031 - 0.125   | 0.8 - 3.2 | 0.953 | 24.2 | 0.562 | 14.3 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSB-28   | UL       | 0.875           | 22.2 | 0.031 - 0.125   | 0.8 - 3.2 | 0.953 | 24.2 | 0.625 | 15.9 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSB-29   | UL       | 0.875           | 22.2 | 0.031 - 0.125   | 0.8 - 3.2 | 0.953 | 24.2 | 0.687 | 17.5 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSB-30   | UL       | 0.875           | 22.2 | 0.062           | 1.6       | 0.937 | 23.8 | 0.750 | 19.1 | 0.250            | 6.4  | 0.063         | 1.6 | 200            |
| PGSB-31   | UL       | 1.000           | 25.4 | 0.031 - 0.125   | 0.8 - 3.2 | 1.125 | 28.6 | 0.766 | 19.5 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSB-32   | UL       | 1.097           | 27.9 | 0.031 - 0.125   | 0.8 - 3.2 | 1.218 | 31.0 | 0.812 | 20.6 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-33   | UL       | 1.097           | 27.9 | 0.031 - 0.125   | 0.8 - 3.2 | 1.218 | 31.0 | 0.875 | 22.2 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-34   | UL       | 1.097           | 27.9 | 0.031 - 0.125   | 0.8 - 3.2 | 1.218 | 31.0 | 0.937 | 23.8 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-2428 | UL       | 1.102           | 28.0 | 0.039 - 0.130   | 13.3      | 1.240 | 31.5 | 0.945 | 24.0 | 0.441            | 11.2 | 0.059         | 1.5 | 200            |
| PGSB-2530 | UL       | 1.181           | 30.0 | 0.039 - 0.122   | 13.1      | 1.319 | 33.5 | 0.984 | 25.0 | 0.453            | 11.5 | 0.071         | 1.8 | 100            |
| PGSB-35   | UL       | 1.250           | 31.8 | 0.031 - 0.125   | 0.8 - 3.2 | 1.312 | 33.3 | 0.937 | 23.8 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-2634 | UL       | 1.347           | 34.2 | 0.039 - 0.126   | 13.2      | 1.496 | 38.0 | 1.031 | 26.2 | 0.453            | 11.5 | 0.059         | 1.5 | 100            |
| PGSB-36   | UL       | 1.375           | 34.9 | 0.031 - 0.125   | 0.8 - 3.2 | 1.468 | 37.3 | 1.000 | 25.4 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-37   | UL       | 1.500           | 38.1 | 0.031 - 0.125   | 0.8 - 3.2 | 1.609 | 40.9 | 1.062 | 27.0 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-38   | UL       | 1.500           | 38.1 | 0.031 - 0.125   | 0.8 - 3.2 | 1.609 | 40.9 | 1.125 | 28.6 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-39   | UL       | 1.500           | 38.1 | 0.031 - 0.125   | 0.8 - 3.2 | 1.609 | 40.9 | 1.312 | 33.3 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-40   | UL       | 1.750           | 44.5 | 0.031 - 0.125   | 0.8 - 3.2 | 1.875 | 47.6 | 1.375 | 34.9 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-41   | UL       | 2.000           | 50.8 | 0.031 - 0.125   | 0.8 - 3.2 | 2.125 | 54.0 | 1.640 | 41.7 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-42   | UL       | 2.000           | 50.8 | 0.031 - 0.125   | 0.8 - 3.2 | 2.125 | 54.0 | 1.750 | 44.5 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSB-43   | UL       | 2.250           | 57.2 | 0.250           | 6.4       | 2.480 | 63.0 | 1.850 | 47.0 | 0.720            | 18.2 | 0.063         | 1.6 | 100            |
| BSI047A   | UL       | 3.000           | 76.2 | 0.250           | 6.4       | 3.160 | 80.3 | 2.470 | 62.7 | .720             | 18.2 | —             | —   | 350            |

PGSA Series  
Shallow Open Insulation Bushing



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Molded with shallow overall height for applications with limited space
- Open design allows bushing to be assembled into holes that already contain a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes

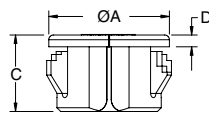
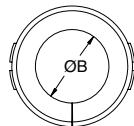
| Item No.    | Approval | Mounting Hole Ø |      | Panel Thickness Range |           | OD A Ref. |      | ID B  |      | Overall Height C |     | Bulk Pack Qty. |
|-------------|----------|-----------------|------|-----------------------|-----------|-----------|------|-------|------|------------------|-----|----------------|
|             |          | in              | mm   | in                    | mm        | in        | mm   | in    | mm   | in               | mm  |                |
| PGSA-0407A  | UL       | 0.276           | 7.0  | 0.016 - 0.039         | 0.4 - 1.0 | 0.410     | 10.4 | 0.190 | 4.8  | 0.200            | 5.0 | 1000           |
| PGSA-1013A  | UL       | 0.512           | 13.0 | 0.039 - 0.059         | 1.0 - 1.5 | 0.640     | 16.2 | 0.360 | 9.2  | 0.210            | 5.3 | 500            |
| PGSA-1316A  | UL       | 0.630           | 16.0 | 0.039 - 0.055         | 1.0 - 1.4 | 0.760     | 19.4 | 0.480 | 12.2 | 0.210            | 5.4 | 500            |
| PGSA-1519A  | UL       | 0.748           | 19.0 | 0.039 - 0.059         | 1.0 - 1.5 | 0.890     | 22.7 | 0.560 | 14.3 | 0.220            | 5.7 | 500            |
| PGSA-1822A  | UL       | 0.866           | 22.0 | 0.031 - 0.063         | 0.8 - 1.6 | 1.000     | 25.5 | 0.690 | 17.6 | 0.220            | 5.6 | 500            |
| PGSA-2024A1 | UL       | 0.945           | 24.0 | 0.031 - 0.047         | 0.8 - 1.2 | 1.060     | 27.0 | 0.770 | 19.5 | 0.210            | 5.3 | 500            |
| PGSA-2024A  | UL       | 0.945           | 24.0 | 0.039 - 0.063         | 1.0 - 1.6 | 1.060     | 27.0 | 0.770 | 19.5 | 0.210            | 5.3 | 500            |
| PGSA-2327A  | UL       | 1.067           | 27.1 | 0.016 - 0.039         | 0.4 - 1.0 | 1.380     | 35.1 | 0.900 | 22.9 | 0.240            | 6.0 | 200            |
| PGSA-2529A  | UL       | 1.142           | 29.0 | 0.016 - 0.043         | 0.4 - 1.1 | 1.380     | 35.1 | 0.970 | 24.5 | 0.280            | 7.0 | 200            |



## BUSHINGS

### PGSB-A Series

#### Standard Open Insulation Bushing



#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

#### Features:

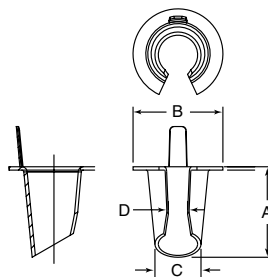
- Easy to push in design locks into place at common panel thicknesses
- Split design allows bushing to be assembled into holes that already contained a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes



| Item No.   | Approval | Mounting Hole |      | Panel Thickness Range |           | OD A Ref. |      | ID B  |      | Overall Height C |      | Head Height D |     | Bulk Pack Qty. |
|------------|----------|---------------|------|-----------------------|-----------|-----------|------|-------|------|------------------|------|---------------|-----|----------------|
|            |          | in            | mm   | in                    | mm        | in        | mm   | in    | mm   | in               | mm   | in            | mm  |                |
| PGSB-0609A | RU       | 0.375         | 9.5  | 0.028 - 0.067         | 0.7 - 1.7 | 0.450     | 11.4 | 0.260 | 6.6  | 0.260            | 6.5  | 0.051         | 1.3 | 1000           |
| PGSB-1A    | RU       | 0.375         | 9.5  | 0.031 - 0.125         | 0.8 - 3.2 | 0.420     | 10.7 | 0.265 | 6.7  | 0.390            | 9.9  | 0.051         | 1.3 | 1000           |
| PGSB-2A    | RU       | 0.437         | 11.1 | 0.031 - 0.125         | 0.8 - 3.2 | 0.50      | 12.7 | 0.312 | 7.9  | 0.406            | 10.3 | 0.063         | 1.6 | 1000           |
| PGSB-1013A | RU       | 0.512         | 13.0 | 0.031 - 0.138         | 0.8 - 3.5 | 0.590     | 14.9 | 0.350 | 9.0  | 0.410            | 10.5 | 0.059         | 1.5 | 500            |
| PGSB-3A    | RU       | 0.562         | 14.3 | 0.031 - 0.125         | 0.8 - 3.2 | 0.640     | 16.3 | 0.390 | 9.9  | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSB-1216A | RU       | 0.650         | 16.5 | 0.028 - 0.130         | 0.7 - 3.3 | 0.730     | 18.6 | 0.480 | 12.3 | 0.390            | 10.0 | 0.039         | 1.0 | 500            |
| PGSB-1316A | RU       | 0.630         | 16.0 | 0.047 - 0.138         | 1.2 - 3.5 | 0.710     | 18.0 | 0.410 | 10.5 | 0.410            | 10.5 | 0.063         | 1.6 | 500            |
| PGSB-1519A | RU       | 0.748         | 19.0 | 0.047 - 0.130         | 1.2 - 3.3 | 0.810     | 20.6 | 0.570 | 14.5 | 0.430            | 11.0 | 0.051         | 1.3 | 200            |
| PGSB-1822A | RU       | 0.866         | 22.0 | 0.039 - 0.138         | 1.0 - 3.5 | 0.980     | 24.8 | 0.680 | 17.3 | 0.450            | 11.5 | 0.063         | 1.6 | 200            |
| PGSB-9A    | RU       | 0.984         | 25.0 | 0.031 - 0.118         | 0.8 - 3.0 | 1.039     | 26.4 | 0.803 | 20.4 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-4A    | RU       | 1.000         | 25.4 | 0.031 - 0.125         | 0.8 - 3.2 | 1.047     | 26.6 | 0.812 | 20.6 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-5A    | RU       | 1.093         | 27.8 | 0.031 - 0.125         | 0.8 - 3.2 | 1.156     | 29.4 | 0.875 | 22.2 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-6A    | RU       | 1.250         | 31.8 | 0.031 - 0.125         | 0.8 - 3.2 | 1.343     | 34.1 | 1.046 | 26.6 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-7A    | RU       | 1.375         | 34.9 | 0.031 - 0.125         | 0.8 - 3.2 | 1.468     | 37.3 | 1.171 | 29.7 | 0.406            | 10.3 | 0.063         | 1.6 | 200            |
| PGSB-8A    | RU       | 1.500         | 38.1 | 0.031 - 0.125         | 0.8 - 3.2 | 1.578     | 40.1 | 1.250 | 31.7 | 0.421            | 10.7 | 0.063         | 1.6 | 200            |

### ASB Series

#### Armor Bushing



#### Specifications:

- Material: Polypropylene
- Color: Red

#### Features:

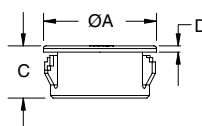
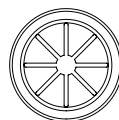
- Fits armored cable and flexible metal conduit sizes
- Features high dielectric strength and assures insulation on all sharp edges



| Item No. | Approvals | Size | A     |       | B     |       | C     |       | D     |      | Cable Size                   | Trade Size | Bulk Pack Qty. |
|----------|-----------|------|-------|-------|-------|-------|-------|-------|-------|------|------------------------------|------------|----------------|
|          |           |      | in    | mm    | in    | mm    | in    | mm    | in    | mm   |                              |            |                |
| ASB0A    | RU        | 0    | 0.560 | 14.22 | 0.671 | 17.04 | 0.380 | 9.650 | 0.312 | 7.92 | 14/2, 14/3, 12/2             | 5/16       | 30000          |
| ASB1A    | RU        | 1    | 0.650 | 16.51 | 0.671 | 17.04 | 0.450 | 11.43 | 0.312 | 7.92 | 14/4, 12/3, 6/1, 4/1         | 3/8        | 20000          |
| ASB2A    | RU        | 2    | 0.610 | 15.49 | 0.859 | 21.82 | 0.580 | 14.73 | 0.125 | 3.18 | 12/4, 10/2, 10/3, 2/1        | 7/16       | 15000          |
| ASB3A    | RU        | 3    | 0.670 | 17.02 | 1.046 | 26.57 | 0.790 | 20.07 | 0.109 | 2.77 | 10/4, 8/2, 8/3, 1/1          | 1/2        | 7500           |
| ASB4A    | RU        | 4    | 0.830 | 21.08 | 1.266 | 32.15 | 1.000 | 25.40 | 0.156 | 3.96 | 8/4, 6/4, 6/3, 6/2, 4/3, 4/2 | 3/4        | 4000           |

### PGSD Series

#### Universal Bushing



#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

#### Features:

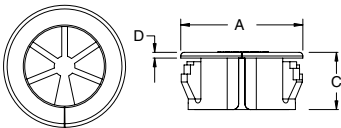
- Absorbs vibration and cushions and insulates bundles



| Item No. | Approval | Mounting Hole |      | Max Panel Thickness |     | OD A  |      | Max ID |      | Overall Height C |      | Head Height D |     | Bulk Pack Qty. |
|----------|----------|---------------|------|---------------------|-----|-------|------|--------|------|------------------|------|---------------|-----|----------------|
|          |          | in            | mm   | in                  | mm  | in    | mm   | in     | mm   | in               | mm   | in            | mm  |                |
| PGSD-1   | RU       | 0.500         | 12.7 | 0.062               | 1.6 | 0.600 | 15.2 | 0.312  | 7.9  | 0.250            | 6.4  | 0.063         | 1.6 | 500            |
| PGSD-5   | RU       | 0.500         | 12.7 | 0.125               | 3.2 | 0.600 | 15.2 | 0.312  | 7.9  | 0.385            | 9.8  | 0.041         | 1.0 | 500            |
| PGSD-2   | RU       | 0.625         | 15.9 | 0.062               | 1.6 | 0.729 | 18.5 | 0.437  | 11.1 | 0.250            | 6.4  | 0.063         | 1.6 | 500            |
| PGSD-6   | RU       | 0.625         | 15.9 | 0.125               | 3.2 | 0.729 | 18.5 | 0.437  | 11.1 | 0.406            | 10.3 | 0.063         | 1.6 | 500            |
| PGSD-3   | RU       | 0.750         | 19.1 | 0.062               | 1.6 | 0.844 | 21.4 | 0.500  | 12.7 | 0.250            | 6.4  | 0.063         | 1.6 | 200            |
| PGSD-7   | RU       | 0.750         | 19.1 | 0.125               | 3.2 | 0.844 | 21.4 | 0.500  | 12.7 | 0.390            | 9.9  | 0.047         | 1.2 | 200            |
| PGSD-4   | RU       | 0.875         | 22.2 | 0.062               | 1.6 | 0.937 | 23.8 | 0.560  | 14.2 | 0.250            | 6.4  | 0.063         | 1.6 | 200            |
| PGSD-8   | RU       | 0.875         | 22.2 | 0.125               | 3.2 | 0.937 | 23.8 | 0.560  | 14.2 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSD-9   | RU       | 1.000         | 25.4 | 0.125               | 3.2 | 1.063 | 27.0 | 0.750  | 19.1 | 0.453            | 11.5 | 0.063         | 1.6 | 200            |
| PGSD-10  | RU       | 1.375         | 34.9 | 0.125               | 3.2 | 1.490 | 37.8 | 1.000  | 25.4 | 0.453            | 11.5 | 0.063         | 1.6 | 100            |
| PGSD-11  | RU       | 1.500         | 38.1 | 0.125               | 3.2 | 1.609 | 40.9 | 1.062  | 27.0 | 0.450            | 11.4 | 0.059         | 1.5 | 100            |



PGSC Series  
Open Universal Bushing



Specifications:

- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:

- Easy to push in design locks into place at common panel thicknesses
- Open design allows bushing to be assembled into holes that already contain a bundle
- Adjust to accept various diameters and shapes



| Item No.   | Approval | Mounting Hole |             | Max Panel Thickness |           | OD A  |      | Max ID |      | Overall Height C |      | Head Height D |     | Bulk Pack Qty. |
|------------|----------|---------------|-------------|---------------------|-----------|-------|------|--------|------|------------------|------|---------------|-----|----------------|
|            |          | in            | mm          | in                  | mm        | in    | mm   | in     | mm   | in               | mm   | in            | mm  |                |
| PGSC-1319A |          | 0.748 - 0.752 | 19.0 - 19.1 | 0.031 - 0.118       | 0.8 - 3.0 | 0.858 | 21.8 | 0.500  | 12.7 | 0.390            | 9.9  | 0.039         | 1.0 | 500            |
| PGSC-1422A |          | 0.874 - 0.882 | 22.2 - 22.4 | 0.031 - 0.118       | 0.8 - 3.0 | 0.937 | 23.8 | 0.563  | 14.3 | 0.453            | 11.5 | 0.039         | 1.0 | 200            |
| PGSC-1926A |          | 1.000 - 1.004 | 25.4 - 25.5 | 0.031 - 0.118       | 0.8 - 3.0 | 1.063 | 27.0 | 0.748  | 19.0 | 0.453            | 11.5 | 0.039         | 1.0 | 200            |
| PGSC-2128A |          | 1.095 - 1.102 | 27.8 - 28.0 | 0.031 - 0.118       | 0.8 - 3.0 | 1.161 | 29.5 | 0.815  | 20.7 | 0.453            | 11.5 | 0.039         | 1.0 | 200            |

GFA Series  
NAS1368 Flip Grommet

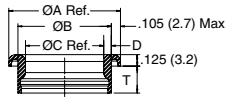
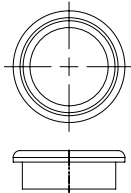


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Light Green

Features:

- Installed by inserting the “un-flipped” grommet into the hole (forming dies - not supplied by Essentra - on each side of the hole are pressed together until the grommet “flips” over itself, creating a flange on both sides of the hole)
- The dies can be attached to a toggle type clamp, a pneumatic tool, or a bolt and nut through the center
- Meets NAS 1368 Standard
- Protects wires, cable, and tubing passing through holes



| Item No. | NAS Part No. | Ø Mounting Hole |      | Max Recommended Panel Thickness |     | NAS1368 Panel Thickness Range |           | T     |      | A Ref. |      | B     |      | C Ref. |      | D     |     | Bulk Pack Qty. |
|----------|--------------|-----------------|------|---------------------------------|-----|-------------------------------|-----------|-------|------|--------|------|-------|------|--------|------|-------|-----|----------------|
|          |              | in              | mm   | in                              | mm  | in                            | mm        | in    | mm   | in     | mm   | in    | mm   | in     | mm   | in    | mm  |                |
| GFA-N4A  | NAS1368-N4A  | 0.375           | 9.5  | 0.030                           | 0.8 | 0.025 - 0.080                 | 0.6 - 2.0 | 0.235 | 6.0  | 0.567  | 14.4 | 0.367 | 9.3  | 0.251  | 6.4  | 0.058 | 1.5 | 100            |
| GFA-N4B  | NAS1368-N4B  | 0.375           | 9.5  | 0.100                           | 2.5 | 0.081 - 0.140                 | 2.1 - 3.6 | 0.295 | 7.5  | 0.567  | 14.4 | 0.367 | 9.3  | 0.251  | 6.4  | 0.058 | 1.5 | 100            |
| GFA-N6A  | NAS1368-N6A  | 0.500           | 12.7 | 0.030                           | 0.8 | 0.025 - 0.080                 | 0.6 - 2.0 | 0.235 | 6.0  | 0.692  | 17.6 | 0.492 | 12.5 | 0.376  | 9.6  | 0.058 | 1.5 | 100            |
| GFA-N6B  | NAS1368-N6B  | 0.500           | 12.7 | 0.090                           | 2.3 | 0.081 - 0.140                 | 2.1 - 3.6 | 0.295 | 7.5  | 0.692  | 17.6 | 0.492 | 12.5 | 0.376  | 9.6  | 0.058 | 1.5 | 100            |
| GFA-N6C  | NAS1368-N6C  | 0.500           | 12.7 | 0.160                           | 4.1 | 0.141 - 0.200                 | 3.6 - 5.1 | 0.360 | 9.1  | 0.692  | 17.6 | 0.492 | 12.5 | 0.376  | 9.6  | 0.058 | 1.5 | 100            |
| GFA-N8A  | NAS1368-N8A  | 0.625           | 15.9 | 0.030                           | 0.8 | 0.025 - 0.080                 | 0.6 - 2.0 | 0.235 | 6.0  | 0.815  | 20.7 | 0.615 | 15.6 | 0.499  | 12.7 | 0.058 | 1.5 | 100            |
| GFA-N8B  | NAS1368-N8B  | 0.625           | 15.9 | 0.090                           | 2.3 | 0.081 - 0.140                 | 2.1 - 3.6 | 0.295 | 7.5  | 0.815  | 20.7 | 0.615 | 15.6 | 0.499  | 12.7 | 0.058 | 1.5 | 100            |
| GFA-N10A | NAS1368-N10A | 0.781           | 19.8 | 0.030                           | 0.8 | 0.025 - 0.080                 | 0.6 - 2.0 | 0.235 | 6.0  | 0.971  | 24.7 | 0.771 | 19.6 | 0.605  | 15.4 | 0.083 | 2.1 | 100            |
| GFA-N10B | NAS1368-N10B | 0.781           | 19.8 | 0.080                           | 2.0 | 0.081 - 0.140                 | 2.1 - 3.6 | 0.295 | 7.5  | 0.971  | 24.7 | 0.771 | 19.6 | 0.605  | 15.4 | 0.083 | 2.1 | 100            |
| GFA-N10D | NAS1368-N10D | 0.781           | 19.8 | 0.210                           | 5.3 | 0.201 - 0.250                 | 5.1 - 6.4 | 0.420 | 10.7 | 0.971  | 24.7 | 0.771 | 19.6 | 0.605  | 15.4 | 0.083 | 2.1 | 100            |
| GFA-N12A | NAS1368-N12A | 0.906           | 23.0 | 0.020                           | 0.5 | 0.025 - 0.080                 | 0.6 - 2.0 | 0.235 | 6.0  | 1.096  | 27.8 | 0.896 | 22.8 | 0.730  | 18.5 | 0.083 | 2.1 | 100            |
| GFA-N12B | NAS1368-N12B | 0.906           | 23.0 | 0.070                           | 1.8 | 0.081 - 0.140                 | 2.1 - 3.6 | 0.295 | 7.5  | 1.096  | 27.8 | 0.896 | 22.8 | 0.730  | 18.5 | 0.083 | 2.1 | 100            |
| GFA-N14A | NAS1368-N14A | 1.031           | 26.2 | 0.020                           | 0.5 | 0.025 - 0.080                 | 0.6 - 2.0 | 0.235 | 6.0  | 1.221  | 31.0 | 1.021 | 25.9 | 0.855  | 21.7 | 0.083 | 2.1 | 100            |
| GFA-N14B | NAS1368-N14B | 1.031           | 26.2 | 0.070                           | 1.8 | 0.081 - 0.140                 | 2.1 - 3.6 | 0.295 | 7.5  | 1.221  | 31.0 | 1.021 | 25.9 | 0.855  | 21.7 | 0.083 | 2.1 | 100            |

SB Series  
Snub Bushing

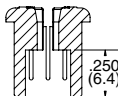
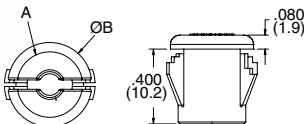


Specifications:

- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:

- Bushing opens to accept cable then closes firmly when installed into hole
- Provides insulation and slight strain relief



| Part Number | Panel Hole |      | Max Panel Thickness |     | ID    |     | Ø A   |      | Overall OD B |      | Bulk Pack Qty. |
|-------------|------------|------|---------------------|-----|-------|-----|-------|------|--------------|------|----------------|
|             | in         | mm   | in                  | mm  | in    | mm  | in    | mm   | in           | mm   |                |
| SB-1        | 0.375      | 9.5  | 0.125               | 3.2 | 0.150 | 3.8 | 0.360 | 9.1  | 0.450        | 11.4 | 500            |
| SB-2        | 0.437      | 11.1 | 0.125               | 3.2 | 0.220 | 5.6 | 0.430 | 10.9 | 0.550        | 14.0 | 500            |
| SB-3        | 0.500      | 12.7 | 0.125               | 3.2 | 0.280 | 7.1 | 0.490 | 12.4 | 0.630        | 16.0 | 500            |



## GROMMETS &amp; BUSHINGS

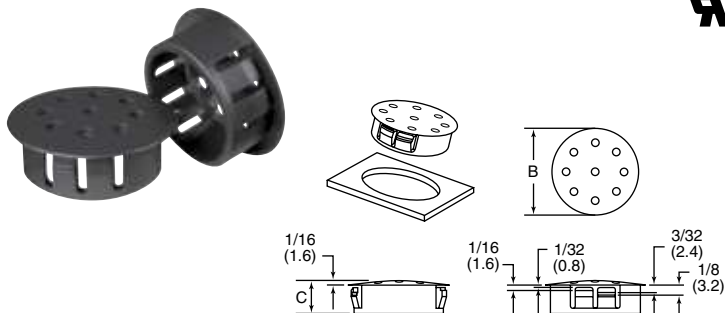
PLV Series  
Vented Locking Plug

## Specifications:

- Material: UL94 V-2 Heat-Stabilized Nylon
- Color: Black

## Features:

- Each part is designed to lock into multiple standard sheet metal thicknesses (1/64 to 1/8)
- Provides a clean and easy way to close optional wiring or production access holes
- Vents allow heat and emissions to escape



| Item No.  | Approvals                                                                                                                                                           | Ø Hole |      | Max Panel Thickness |     | Ø Head B |      | Thickness C |      | Bulk Pack Qty. |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------------------|-----|----------|------|-------------|------|----------------|
|           |                                                                                                                                                                     | in     | mm   | in                  | mm  | in       | mm   | in          | mm   |                |
| 62MP0750V |   | 0.750  | 19.1 | 0.125               | 3.2 | 0.906    | 23.0 | 0.406       | 10.3 | 1000           |
| 62MP0875V |   | 0.875  | 22.2 | 0.125               | 3.2 | 1.016    | 25.8 | 0.453       | 11.5 | 1000           |
| 62MP1000V |   | 1.000  | 25.4 | 0.125               | 3.2 | 1.203    | 30.6 | 0.453       | 11.5 | 500            |

GR67/LTG Series  
IP67 Liquid Tight Grommet

## Specifications:

- Material: EPDM
- Color: Grey (Black for LTG-199017)

## Features:

- Confirms to IP67 standard for watertight seal
- Acts as a blanking plug until cable is installed
- Designed to withstand vibration



| Item No.    | Fits  | Panel Hole |      | Panel Thickness |           | Cable Size    |             | Bulk Pack Qty. |
|-------------|-------|------------|------|-----------------|-----------|---------------|-------------|----------------|
|             |       | in         | mm   | in              | mm        | in            | mm          |                |
| LTG-199017  | PG-7  | 0.492      | 12.5 | 0.020 - 0.079   | 0.5 - 2.0 | 0.138 - 0.197 | 3.5 - 5.0   | 1000           |
| GR67464121A | PG-7  | 0.492      | 12.5 | 0.020 - 0.079   | 0.5 - 2.0 | 0.138 - 0.197 | 3.5 - 5.0   | 1000           |
| GR6739897A  | PG-9  | 0.630      | 16.0 | 0.039 - 0.157   | 1.0 - 4.0 | 0.197 - 0.276 | 5.0 - 7.0   | 1000           |
| GR6734715A  | PG-11 | 0.748      | 19.0 | 0.039 - 0.157   | 1.0 - 4.0 | 0.276 - 0.394 | 7.0 - 10.0  | 1000           |
| GR6734716A  | PG-16 | 0.906      | 23.0 | 0.039 - 0.157   | 1.0 - 4.0 | 0.394 - 0.551 | 10.0 - 14.0 | 1000           |
| GR6743021A  | PG-21 | 1.142      | 29.0 | 0.039 - 0.157   | 1.0 - 4.0 | 0.551 - 0.787 | 14.0 - 20.0 | 1000           |
| GR67464122A | PG-29 | 1.496      | 38.0 | 0.039 - 0.157   | 1.0 - 4.0 | 0.787 - 1.024 | 20.0 - 26.0 | 250            |
| GR67464123A | PG-36 | 1.890      | 48.0 | 0.039 - 0.157   | 1.0 - 4.0 | 1.024 - 1.378 | 26.0 - 35.0 | 250            |
| GR67M16A    | M16   | 0.650      | 16.5 | 0.039 - 0.157   | 1.0 - 4.0 | 0.197 - 0.354 | 5.0 - 9.0   | 1000           |
| GR67M20A    | M20   | 0.807      | 20.5 | 0.039 - 0.157   | 1.0 - 4.0 | 0.276 - 0.512 | 7.0 - 13.0  | 1000           |
| GR67M25A    | M25   | 1.004      | 25.5 | 0.059 - 0.157   | 1.5 - 4.0 | 0.394 - 0.670 | 10.0 - 17.0 | 1000           |
| GR67M32A    | M32   | 1.280      | 32.5 | 0.039 - 0.157   | 1.0 - 4.0 | 0.551 - 0.787 | 14.0 - 20.0 | 500            |
| GR67M40A    | M40   | 1.594      | 40.5 | 0.059 - 0.157   | 1.5 - 4.0 | 0.750 - 1.024 | 19.0 - 26.0 | 250            |
| GR67M50A    | M50   | 1.988      | 50.5 | 0.039 - 0.157   | 1.0 - 4.0 | 1.024 - 1.338 | 26.0 - 34.0 | 250            |

## Push In Flexible Grommet

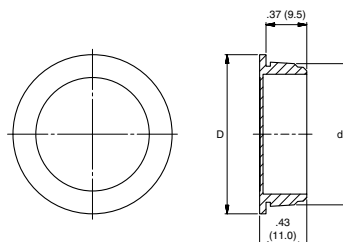


## Specifications:

- Material: Polyethylene and TPE
- Color: Grey

## Features:

- Dust tight
- Quick and easy mounting
- For enclosures with more than .079 (2.0) thickness

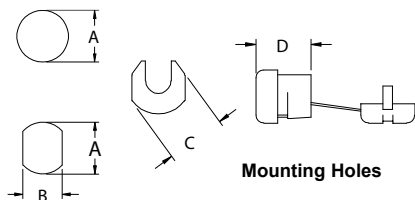


| Item No. | Ø d Hole |      | D OD  |      | Ø Cable Range |            | Bulk Pack Qty. |
|----------|----------|------|-------|------|---------------|------------|----------------|
|          | in       | mm   | in    | mm   | in            | mm         |                |
| 494632   | 0.630    | 16.0 | 0.835 | 21.2 | 0.039 - 0.354 | 1.0 - 9.0  | 100            |
| 494633   | 0.787    | 20.0 | 0.992 | 25.2 | 0.039 - 0.512 | 1.0 - 13.0 | 100            |
| 494634   | 0.984    | 25.0 | 1.189 | 30.2 | 0.039 - 0.709 | 1.0 - 18.0 | 100            |
| 494635   | 1.260    | 32.0 | 1.465 | 37.2 | 0.039 - 0.984 | 1.0 - 25.0 | 50             |

STRAIN RELIEF BUSHINGS



SRB/BSR Series  
Strain Relief Bushing



- Specifications:
- Material: UL94 V-2 Nylon
  - Color: Black

- Features:
- Protects electronic products by absorbing the forces of pull, push and twist that may be exerted on a flexible power cord
  - Securely protects cable at entry point
  - To install: Position bushing on cable, press ends of bushing together with installation tool (SRPL-2) and push into hole
  - Can be mounted in either a round hole or anti-rotation hole



| Item No.  | Approvals | Cross Section | Cable Type | Gauge (AWG) | Cable Size    |    | Strap Type  | Ø A       |       | Flats B |       | Max Panel |       | Length D |       | Width C Ref. |      | Bulk Pack Qty. |
|-----------|-----------|---------------|------------|-------------|---------------|----|-------------|-----------|-------|---------|-------|-----------|-------|----------|-------|--------------|------|----------------|
|           |           |               |            |             | in            | mm |             | in        | mm    | in      | mm    | in        | mm    | in       | mm    |              |      |                |
| SRB-F-1   |           | —             | Flat SPT-1 | 18/2        | 0.120 - 0.220 | Y  | 0.375       | 9.5       | 0.343 | 8.7     | 0.062 | 1.6       | 0.406 | 10.3     | 0.425 | 10.8         | 1000 |                |
| SRB-F-3   |           | —             | Flat SPT-1 | 18/2        | 0.120 - 0.220 | Y  | 0.433       | 11.1      | 0.390 | 9.9     | 0.062 | 1.6       | 0.406 | 10.3     | 0.476 | 12.1         | 1000 |                |
| 23MP04N40 |           |               | Flat SPT-1 | 18/3        | 0.120 - 0.300 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.100 | 2.5       | 0.406 | 10.3     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Flat SPT-2 | 18/2        | 0.120 - 0.300 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.100 | 2.5       | 0.406 | 10.3     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Flat HPN   | 18/2        | 0.120 - 0.300 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.100 | 2.5       | 0.406 | 10.3     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Flat SPT-1 | 18/3        | 0.120 - 0.300 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.156 | 4.0       | 0.406 | 10.3     | 0.578 | 14.7         | 1000 |                |
| 23MP04K40 |           |               | Flat SPT-2 | 18/2        | 0.120 - 0.300 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.156 | 4.0       | 0.406 | 10.3     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Flat HPN   | 18/3        | 0.120 - 0.300 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.156 | 4.0       | 0.406 | 10.3     | 0.578 | 14.7         | 1000 |                |
| SRB-F-6   |           | —             | Flat SPT-1 | 18/2        | 0.120 - 0.220 | Y  | 0.500       | 12.7      | 0.390 | 9.9     | 0.100 | 2.5       | 0.406 | 10.3     | 0.492 | 12.5         | 1000 |                |
|           |           | —             | Flat SPT-1 | 18/2        | 0.120 - 0.220 | Y  | 0.516       | 12.7      | 0.390 | 9.9     | 0.100 | 2.5       | 0.406 | 10.3     | 0.492 | 12.5         | 1000 |                |
|           |           | —             | Flat SPT-1 | 18/2        | 0.120 - 0.220 | Y  | 0.516       | 13.1      | 0.390 | 9.9     | 0.100 | 2.5       | 0.406 | 10.3     | 0.492 | 12.5         | 1000 |                |
|           |           | —             | Flat SPT-2 | —           | 0.146 - 0.299 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.062 | 1.6       | 0.406 | 10.3     | 0.547 | 13.9         | 1000 |                |
| SRB-F-8   |           | —             | Flat SPT-2 | —           | 0.150 - 0.299 | Y  | 0.516       | 13.1      | 0.465 | 11.8    | 0.062 | 1.6       | 0.406 | 10.3     | 0.547 | 13.9         | 1000 |                |
|           |           | —             | Flat SPT-2 | —           | 0.146 - 0.299 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.100 | 2.5       | 0.406 | 10.3     | 0.547 | 13.9         | 1000 |                |
| SRB-F-9   |           | —             | Flat SPT-2 | —           | 0.150 - 0.299 | Y  | 0.516       | 13.1      | 0.465 | 11.8    | 0.100 | 2.5       | 0.406 | 10.3     | 0.547 | 13.9         | 1000 |                |
|           |           | —             | Flat SPT-2 | —           | 0.146 - 0.299 | Y  | 0.500       | 12.7      | 0.465 | 11.8    | 0.100 | 2.5       | 0.406 | 10.3     | 0.547 | 13.9         | 1000 |                |
| 23MP04K10 |           |               | Flat SPT-2 | 18/3        | 0.150 - 0.400 | Y  | 0.500       | 12.7      | 0.460 | 11.7    | 0.095 | 2.4       | 0.495 | 12.6     | 0.565 | 14.4         | 1000 |                |
|           |           |               | Flat HPN   | 16/2        | 0.150 - 0.400 | Y  | 0.500       | 12.7      | 0.460 | 11.7    | 0.095 | 2.4       | 0.495 | 12.6     | 0.565 | 14.4         | 1000 |                |
|           |           |               | Flat SPT-2 | 16/2        | 0.160 - 0.300 | Y  | 0.500       | 12.7      | 0.460 | 11.7    | 0.095 | 2.4       | 0.495 | 12.6     | 0.565 | 14.4         | 1000 |                |
|           |           |               | Flat HPN   | 18/2        | 0.150 - 0.280 | Y  | 0.500       | 12.7      | 0.460 | 11.7    | 0.095 | 2.4       | 0.495 | 12.6     | 0.565 | 14.4         | 1000 |                |
|           |           |               | Flat SPT-2 | 18/2        | 0.150 - 0.280 | Y  | 0.500       | 12.7      | 0.460 | 11.7    | 0.095 | 2.4       | 0.495 | 12.6     | 0.565 | 14.4         | 1000 |                |
|           |           |               | Round SV   | 18/2        | 0.250         | Y  | 0.500       | 12.7      | 0.450 | 11.4    | 0.062 | 1.6       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
| 23MP05N40 |           |               | Round SV   | 18/2        | 0.250         | Y  | 0.500-0.515 | 12.7-13.1 | 0.450 | 11.4    | 0.062 | 1.6       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round SV   | 18/3        | 0.255         | Y  | 0.500       | 12.7      | 0.450 | 11.4    | 0.062 | 1.6       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round SV   | 18/3        | 0.255         | Y  | 0.500-0.515 | 12.7-13.1 | 0.450 | 11.4    | 0.062 | 1.6       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round HPD  | 18/2        | 0.290         | Y  | 0.500       | 12.7      | 0.450 | 11.4    | 0.062 | 1.6       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
| 23MP05P40 |           |               | Round HPD  | 18/2        | 0.290         | Y  | 0.500-0.515 | 12.7-13.1 | 0.450 | 11.4    | 0.062 | 1.6       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round SV   | 18/2        | 0.250         | Y  | 0.500       | 12.7      | 0.450 | 11.4    | 0.100 | 2.5       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round SV   | 18/2        | 0.250         | Y  | 0.500-0.515 | 12.7-13.1 | 0.450 | 11.4    | 0.100 | 2.5       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round SV   | 18/3        | 0.255         | Y  | 0.500       | 12.7      | 0.450 | 11.4    | 0.100 | 2.5       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round SV   | 18/3        | 0.255         | Y  | 0.500-0.515 | 12.7-13.1 | 0.450 | 11.4    | 0.100 | 2.5       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           |               | Round HPD  | 16/2        | 0.290         | Y  | 0.500       | 12.7      | 0.450 | 11.4    | 0.100 | 2.5       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
| SRB-R-1   |           | —             | Round HPD  | 16/2        | 0.290         | Y  | 0.500-0.515 | 12.7-13.1 | 0.450 | 11.4    | 0.100 | 2.5       | 0.438 | 11.1     | 0.578 | 14.7         | 1000 |                |
|           |           | —             | Round SVI  | —           | 0.252         | Y  | 0.500       | 12.7      | 0.453 | 11.5    | 0.062 | 1.6       | 0.437 | 11.1     | 0.559 | 14.2         | 1000 |                |
| SRB-R-2   |           | —             | Round SVT  | —           | 0.291         | Y  | 0.516       | 13.1      | 0.453 | 11.5    | 0.062 | 1.6       | 0.437 | 11.1     | 0.559 | 14.2         | 1000 |                |
|           |           | —             | Round SVI  | —           | 0.252         | Y  | 0.500       | 12.7      | 0.453 | 11.5    | 0.100 | 2.5       | 0.437 | 11.1     | 0.559 | 14.2         | 1000 |                |
| SRB-R-3   |           | —             | Round SVT  | —           | 0.291         | Y  | 0.516       | 13.1      | 0.453 | 11.5    | 0.100 | 2.5       | 0.437 | 11.1     | 0.559 | 14.2         | 1000 |                |
| SRB-R-4   |           | —             | Round SVT  | —           | 0.291         | Y  | 0.516       | 13.1      | 0.453 | 11.5    | 0.100 | 2.5       | 0.437 | 11.1     | 0.559 | 14.2         | 1000 |                |
| 23MP06N40 |           |               | Round SJO  | 18/3        | 0.299         | Y  | 0.626       | 15.9      | 0.551 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.701 | 17.8         | 500  |                |
|           |           |               | Round SJO  | 18/3        | 0.299         | Y  | 0.626       | 15.9      | 0.551 | 14.0    | 0.126 | 3.2       | 0.580 | 14.7     | 0.693 | 17.6         | 500  |                |
| 23MP06W10 |           |               | Round SJO  | 18/2        | 0.300         | Y  | 0.625       | 15.88     | 0.550 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.703 | 17.9         | 1000 |                |
|           |           |               | Round SJO  | 18/2        | 0.300         | Y  | 0.625       | 15.88     | 0.550 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.703 | 17.9         | 1000 |                |
| SRB-R-7   |           |               | Round SJ   | 18/2        | 0.300         | Y  | 0.500       | 12.7      | 0.456 | 11.6    | 0.090 | 2.3       | 0.437 | 11.1     | 0.563 | 14.3         | 1000 |                |
|           |           |               | Round SJO  | 18/2        | 0.300         | Y  | 0.500       | 12.7      | 0.456 | 11.6    | 0.090 | 2.3       | 0.437 | 11.1     | 0.563 | 14.3         | 1000 |                |
| SRB-R-8   |           | —             | Round SJO  | 16/3        | 0.323 - 0.362 | Y  | 0.626       | 15.9      | 0.551 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.701 | 17.8         | 500  |                |
| 23MP06P34 |           |               | Round SJO  | 16/3        | 0.323 - 0.362 | Y  | 0.626       | 15.9      | 0.551 | 14.0    | 0.126 | 3.2       | 0.580 | 14.7     | 0.681 | 17.3         | 500  |                |
|           |           |               | Round SJ   | 18/3        | 0.325 - 0.360 | Y  | 0.650       | 16.5      | 0.550 | 14.0    | 0.125 | 3.2       | 0.580 | 14.7     | 0.703 | 17.9         | 500  |                |
|           |           |               | Round SJO  | 16/3        | 0.325 - 0.360 | Y  | 0.650       | 16.5      | 0.550 | 14.0    | 0.125 | 3.2       | 0.580 | 14.7     | 0.703 | 17.9         | 500  |                |
|           |           |               | Round SJ   | 18/3        | 0.325 - 0.360 | Y  | 0.650       | 16.5      | 0.550 | 14.0    | 0.125 | 3.2       | 0.580 | 14.7     | 0.703 | 17.9         | 500  |                |
|           |           |               | Round SJO  | 18/3        | 0.325 - 0.360 | Y  | 0.650       | 16.5      | 0.550 | 14.0    | 0.125 | 3.2       | 0.580 | 14.7     | 0.703 | 17.9         | 500  |                |
|           |           |               | Round SJ   | 16/2        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
| 23MP06L10 |           |               | Round SJ   | 16/3        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
|           |           |               | Round SJO  | 16/2        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
|           |           |               | Round SJO  | 16/3        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
|           |           |               | Round SJ   | 18/3        | 0.325 - 0.359 | Z  | 0.875       | 22.2      | 0.770 | 19.6    | 0.125 | 3.2       | 0.750 | 19.1     | 0.922 | 23.4         | 250  |                |
| 23MP07K30 |           |               | Round SJ   | 16/2        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
|           |           |               | Round SJO  | 16/2        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
|           |           |               | Round SJO  | 16/3        | 0.325 - 0.429 | Z  | 0.625       | 15.9      | 0.550 | 14.0    | 0.125 | 3.2       | 0.666 | 16.9     | 0.725 | 18.4         | 500  |                |
|           |           |               | Round SJ   | 18/3        | 0.325 - 0.359 | Z  | 0.875       | 22.2      | 0.770 | 19.6    | 0.125 | 3.2       | 0.750 | 19.1     | 0.922 | 23.4         | 250  |                |
| 23MP06N34 |           |               | Round SJO  | 18/3        | 0.325 - 0.359 | Z  | 0.875       | 22.2      | 0.770 | 19.6    | 0.125 | 3.2       | 0.750 | 19.1     | 0.922 | 23.4         | 250  |                |
|           |           |               | Round SJO  | 16/2        | 0.325 - 0.359 | Z  | 0.875       | 22.2      | 0.770 | 19.6    | 0.125 | 3.2       | 0.750 | 19.1     | 0.922 | 23.4         | 250  |                |
| SRB-R-9   |           |               | Round SJ   | 18/3        | 0.355         | Y  | 0.625       | 15.9      | 0.550 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.703 | 17.9         | 1000 |                |
|           |           |               | Round SJO  | 18/3        | 0.405         | Y  | 0.625       | 15.9      | 0.550 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.703 | 17.9         | 1000 |                |
| SRB-R-10  |           |               | Round SJO  | 18/3        | 0.430         | Y  | 0.625       | 15.9      | 0.550 | 14.0    | 0.062 | 1.6       | 0.580 | 14.7     | 0.703 | 17.9         | 1000 |                |
|           |           | —             | Round SJO  | 14/3        | 0.362 - 0.413 | Y  | 0.748       | 19.0      | 0.650 | 16.5    | 0.062 | 1.6       | 0.750 | 19.1     | 0.847 | 21.5         | 100  |                |
| SRB-R-10  |           | —             | Round SJO  | 14/3        | 0.433         | Y  | 0.780       | 19.8      | 0.650 | 16.5    | 0.062 | 1.6       | 0.750 | 19.1     | 0.847 | 21.5         | 100  |                |
|           |           | —             | Round SJO  | 14/3        | 0.362 - 0.413 | Y  | 0.748       | 19.0      | 0.650 | 16.5    | 0.126 | 3.2       | 0.764 | 19.4     | 0.854 | 21.7         | 100  |                |



## CABLE GLANDS

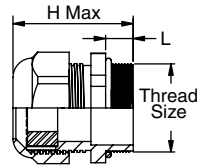
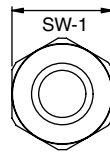
CG-NPT Series  
NPT Cable Gland

## Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6  
Sealing Gland: CR/NBR  
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut: UL94 V-2 Glass-Filled Nylon 6
- Color: Black

## Features:

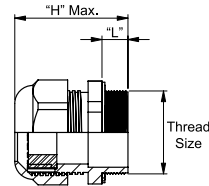
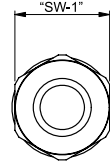
- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-Ring is needed for smaller sizes to meet IP68 rating
- Operating temperature: -4°F - 212°F (-20°C - 100°C)



## Optional Locknuts

| Item No.        | Thread Size | Locking Nuts |      |           |     | Bulk Pack Qty. |
|-----------------|-------------|--------------|------|-----------|-----|----------------|
|                 |             | Across Flats |      | Thickness |     |                |
|                 |             | in           | mm   | in        | mm  |                |
| CGNPT050B       | NPT-1/4     | 0.748        | 19.0 | 0.216     | 5.5 | 100            |
| CGLN-NPT-3/8-BK | NPT-3/8     | 0.866        | 22.0 | 0.197     | 5.0 | 100            |
| CGLN-NPT-1/2-BK | NPT-1/2     | 1.063        | 27.0 | 0.236     | 6.0 | 100            |
| CGLN-NPT-3/4-BK | NPT-3/4     | 1.417        | 36.0 | 0.276     | 7.0 | 100            |
| CGLN-NPT-1-BK   | NPT-1       | 1.654        | 42.0 | 0.276     | 7.0 | 100            |

| Item No.        | Approval | Cable Ø Range Min |      | Cable Ø Range Max |      | Thread Size | Mounting Hole |      | L     |      | SW-1  |      | H Max Ref. |      | Bulk Pack Qty. |
|-----------------|----------|-------------------|------|-------------------|------|-------------|---------------|------|-------|------|-------|------|------------|------|----------------|
|                 |          | in                | mm   | in                | mm   |             | in            | mm   | in    | mm   | in    | mm   | in         | mm   |                |
| CG-NPT-1/4-1-BK | —        | 0.157             | 4.0  | 0.315             | 8.0  | NPT-1/4     | 0.524         | 13.3 | 0.354 | 9.0  | 0.748 | 19.0 | 1.378      | 35.0 | 100            |
| CG-NPT-3/8-1-BK | UL       | 0.118             | 3.0  | 0.276             | 7.0  | NPT-3/8     | 0.670         | 17.0 | 0.571 | 14.5 | 0.866 | 22.0 | 1.750      | 44.5 | 100            |
| CG-NPT-3/8-2-BK | UL       | 0.197             | 5.0  | 0.394             | 10.0 | NPT-3/8     | 0.670         | 17.0 | 0.571 | 14.5 | 0.866 | 22.0 | 1.750      | 44.5 | 100            |
| CG-NPT-1/2-1-BK | UL       | 0.197             | 5.0  | 0.236             | 9.0  | NPT-1/2     | 0.875         | 22.2 | 0.571 | 14.5 | 0.945 | 24.0 | 1.770      | 45.0 | 100            |
| CG-NPT-1/2-2-BK | UL       | 0.276             | 7.0  | 0.472             | 12.0 | NPT-1/2     | 0.875         | 22.2 | 0.591 | 15.0 | 1.063 | 27.0 | 1.870      | 47.5 | 100            |
| CG-NPT-1/2-3-BK | UL       | 0.394             | 10.0 | 0.551             | 14.0 | NPT-1/2     | 0.875         | 22.2 | 0.591 | 15.0 | 1.063 | 27.0 | 1.870      | 47.5 | 100            |
| CG-NPT-3/4-1-BK | UL       | 0.354             | 9.0  | 0.630             | 16.0 | NPT-3/4     | 1.068         | 27.1 | 0.591 | 15.0 | 1.299 | 33.0 | 2.050      | 52.0 | 50             |
| CG-NPT-3/4-2-BK | UL       | 0.551             | 14.0 | 0.709             | 18.0 | NPT-3/4     | 1.068         | 27.1 | 0.591 | 15.0 | 1.299 | 33.0 | 2.050      | 52.0 | 50             |
| CG-NPT-1-1-BK   | UL       | 0.472             | 12.0 | 0.787             | 20.0 | NPT-1       | 1.350         | 34.3 | 0.709 | 18.0 | 1.654 | 42.0 | 2.380      | 60.5 | 25             |
| CG-NPT-1-2-BK   | UL       | 0.748             | 19.0 | 0.984             | 25.0 | NPT-1       | 1.350         | 34.3 | 0.709 | 18.0 | 1.654 | 42.0 | 2.380      | 60.5 | 25             |

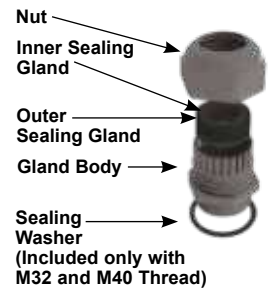
CG-M Series  
Cable Gland – Metric Thread

## Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6  
Sealing Gland: CR/NBR  
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut: UL94 V-2 Glass-Filled Nylon 6
- Color: Black

## Features:

- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no Sealing Washer is needed for smaller sizes to meet IP68 rating
- Two Sealing Glands are included with all but the M12 thread. Remove the inner sealing gland for larger cable diameters

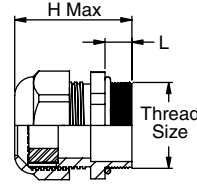
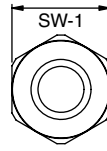
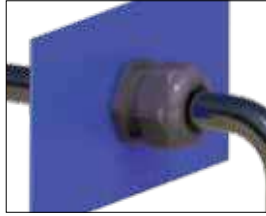


| Item No.    | Approval | Ø Cable Range Min |     | Ø Cable Range Max |      | Thread Size | Mounting Hole |      | L     |      | SW-1  |      | H Max Ref. |      | Pack Qty. | Bulk Pack Qty. |
|-------------|----------|-------------------|-----|-------------------|------|-------------|---------------|------|-------|------|-------|------|------------|------|-----------|----------------|
|             |          | in                | mm  | in                | mm   |             | in            | mm   | in    | mm   | in    | mm   | in         | mm   |           |                |
| CG-M12-1-BK | UL       | 0.079             | 2.0 | 0.197             | 5.0  | M12         | 0.480         | 12.2 | 0.315 | 8.0  | 0.591 | 15.0 | 1.220      | 31.0 | 1         | 100            |
| CG-M16-1-BK | UL       | 0.118             | 3.0 | 0.394             | 10.0 | M16         | 0.638         | 16.2 | 0.315 | 8.0  | 0.787 | 20.0 | 1.398      | 35.5 | 1         | 100            |
| CG-M20-1-BK | UL       | 0.197             | 5.0 | 0.512             | 13.0 | M20         | 0.795         | 20.2 | 0.315 | 8.0  | 0.945 | 24.0 | 1.417      | 36.0 | 1         | 100            |
| CG-M25-1-BK | UL       | 0.315             | 8.0 | 0.669             | 17.0 | M25         | 0.992         | 25.2 | 0.315 | 8.0  | 1.142 | 29.0 | 1.623      | 43.0 | 1         | 50             |
| CG-M32-1-BK | UL       | 0.472             | 12  | 0.827             | 21.0 | M32         | 1.268         | 32.2 | 0.394 | 10.0 | 1.417 | 36.0 | 1.968      | 50.0 | 1         | 25             |
| CG-M40-1-BK | UL       | 0.630             | 16  | 1.102             | 28.0 | M40         | 1.583         | 40.2 | 0.394 | 10.0 | 1.811 | 46.0 | 2.008      | 51.0 | 1         | 10             |

## Optional Locknuts

| Locking Nuts |             |              |      |           |     |           |                |  |
|--------------|-------------|--------------|------|-----------|-----|-----------|----------------|--|
| Item No.     | Thread Size | Across Flats |      | Thickness |     | Pack Qty. | Bulk Pack Qty. |  |
|              |             | in           | mm   | in        | mm  |           |                |  |
| CGLN-M12-BK  | M12         | 0.339        | 17.0 | 0.197     | 5.0 | 1         | 100            |  |
| CGLN-M16-BK  | M16         | 0.866        | 22.0 | 0.197     | 5.0 | 1         | 100            |  |
| CGLN-M20-BK  | M20         | 1.063        | 27.0 | 0.236     | 6.0 | 1         | 100            |  |
| CGLN-M25-BK  | M25         | 1.260        | 32.0 | 0.236     | 6.0 | 1         | 100            |  |
| CGLN-M32-BK  | M32         | 1.614        | 41.0 | 0.276     | 7.0 | 1         | 100            |  |
| CGLN-M40-BK  | M40         | 1.969        | 50.0 | 0.276     | 7.0 | 1         | 50             |  |

## CABLE GLANDS

CG-PG Series  
PG Cable Gland

## Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6  
Sealing Gland: CR/NBR  
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut:  
UL94 V-2 Glass-Filled Nylon 6
- Color: Black
- Temperature Range: -4°F - 212°F (-20°C -100°C)

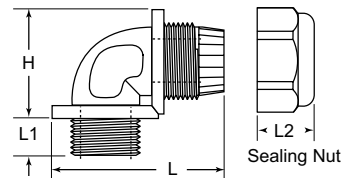
## Features:

- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-Ring needed for smaller sizes to meet IP68 rating

## Optional Locknuts

| Item No.       | Thread Size | Locking Nuts |           | Pack Qty. | Bulk Pack Qty. |
|----------------|-------------|--------------|-----------|-----------|----------------|
|                |             | Across Flats | Thickness |           |                |
|                |             | In           | mm        |           |                |
| CGLN-PG7-BK    | PG7         | 0.748        | 19.0      | 1         | 100            |
| CGLN-PG9-BK    | PG9         | 0.866        | 22.0      | 1         | 100            |
| CGLN-PG11-BK   | PG11        | 0.945        | 24.0      | 1         | 100            |
| CGLN-PG13.5-BK | PG13.5      | 1.063        | 27.0      | 1         | 100            |
| CGLN-PG16-BK   | PG16        | 1.181        | 30.0      | 1         | 100            |
| CGLN-PG21-BK   | PG21        | 1.417        | 36.0      | 1         | 100            |
| CGLN-PG29-BK   | PG29        | 1.811        | 46.0      | 1         | 100            |
| CGLN-PG36-BK   | PG36        | 2.362        | 60.0      | 1         | 50             |

| Item No.       | Approval | Ø Cable Range Min |      | Ø Cable Range Max |      | Thread Size | Mounting Hole |      | L     |      | SW-1  |      | H Max Ref. |      | Pack Qty. | Bulk Pack Qty. |
|----------------|----------|-------------------|------|-------------------|------|-------------|---------------|------|-------|------|-------|------|------------|------|-----------|----------------|
|                |          | In                | mm   | In                | mm   |             | In            | mm   | In    | mm   | In    | mm   | In         | mm   |           |                |
| CG-PG7-1-BK    | UL       | 0.079             | 2.0  | 0.197             | 5.0  | PG7         | 0.500         | 12.7 | 0.315 | 8.0  | 0.591 | 15.0 | 1.201      | 30.5 | 1         | 100            |
| CG-PG7-2-BK    | UL       | 0.118             | 3.0  | 0.256             | 6.5  | PG7         | 0.500         | 12.7 | 0.315 | 8.0  | 0.591 | 15.0 | 1.201      | 30.5 | 1         | 100            |
| CG-PG9-1-BK    | UL       | 0.079             | 2.0  | 0.236             | 6.0  | PG9         | 0.606         | 15.4 | 0.315 | 8.0  | 0.748 | 19.0 | 1.339      | 34.0 | 1         | 100            |
| CG-PG9-2-BK    | UL       | 0.157             | 4.0  | 0.315             | 8.0  | PG9         | 0.606         | 15.4 | 0.315 | 8.0  | 0.748 | 19.0 | 1.339      | 34.0 | 1         | 100            |
| CG-PG11-1-BK   | UL       | 0.118             | 3.0  | 0.276             | 7.0  | PG11        | 0.740         | 18.8 | 0.315 | 8.0  | 0.866 | 22.0 | 1.457      | 37.0 | 1         | 100            |
| CG-PG11-2-BK   | UL       | 0.197             | 5.0  | 0.394             | 10.0 | PG11        | 0.740         | 18.8 | 0.315 | 8.0  | 0.866 | 22.0 | 1.457      | 37.0 | 1         | 100            |
| CG-PG13.5-1-BK | UL       | 0.236             | 6.0  | 0.472             | 12.0 | PG13.5      | 0.815         | 20.7 | 0.354 | 9.0  | 0.945 | 24.0 | 1.535      | 39.0 | 1         | 100            |
| CG-PG16-1-BK   | UL       | 0.394             | 10.0 | 0.551             | 14.0 | PG16        | 0.898         | 22.8 | 0.394 | 10.0 | 1.063 | 27.0 | 1.673      | 42.5 | 1         | 50             |
| CG-PG21-1-BK   | UL       | 0.236             | 9.0  | 0.630             | 16.0 | PG21        | 1.126         | 28.6 | 0.433 | 11.0 | 1.299 | 33.0 | 1.870      | 47.5 | 1         | 50             |
| CG-PG21-2-BK   | UL       | 0.512             | 13.0 | 0.709             | 18.0 | PG21        | 1.126         | 28.6 | 0.433 | 11.0 | 1.299 | 33.0 | 1.870      | 47.5 | 1         | 50             |
| CG-PG29-1-BK   | UL       | 0.472             | 12.0 | 0.787             | 20.0 | PG29        | 1.472         | 37.4 | 0.433 | 11.0 | 1.654 | 42.0 | 2.087      | 53.0 | 1         | 25             |
| CG-PG36-1-BK   | UL       | 0.787             | 20.0 | 1.024             | 26.0 | PG36        | 1.870         | 47.5 | 0.512 | 13.0 | 2.087 | 53.0 | 2.402      | 61.0 | 1         | 10             |
| CG-PG36-2-BK   | UL       | 0.866             | 22.0 | 1.260             | 32.0 | PG36        | 1.870         | 47.5 | 0.512 | 13.0 | 2.087 | 53.0 | 2.402      | 61.0 | 1         | 10             |

CGRA Series  
90° NPT Cable Glands

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temperature Range: Working -40°F to 221°F  
(-40°C to 105°C)  
Intermittent up to 300°F (149°C)

## Features:

- IP 68 rated protection: 5 bar
- Provides dust and water-tight performance and strain relief
- EPDM gasket and lock nut are sold separately

## Optional Parts

| LNPT - NPT Locknuts |            |           |                |
|---------------------|------------|-----------|----------------|
| Locknut Item No.    | NPT Thread | Pack Qty. | Bulk Pack Qty. |
| LNPT100B            | 3/8"       | 1         | 50             |
| LNPT200B            | 1/2"       | 1         | 50             |
| LNPT300B            | 3/4"       | 1         | 50             |
| LNPT005B            | 1-1/4"     | 1         | 10             |

| Item No. | NPT Thread | Mounting Hole | Overall Length L |      | Mounting Thread L1 |      | Nut Length L2 |      | Overall Height H |      | Variable Clamping Range (Min/Max) |             | Pack Qty. | Bulk Pack Qty. |
|----------|------------|---------------|------------------|------|--------------------|------|---------------|------|------------------|------|-----------------------------------|-------------|-----------|----------------|
|          |            |               | In               | mm   | In                 | mm   | In            | mm   | In               | mm   | In                                | mm          |           |                |
| CGRA011A | 3/8        | 0.687         | 1.909            | 48.5 | 0.461              | 11.7 | 0.657         | 16.7 | 1.181            | 30.0 | 0.197 - 0.354                     | 5.0 - 8.0   | 1         | 20             |
| CGRA015A | 1/2        | 0.875         | 2.031            | 51.6 | 0.579              | 14.7 | 0.724         | 18.4 | 1.228            | 31.2 | 0.393 - 0.512                     | 10.0 - 13.0 | 1         | 20             |
| CGRA018A | 3/4        | 1.0625        | 2.539            | 64.5 | 0.583              | 14.8 | 0.878         | 22.3 | 1.638            | 41.6 | 0.512 - 0.630                     | 13.0 - 16.0 | 1         | 20             |
| CGRA020A | 1-1/4      | 1.687         | 3.346            | 85.0 | 0.740              | 18.8 | 1.220         | 31.0 | 2.087            | 53.0 | 0.866 - 1.412                     | 22.0 - 29.0 | 1         | 10             |



## PANEL HOLE PLUGS & CABLE GROMMETS

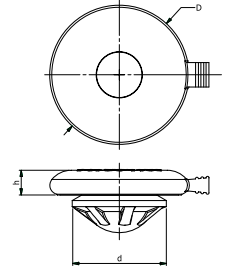
### Metric & PG Threaded Rubber Plug

**Specifications:**

- Material: Silicone Rubber
- Color: Black

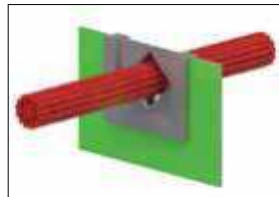
**Features:**

- Can be pushed into place using a blunt tipped tool
- Used to give water tight protection to spare holes that need to be closed off
- Pull tab for easy removal
- Fits standard Metric and PG sizes



| Item No. | Cable Gland Sizes | Ø Hole        |             | Panel Thickness Range |           | d     |      | D     |      | h     |     | Bulk Pack Qty. |
|----------|-------------------|---------------|-------------|-----------------------|-----------|-------|------|-------|------|-------|-----|----------------|
|          |                   | in            | mm          | in                    | mm        | in    | mm   | in    | mm   | in    | mm  |                |
| 551846   | PG7/M12           | 0.480 - 0.492 | 12.2 - 12.5 | 0.039 - 0.079         | 1.0 - 2.0 | 0.571 | 14.5 | 0.968 | 24.6 | 0.189 | 4.8 | 1000           |
| 551847   | PG9/M16           | 0.606 - 0.638 | 15.4 - 16.2 | 0.039 - 0.079         | 1.0 - 2.0 | 0.689 | 17.5 | 1.087 | 27.6 | 0.197 | 5.0 | 500            |
| 551848   | PG11/PG13.5/M20   | 0.740 - 0.815 | 18.8 - 20.7 | 0.039 - 0.079         | 1.0 - 2.0 | 0.905 | 23.0 | 1.346 | 34.2 | 0.236 | 6.0 | 500            |
| 551849   | PG16              | 0.898         | 22.8        | 0.039 - 0.079         | 1.0 - 2.0 | 1.024 | 26.0 | 1.520 | 38.6 | 0.256 | 6.5 | 200            |
| 551850   | PG21/M25          | 0.992 - 1.126 | 25.2 - 28.6 | 0.039 - 0.079         | 1.0 - 2.0 | 1.220 | 31.0 | 1.732 | 44.0 | 0.295 | 7.5 | 100            |
| 551851   | M32               | 1.268 - 1.394 | 32.2 - 35.4 | 0.039 - 0.079         | 1.0 - 2.0 | 1.575 | 40.0 | 2.205 | 56.0 | 0.354 | 9.0 | 100            |

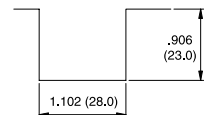
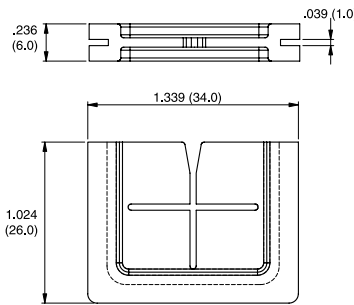
### CGA Series Cable Grommet

**Specifications:**

- Material: Silicone Rubber, 70 Shore A
- Color: Black

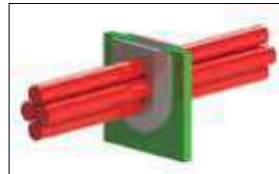
**Features:**

- Routes cables and protects wires from sharp edges
- "Wings" are flexible so it can accept various diameters and shapes
- Continuous working temperature of 300°F

**Recommended Panel Cut-Out**

| Item No. | Ø Maximum Bundle |      | Panel Thickness |     | Bulk Pack Qty. |
|----------|------------------|------|-----------------|-----|----------------|
|          | in               | mm   | in              | mm  |                |
| 1258288  | 0.591            | 15.0 | 0.039           | 1.0 | 1000           |

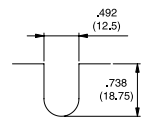
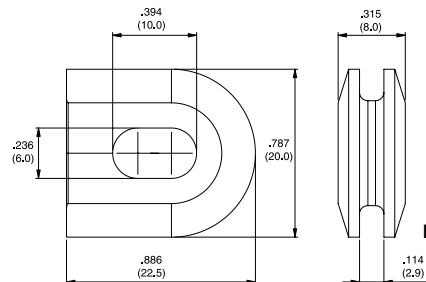
### CGB Series Cable Grommet

**Specifications:**

- Material: Silicone Rubber, 65 Shore A
- Color: Black

**Features:**

- Routes cables and protects wires from sharp edges
- "Wings" are flexible so it can accept various diameters and shapes
- Continuous working temperature of 350°F

**Recommended Panel Cut-Out**

| Item No. | Bundle Area   |            | Max Panel Thickness |     | Bulk Pack Qty. |
|----------|---------------|------------|---------------------|-----|----------------|
|          | in            | mm         | in                  | mm  |                |
| CGB-1    | 0.394 x 0.236 | 10.0 x 6.0 | 0.110               | 2.8 | 1000           |

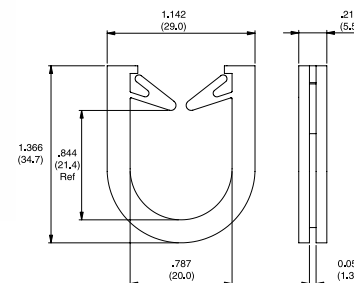
### CGC Series Cable Grommet

**Specifications:**

- Material: Nylon 6/6
- Color: Natural

**Features:**

- Routes cables and protects wires from sharp edges
- "Wings" are flexible so it can accept various diameters and shapes
- Cables may be inserted and removed

**Recommended Panel Cut-Out**

| Item No. | Bundle Area   |             | Max Panel Thickness |     | Bulk Pack Qty. |
|----------|---------------|-------------|---------------------|-----|----------------|
|          | in            | mm          | in                  | mm  |                |
| CGC-1-01 | 0.844 x 0.787 | 21.4 x 20.0 | 0.047               | 1.2 | 250            |



EHWSE/EWSE/EWSJS Series  
Edge Wire Saddle

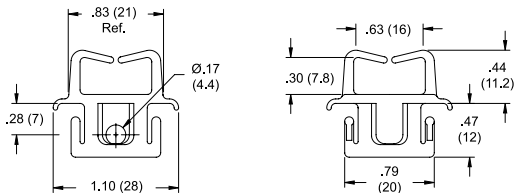
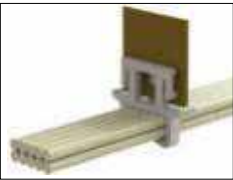


Figure 1

Recommended Mounting Hole

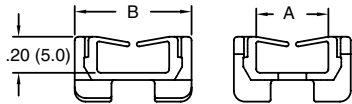
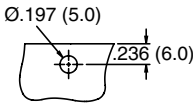


Figure 2

Recommended Panel Cut-Out

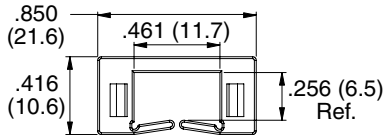
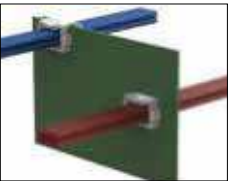
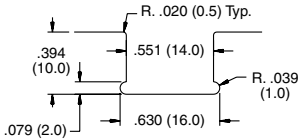
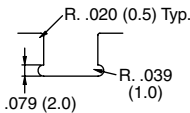
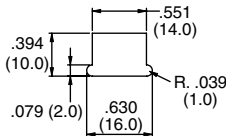


Figure 3

Thru Hole Panel Cut-Out

Edge Hole Panel Cut-Out



Specifications:

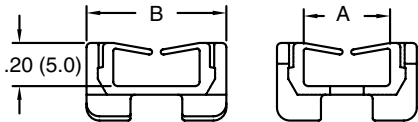
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Mounts vertically or horizontally
- Routes cables and protects wires from sharp edges

| Item No.   | Figure | Approval | Color   | Panel Thickness |           | Depth |     | Bulk Pack Qty. |
|------------|--------|----------|---------|-----------------|-----------|-------|-----|----------------|
|            |        |          |         | in              | mm        | in    | mm  |                |
| EHWSE-1-01 | 1      | UL       | Natural | 0.039 - 0.079   | 1.0 - 2.0 | 0.240 | 6.2 | 1000           |
| EWSE-1-01  | 2      | UL       | Black   | 0.032 - 0.078   | 0.8 - 1.2 | 0.190 | 4.8 | 1000           |
| EWSE-2-01  | 2      | UL       | Natural | 0.047 - 0.063   | 1.2 - 1.6 | 0.190 | 4.8 | 1000           |
| EWSE-3-01  | 2      | UL       | Grey    | 0.063 - 0.079   | 1.6 - 2.0 | 0.190 | 4.8 | 1000           |
| EWSJS-1-01 | 3      | —        | Natural | 0.032 - 0.078   | 0.8 - 2.0 | 0.260 | 6.6 | 1000           |

EWSE Series  
Edge Wire Saddle

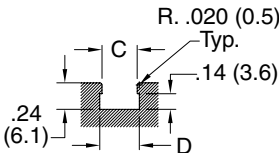


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Snaps into cutout on the board
- Routes cables and protects wires from sharp edges



Recommended Panel Cut-Out

| Item No.     | Approval | Panel Thickness |           | A     |      | B     |      | C     |      | D     |      | Depth |     | Bulk Pack Qty. |
|--------------|----------|-----------------|-----------|-------|------|-------|------|-------|------|-------|------|-------|-----|----------------|
|              |          | in              | mm        | in    | mm   | in    | mm   | in    | mm   | in    | mm   | in    | mm  |                |
| EWSE-12.8-01 | UL       | 0.031 - 0.063   | 0.8 - 1.6 | 0.200 | 5.0  | 0.440 | 11.3 | 0.320 | 8.1  | 0.360 | 9.1  | 0.140 | 3.6 | 1000           |
| EWSE-8.1-01  | UL       | 0.031 - 0.063   | 0.8 - 1.6 | 0.390 | 10.0 | 0.640 | 16.2 | 0.500 | 12.8 | 0.540 | 13.8 | 0.140 | 3.6 | 1000           |



## EDGE WIRE SADDLES &amp; GROMMET EDGING

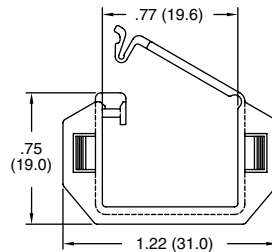
**HEWSE Series**  
Hinged Edge Wire Saddle

Figure 1

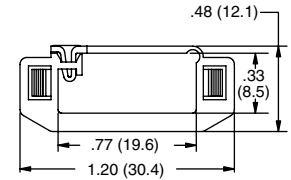


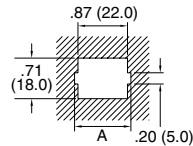
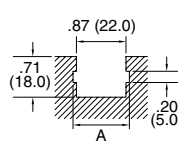
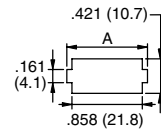
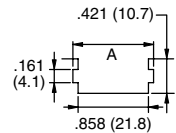
Figure 2

## Specifications:

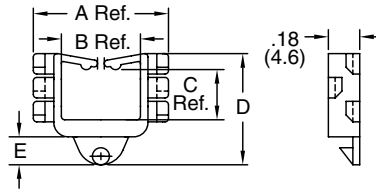
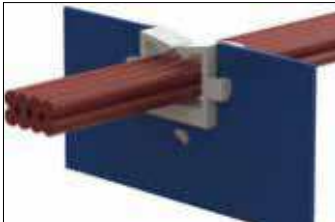
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Routes cables and protects them from sharp edges
- Installed in a mounting slot; edge or through-hole
- Hinged latch allows retrofitting into pre-existing applications

Thru Hole  
Panel Cut-OutEdge Hole Panel  
Cut-OutThru Hole Panel  
Cut-OutEdge Hole Panel  
Cut-Out

| Item No.    | Figure | Panel Thickness |           | A     |      | Depth |     | Bulk Pack Qty. |
|-------------|--------|-----------------|-----------|-------|------|-------|-----|----------------|
|             |        | in              | mm        | in    | mm   | in    | mm  |                |
| HEWSE-22-01 | 1      | 0.020 - 0.063   | 0.5 - 1.6 | 0.980 | 25.0 | 0.260 | 6.6 | 1000           |
| HEWSE-25-01 | 2      | 0.031 - 0.063   | 0.8 - 1.6 | 0.980 | 25.0 | 0.260 | 6.6 | 1000           |
| HEWSE-25-01 | 2      | 0.079           | 2.0       | 1.020 | 26.0 | 0.260 | 6.6 | 1000           |

**LEWSE Series**  
Edge Wire Saddle

Recommended Panel Cut-Out

## Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

## Features:

- Locking pin in mounting base provides firm grip to the board
- Protects wires from sharp edges
- Available in four different sizes

| Item No.    | Panel Thickness | A Ref. | B Ref. | C Ref. | D     | E     | F      | I     | G     | R. J  | R. K  | Bulk Pack Qty. |
|-------------|-----------------|--------|--------|--------|-------|-------|--------|-------|-------|-------|-------|----------------|
|             |                 | in     | in     | in     | in    | in    | in     | in    | in    | in    | in    |                |
| LEWSE-14-01 | 0.031 - 0.063   | 0.780  | 0.460  | 0.290  | 0.640 | 0.160 | 0.551  | 0.484 | 0.106 | 0.079 | 0.039 | 1000           |
| LEWSE-19-01 | 0.031 - 0.063   | 1.060  | 0.660  | 0.590  | 0.980 | 0.150 | 0.756  | 0.831 | 0.100 | 0.079 | 0.039 | 1000           |
| LEWSE-21-01 | 0.031 - 0.063   | 1.130  | 0.660  | 0.580  | 0.980 | 0.150 | 0.827  | 0.827 | 0.100 | 0.079 | 0.060 | 1000           |
| LEWSE-27-01 | 0.031 - 0.063   | 1.370  | 0.900  | 0.910  | 1.310 | 0.120 | 10.630 | 1.140 | 0.106 | 0.079 | 0.060 | 1000           |

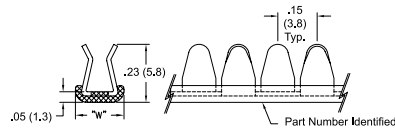
**MCCG Series**  
Metal Cushioned Grommet

Figure 1

## Specifications:

- Material: 304 Stainless Steel, Coated with Black Nylon 1
- Cushion: UL94 V-0 TPE (60 Shore D)
- Temperature Range: -40°F - 285°F (-40°C - 140°C)

## Features:

- Dielectric Strength: 1500 volts @ 60Hz
- Flexible polymer cushion gives additional abrasion protection
- Sold in 100 foot reels that can be cut to length using metal shears
- The MCCGF is the more flexible of the two due to the design

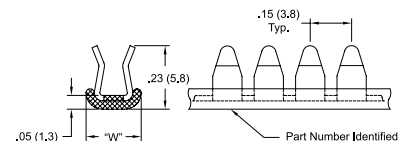


Figure 2

| Item No. | Figure 1 | Figure 2 | Approval | Fits Panel Thickness |           | Width W |     | Roll Length | Pack Qty. |
|----------|----------|----------|----------|----------------------|-----------|---------|-----|-------------|-----------|
|          |          |          |          | in                   | mm        | in      | mm  | ft          |           |
| MCCG-1N  | MCCGF-1N | NA       |          | 0.029 - 0.045        | 0.7 - 1.1 | 0.190   | 4.8 | 100         | 1         |
| MCCG-2N  | MCCGF-2N | NA       |          | 0.044 - 0.056        | 1.1 - 1.4 | 0.190   | 4.8 | 100         | 1         |
| MCCG-3N  | MCCGF-3N | NA       |          | 0.055 - 0.069        | 1.4 - 1.7 | 0.190   | 4.8 | 100         | 1         |
| MCCG-4N  | —        | NA       |          | 0.069 - 0.090        | 1.7 - 2.3 | 0.230   | 5.8 | 100         | 1         |
| MCCG-6N  | —        | NA       |          | 0.113 - 0.130        | 2.9 - 3.3 | 0.230   | 5.8 | 100         | 1         |

GROMMET EDGING



MCG/MCGF Series  
Metal Grommet



Specifications:

- Material: 304 Stainless Steel, Coated with Black Nylon 11 and a cushion of TPE 60 Shore D UL94V-0 rating
- Color: See Table
- Temperature Range: -40°F - 285°F (-40°C - 140°C)

Features:

- Dielectric Strength: 1000 Volts @ 60Hz
- Locks onto panel with finger pressure
- Sold in 100 foot reels that can be cut to length using metal shears
- The MCGF is the more flexible of the two due to the design

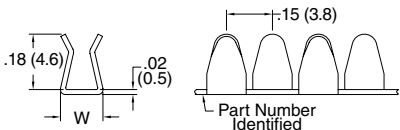


Figure 1

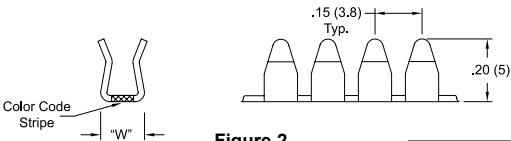


Figure 2



| Item No. |          | Fits Panel Thickness |               | Width W   |       | Color Coded | Roll Length |     | Pack Qty. |
|----------|----------|----------------------|---------------|-----------|-------|-------------|-------------|-----|-----------|
| Figure 1 | Figure 2 | Approval             | in            | mm        | in    |             | ft          |     |           |
| MCG-1N   | —        |                      | 0.029 - 0.045 | 0.7 - 1.1 | 0.140 | 3.6         | —           | 100 | 1         |
| MCG-2N   | —        |                      | 0.044 - 0.056 | 1.1 - 1.4 | 0.140 | 3.6         | —           | 100 | 1         |
| MCG-3N   | —        |                      | 0.055 - 0.069 | 1.4 - 1.7 | 0.140 | 3.6         | —           | 100 | 1         |
| MCG-4N   | —        |                      | 0.069 - 0.090 | 1.7 - 2.3 | 0.180 | 4.6         | —           | 100 | 1         |
| MCG-6N   | —        |                      | 0.113 - 0.130 | 2.9 - 3.3 | 0.180 | 4.6         | —           | 100 | 1         |
| —        | MCGF-1N  |                      | 0.029 - 0.045 | 0.7 - 1.1 | 0.130 | 3.3         | White       | 100 | 1         |
| —        | MCGF-2N  |                      | 0.044 - 0.056 | 1.1 - 1.4 | 0.130 | 3.3         | Pink        | 100 | 1         |
| —        | MCGF-3N  |                      | 0.055 - 0.069 | 1.4 - 1.7 | 0.130 | 3.3         | Yellow      | 100 | 1         |

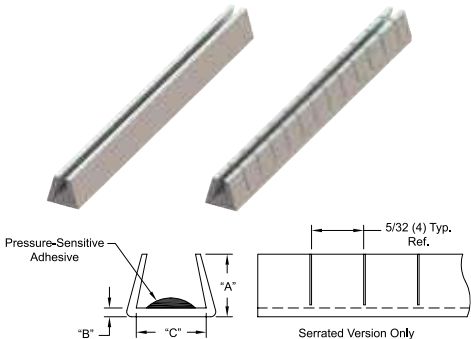
NGSG/SNGSG/PGSG/SPGSG Series  
Continuous Grommet Edging with Adhesive

Specifications:

- Material Options:
  - UL94 HB Nylon Temperature Range: -40°F - 248°F (-40°C - 120°C)
  - Polyethylene: Temperature Range: -40°F - 149°F (-40°C - 65°C)
- Color: See Table

Features:

- Adhesive provides self-retaining grip eliminating the need for epoxy
- Sizes 6, 7, and 8 are extra flexible
- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible



| Solid Profile Item No. |           | Serrated Profile Item No. |            | Material      | Panel Thickness Range |           | A Ref. |     | B Ref. |     | C Ref. |     | Roll Length | Pack Qty. |
|------------------------|-----------|---------------------------|------------|---------------|-----------------------|-----------|--------|-----|--------|-----|--------|-----|-------------|-----------|
| Natural                | Black     | Natural                   | Black      |               | in                    | mm        | in     | mm  | in     | mm  | in     | mm  | ft          |           |
| NGSG-2                 | —         | SNGSG-2                   | SNGSG-2B   | UL94 HB Nylon | 0.037 - 0.071         | 0.9 - 1.8 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| NGSG-2.5               | —         | SNGSG-2.5                 | —          | UL94 HB Nylon | 0.072 - 0.105         | 1.8 - 2.7 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| NGSG-3                 | —         | SNGSG-3                   | —          | UL94 HB Nylon | 0.106 - 0.164         | 2.7 - 4.2 | 0.188  | 4.8 | 0.047  | 1.2 | 0.156  | 4.0 | 100         | 1         |
| PGSG-2                 | PGSG-2B   | SPGSG-2                   | SPGSG-2B   | Polyethylene  | 0.037 - 0.071         | 0.9 - 1.8 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| PGSG-6                 | PGSG-6B   | SPGSG-6                   | —          | Polyethylene  | 0.037 - 0.071         | 0.9 - 1.8 | 0.160  | 4.1 | 0.025  | 0.6 | 0.060  | 1.5 | 100         | 1         |
| PGSG-2.5               | PGSG-2.5B | SPGSG-2.5                 | SPGSG-2.5B | Polyethylene  | 0.072 - 0.105         | 1.8 - 2.7 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| —                      | —         | SPGSG-7                   | —          | Polyethylene  | 0.072 - 0.105         | 1.8 - 2.7 | 0.188  | 4.8 | 0.035  | 0.9 | 0.100  | 2.5 | 100         | 1         |
| PGSG-3                 | PGSG-3B   | SPGSG-3                   | SPGSG-3B   | Polyethylene  | 0.106 - 0.164         | 2.7 - 4.2 | 0.188  | 4.8 | 0.047  | 1.2 | 0.156  | 4.0 | 100         | 1         |
| —                      | —         | SPGSG-8                   | —          | Polyethylene  | 0.106 - 0.164         | 2.7 - 4.2 | 0.188  | 4.8 | 0.035  | 0.9 | 0.156  | 4.0 | 100         | 1         |

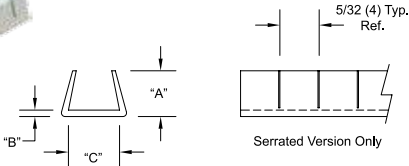
NGS/PGS/SNGS/SPGS Series  
Continuous Grommet Edging

Specifications:

- Material: See Table
- Color: See Table

Features:

- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible



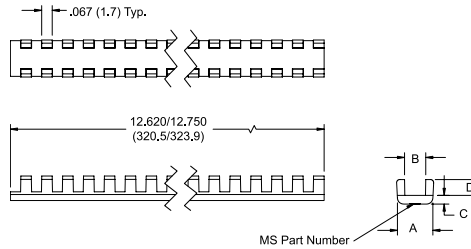
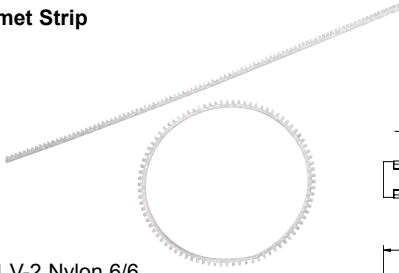
| Solid Profile Item No. |          | Serrated Profile Item No. |           | Material      | Panel Thickness Range |           | A Ref. |     | B Ref. |     | C Ref. |     | Roll Length | Pack Qty. |
|------------------------|----------|---------------------------|-----------|---------------|-----------------------|-----------|--------|-----|--------|-----|--------|-----|-------------|-----------|
| Natural                | Black    | Natural                   | Black     |               | in                    | mm        | in     | mm  | in     | mm  | in     | mm  | ft          |           |
| NGS-1                  | —        | SNGS-1                    | SNGS-1B   | UL94 HB Nylon | 0.026 - 0.036         | 0.7 - 0.9 | 0.125  | 3.2 | 0.031  | 0.8 | 0.031  | 0.8 | 100         | 1         |
| NGS-2                  | —        | SNGS-2                    | SNGS-2B   | UL94 HB Nylon | 0.037 - 0.071         | 0.9 - 1.8 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| —                      | —        | SNGS-2.5                  | SNGS-2.5B | UL94 HB Nylon | 0.072 - 0.105         | 1.8 - 2.7 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| —                      | —        | SNGS-3                    | SNGS-3B   | UL94 HB Nylon | 0.106 - 0.164         | 2.7 - 4.2 | 0.188  | 4.8 | 0.047  | 1.2 | 0.156  | 4.0 | 100         | 1         |
| —                      | —        | SNGS-4                    | SNGS-4B   | UL94 HB Nylon | 0.164 - 0.187         | 4.2 - 4.7 | 0.188  | 4.8 | 0.047  | 1.2 | 0.188  | 4.8 | 100         | 1         |
| —                      | —        | SNGS-5                    | —         | UL94 HB Nylon | 0.188 - 0.250         | 4.8 - 6.4 | 0.188  | 4.8 | 0.047  | 1.2 | 0.250  | 6.4 | 100         | 1         |
| PGS-1                  | PGS-1B   | SPGS-1                    | —         | Polyethylene  | 0.026 - 0.036         | 0.7 - 0.9 | 0.125  | 3.2 | 0.031  | 0.8 | 0.031  | 0.8 | 100         | 1         |
| PGS-2                  | —        | SPGS-2                    | —         | Polyethylene  | 0.037 - 0.071         | 0.9 - 1.8 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| PGS-2.5                | PGS-2.5B | SPGS-2.5                  | SPGS-2.5B | Polyethylene  | 0.072 - 0.105         | 1.8 - 2.7 | 0.172  | 4.4 | 0.031  | 0.8 | 0.109  | 2.8 | 100         | 1         |
| PGS-3                  | —        | SPGS-3                    | —         | Polyethylene  | 0.106 - 0.164         | 2.7 - 4.2 | 0.188  | 4.8 | 0.047  | 1.2 | 0.156  | 4.0 | 100         | 1         |



## GROMMET EDGING

### MGS Series

#### MS21266 Grommet Strip



#### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

#### Features:

- Ideally suited to cover normal and irregular shaped holes in sheet metal
- Complies with NASM21266
- Minimum hole diameter is 1"



| Item No. | Militart Part Number | Panel Thickness | A     | B     | C     | D     | Bulk Pack Qty. |
|----------|----------------------|-----------------|-------|-------|-------|-------|----------------|
| MGS-1-01 | MS21266-1N           | 0.015 - 0.052   | 0.150 | 0.056 | 0.055 | 0.100 | 100            |
| MGS-2-01 | MS21266-2N           | 0.052 - 0.085   | 0.175 | 0.090 | 0.055 | 0.100 | 100            |
| MGS-3-01 | MS21266-3N           | 0.085 - 0.128   | 0.220 | 0.131 | 0.055 | 0.100 | 100            |
| MGS-4-01 | MS21266-4N           | 0.128 - 0.192   | 0.325 | 0.195 | 0.070 | 0.160 | 100            |
| MGS-5-01 | MS21266-5N           | 0.192 - 0.255   | 0.385 | 0.260 | 0.070 | 0.170 | 100            |
| MGS-6-01 | MS21266-6N           | 0.255 - 0.318   | 0.445 | 0.320 | 0.075 | 0.180 | 100            |
| MGS-8-01 | MS21266-8N           | 0.380 - 0.510   | 0.640 | 0.515 | 0.075 | 0.180 | 50             |

### RG Series

#### Rubber Grommet Edging

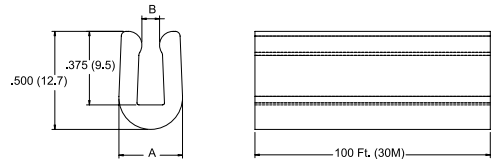


#### Specifications:

- Material: TPE
- Color: Black

#### Features:

- Supplied in rolls that can be cut to required length
- Prevents wires and cables from chafing against sharp edges



| Item No. | Fits Panel Thickness |     | A Ref |     | B Max |     | Roll Length |    | Pack Qty. |
|----------|----------------------|-----|-------|-----|-------|-----|-------------|----|-----------|
|          | in                   | mm  | in    | mm  | in    | mm  | ft          | m  |           |
| RG-1     | 0.063                | 1.6 | 0.264 | 6.7 | 0.030 | 0.8 | 100         | 30 | 1         |
| RG-2     | 0.093                | 2.4 | 0.293 | 7.4 | 0.060 | 1.5 | 100         | 30 | 1         |
| RG-3     | 0.125                | 3.2 | 0.324 | 8.2 | 0.090 | 2.3 | 100         | 30 | 1         |

### GRE Series

#### PVC Grommet Edging

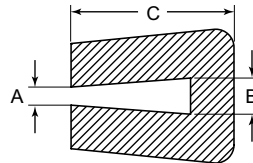


#### Specifications:

- Material: Soft PVC
- Color: Black

#### Features:

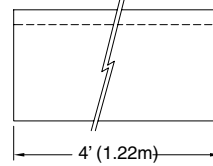
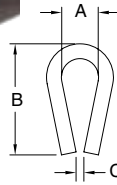
- Protects sharp or delicate edges
- Fits irregular shapes and a range of panel thicknesses
- PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



| Item No.  | Panel Thickness A |      | Panel Thickness B |      | Overall Width C |       | Roll Length |    | Pack Qty. |
|-----------|-------------------|------|-------------------|------|-----------------|-------|-------------|----|-----------|
|           | in                | mm   | in                | mm   | in              | mm    | ft          | m  |           |
| GRE32343A | 0.031             | 0.78 | 0.047             | 1.19 | 0.276           | 7.01  | 164         | 50 | 1         |
| GRE34074A | 0.039             | 0.99 | 0.079             | 2.00 | 0.315           | 8.00  | 164         | 50 | 1         |
| GRE34075A | 0.059             | 1.49 | 0.110             | 2.79 | 0.374           | 9.50  | 164         | 50 | 1         |
| GRE34076A | 0.106             | 2.69 | 0.149             | 3.78 | 0.413           | 10.49 | 164         | 50 | 1         |
| GRE34077A | 0.146             | 3.70 | 0.204             | 5.18 | 0.433           | 11.00 | 164         | 50 | 1         |
| GRE34078A | 0.209             | 5.30 | 0.267             | 6.78 | 0.512           | 13.00 | 164         | 50 | 1         |



### DSC Series Nylon Grommet Edging



#### Specifications:

- Material: UL94 HB  
MDS Filled Nylon
- Color: Gray

#### Features:

- Used as wear strips, non-abrasive edging, noise-reducing conveyor strips, framing, binding, or to protect from sharp edges
- Built-in lubricant for reduced friction and longer part life
- Resistant to ordinary solvents, mild acids and alkalis or fungus growth
- Comes in 4 foot lengths that can be cut to desired length



| Item No. | A Fits Panel Thickness |     | B     |      | C Ref |     | Wall Thickness |     | Length |      | Bulk Pack Qty. | Pack Qty. |
|----------|------------------------|-----|-------|------|-------|-----|----------------|-----|--------|------|----------------|-----------|
|          | in                     | mm  | in    | mm   | in    | mm  | in             | mm  | ft     | m    |                |           |
| DSC-5-48 | 0.062                  | 1.6 | 0.300 | 7.6  | 0.031 | 0.8 | 0.031          | 0.8 | 4      | 1.22 | 100 Ft         | 1         |
| DSC-1-48 | 0.125                  | 3.2 | 0.375 | 9.5  | 0.020 | 0.5 | 0.047          | 1.2 | 4      | 1.22 | 100 Ft         | 1         |
| DSC-2-48 | 0.188                  | 4.8 | 0.500 | 12.7 | 0.031 | 0.8 | 0.047          | 1.2 | 4      | 1.22 | 100 Ft         | 1         |
| DSC-3-48 | 0.250                  | 6.4 | 0.625 | 15.9 | 0.045 | 1.1 | 0.063          | 1.6 | 4      | 1.22 | 100 Ft         | 1         |

### CH Series Polystyrene Channel

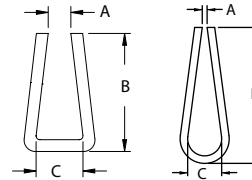


#### Specifications:

- Material: ULB94 HB  
Polystyrene
- Color: White

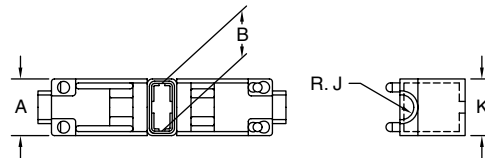
#### Features:

- Protects from sharp edges
- Binds and frames
- Sold in 4 foot lengths that can be cut to desired length



| Item No.     | Fits Panel Thickness |     | A Ref |     | B Ref |      | C Min. |     | Figure | Length |      | Bulk Pack Qty. | Pack Qty. |
|--------------|----------------------|-----|-------|-----|-------|------|--------|-----|--------|--------|------|----------------|-----------|
|              | in                   | mm  | in    | mm  | in    | mm   | in     | mm  |        | ft     | m    |                |           |
| CH200X250-48 | 0.250                | 6.4 | 0.200 | 5.1 | 0.375 | 9.5  | 0.25   | 6.4 | 1      | 4      | 1.22 | 100 ft         | 1         |
| CH15X50-48   | 0.050                | 1.3 | 0.015 | 0.4 | 0.437 | 11.1 | 0.05   | 1.3 | 1      | 4      | 1.22 | 100 ft         | 1         |
| CH20X141-48  | 0.140                | 3.6 | 0.020 | 0.5 | 0.562 | 14.3 | 0.14   | 3.6 | 2      | 4      | 1.22 | 100 ft         | 1         |

### OS Series Straight Terminal Insulator

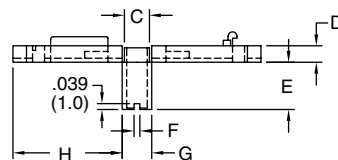


#### Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

#### Features:

- Insulating sleeve for straight type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle



| Item No. | Approval | Terminal Type            | Ø Wire |     | A     |     | B     |     | C     |     | D     |     | E     |     | F     |     | G     |     | H     |      | R.J   |     | K     |     | Bulk Pack Qty. |
|----------|----------|--------------------------|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|----------------|
|          |          |                          | in     | mm  | in    | mm  | in    | mm  | in    | mm  | in    | mm  | in    | mm  | in    | mm  | in    | mm  | in    | mm   | in    | mm  | in    | mm  |                |
| OS-187   | UL       | Straight Type 187 Series | 9/64   | 3.6 | 0.346 | 8.8 | 0.240 | 6.1 | 0.106 | 2.7 | 0.102 | 2.6 | 0.268 | 6.8 | 0.039 | 1.0 | 0.154 | 3.9 | 0.594 | 15.1 | 0.071 | 1.8 | 0.295 | 7.5 | 500            |
| OS-250   | UL       | Straight Type 187 Series | 5/32   | 3.8 | 0.386 | 9.8 | 0.311 | 7.9 | 0.164 | 3.4 | 0.110 | 2.8 | 0.315 | 8.0 | 0.039 | 1.0 | 0.185 | 4.7 | 0.728 | 18.5 | 0.081 | 2.1 | 0.358 | 9.1 | 500            |



INSULATORS

OF Series  
Flag Terminal Insulator

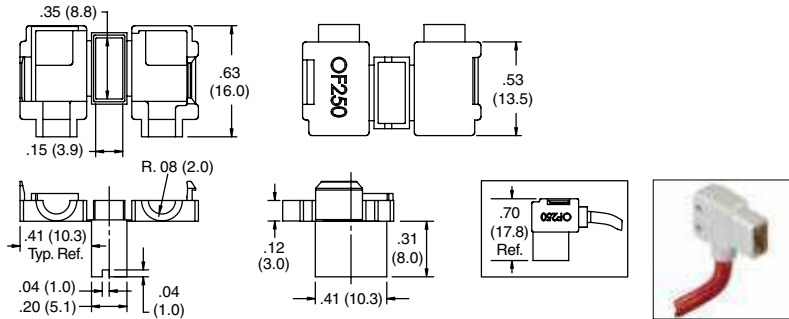


Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:

- Insulating sleeve for flag type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle



| Item No. | Approval | Terminal Type        | Wire Ø |     | Bulk Pack Qty. |
|----------|----------|----------------------|--------|-----|----------------|
|          |          |                      | in     | mm  |                |
| OF-250   | UL       | Flag Type 250 Series | 0.150  | 3.9 | 500            |

Quick Fit Straight Terminal Insulator

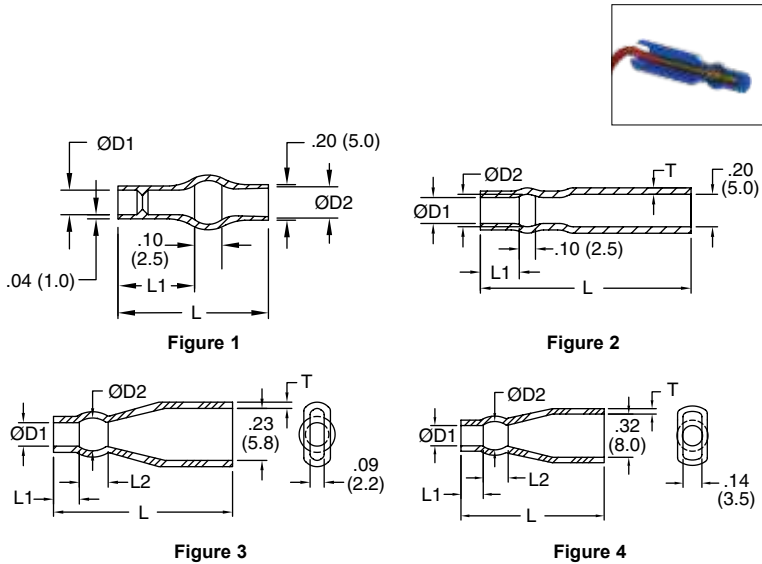


Specifications:

- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Range: 221°F (105°C)
- UL Voltage: 600V

Features:

- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper



| Item No. | Figure | Wire OD Range |         | Wire Gauge | Ø D1  |     | Ø D2  |     | L1    |     | L2    |     | L     |      | T   |     | Bulk Pack Qty. |
|----------|--------|---------------|---------|------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-----|-----|----------------|
|          |        | in            | mm      |            | in    | mm  | in    | mm  | in    | mm  | in    | mm  | in    | mm   | in  | mm  |                |
| 224225   | 1      | 0.580-0.091   | 1.5-2.3 | 22-18      | 0.100 | 2.5 | 0.160 | 4.1 | 0.240 | 6.1 | —     | —   | 0.510 | 13.0 | —   | —   | 1000           |
| 224230   | 1      | 0.068-0.113   | 1.7-2.9 | 20-18      | 0.120 | 3.0 | 0.160 | 4.1 | 0.240 | 6.1 | —     | —   | 0.510 | 13.0 | —   | —   | 1000           |
| 215025   | 2      | 0.580-0.091   | 1.5-2.3 | 22-18      | 0.100 | 2.5 | 0.160 | 4.1 | 0.240 | 6.1 | —     | —   | 1.300 | 33.0 | .04 | 1.0 | 1000           |
| 215032   | 2      | 0.071-0.126   | 1.8-3.2 | 18-16      | 0.130 | 3.3 | 0.180 | 4.6 | 0.280 | 7.1 | —     | —   | 1.340 | 34.0 | .04 | 1.0 | 1000           |
| 235830   | 3      | 0.580-0.091   | 1.5-2.3 | 20-18      | 0.120 | 3.0 | 0.160 | 4.0 | 0.200 | 5.0 | 0.100 | 2.5 | 0.910 | 23.0 | .03 | .08 | 1000           |
| 235835   | 3      | 0.071-0.140   | 1.8-3.6 | 18-14      | 0.140 | 3.5 | 0.180 | 4.5 | 0.200 | 5.0 | 0.120 | 3.0 | 0.910 | 23.0 | .03 | .08 | 1000           |
| 238032   | 4      | 0.071-0.126   | 1.8-3.2 | 18-16      | 0.130 | 3.3 | 0.190 | 4.8 | 0.200 | 5.1 | 0.100 | 2.5 | 0.950 | 24.1 | .04 | 1.0 | 1000           |
| 238035   | 4      | 0.071-0.140   | 1.8-3.6 | 18-14      | 0.140 | 3.6 | 0.180 | 4.6 | 0.200 | 5.1 | 0.120 | 3.0 | 0.950 | 24.1 | .04 | 1.0 | 1000           |
| 238040   | 4      | 0.091-0.140   | 2.3-3.6 | 16-14      | 0.160 | 4.1 | 0.200 | 5.1 | 0.200 | 5.1 | 0.120 | 3.0 | 0.970 | 24.6 | .04 | 1.0 | 1000           |
| 238048   | 4      | 0.113-0.190   | 2.9-4.8 | 14-12      | 0.190 | 4.8 | 0.250 | 6.3 | 0.200 | 5.1 | 0.100 | 2.5 | 0.980 | 24.6 | .04 | 1.0 | 1000           |

Quick Fit Flag Terminal Insulator

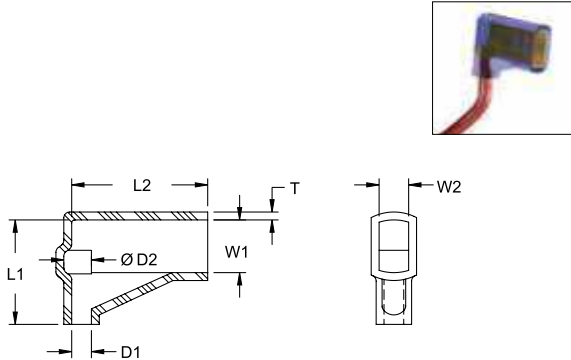


Specifications:

- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Range: 221°F (105°C)
- UL Voltage: 600V

Features:

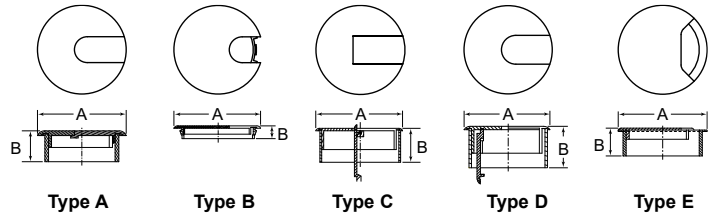
- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper



| Item No. | Wire OD Range |           | Wire Gauge | Ø D1  |     | Ø D2  |     | L1    |      | L2    |      | W1    |     | W2    |     | T     |     | Bulk Pack Qty. |
|----------|---------------|-----------|------------|-------|-----|-------|-----|-------|------|-------|------|-------|-----|-------|-----|-------|-----|----------------|
|          | in            | mm        |            | in    | mm  | in    | mm  | in    | mm   | in    | mm   | in    | mm  | in    | mm  | in    | mm  |                |
| 248532   | 0.071 - 0.126 | 1.8 - 3.2 | 18 - 16    | 0.130 | 3.2 | 0.170 | 4.2 | 0.530 | 13.5 | 0.690 | 17.5 | 0.340 | 8.5 | 0.180 | 4.5 | 0.040 | 1.0 | 1000           |
| 248548   | 0.133 - 0.190 | 2.9 - 4.8 | 14 - 12    | 0.190 | 4.8 | 0.230 | 5.8 | 0.530 | 13.5 | 0.690 | 17.5 | 0.340 | 8.5 | 0.180 | 4.5 | 0.040 | 1.0 | 1000           |



### WMRG Series Round Desk Grommets



#### Specifications:

- Material: ABS or PS
- Color: Black
- Surface Finish: Textured or Polished

#### Features:

- Used extensively on office furniture and computer desks to eliminate the clutter of wires and cables
- Several shapes and styles; most can be coordinated to match the color of your desk surface
- Layer packed for your convenience and to protect the surface during shipping



| Item No. | Type | Style   | A<br>in | B<br>in | Ø To Fit Hole<br>in | Material | Surface Finish | Bulk Pack Qty. |
|----------|------|---------|---------|---------|---------------------|----------|----------------|----------------|
| WMRG100A | A    | 3-PIECE | 1.500   | 0.469   | 1.250               | ABS      | Textured       | 1000           |
| WMRG110B | D    | 3-PIECE | 2.250   | 1.000   | 2.000               | ABS      | Polished       | 400            |
| WMRG130A | D    | 3-PIECE | 2.250   | 1.000   | 2.000               | ABS      | Textured       | 600            |
| WMRG140A | B    | 2-PIECE | 3.000   | 0.540   | 2.500               | ABS      | Textured       | 750            |
| WMRG160A | C    | 3-PIECE | 3.000   | 1.050   | 2.750               | ABS      | Textured       | 400            |
| WMRG170C | A    | 3-PIECE | 3.000   | 1.050   | 2.750               | ABS      | Polished       | 300            |
| WMRG180B | E    | 2-PIECE | 3.625   | 1.100   | 3.250               | PS       | Textured       | 240            |
| WMRG190B | D    | 3-PIECE | 2.250   | 1.000   | 2.000               | ABS      | Textured       | 400            |

### WMUG Series Round Umbrella Table Grommets

#### Specifications:

- Material: K-Resin
- Color: Clear

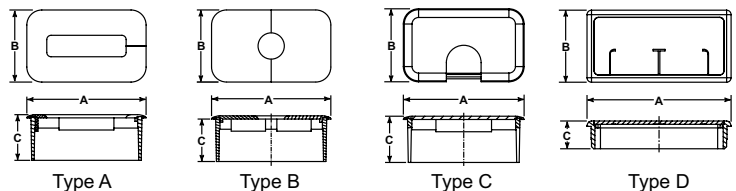


#### Features:

- Umbrella grommets are used on patio and casual furniture to protect tables from umbrella damage
- The plug finishes the table when the umbrella is not present

| Item No. | Ø To Fit Hole<br>in | Type         | Pack Qty. | Bulk Pack Qty. |
|----------|---------------------|--------------|-----------|----------------|
| WMUG100C | 2.000               | Bushing/Ring | 1         | 900            |
| WMUG110D | fits into WMUG100C  | Cover/Lid    | 1         | 900            |

### WMTG Series Rectangular Table Grommets



#### Specifications:

- Material: See Table
- Color: Black
- Surface Finish: Textured

#### Features:

- Wire management grommets are used extensively on office furniture and computer desks to eliminate the clutter of wires and cables

| Item No. | Type | Style   | A<br>in | B<br>in | C<br>in | Ø To Fit Hole<br>in | Material      | Surface Finish | Bulk Pack Qty. |
|----------|------|---------|---------|---------|---------|---------------------|---------------|----------------|----------------|
| WMTG100A | B    | 3-Piece | 3.500   | 2.125   | 0.700   | 3.250 x 1.875       | ABS           | Textured       | 525            |
| WMTG110A | B    | 3-Piece | 3.500   | 2.125   | 1.250   | 3.230 x 1.865       | ABS           | Textured       | 315            |
| WMTG120A | A    | 2-Piece | 3.475   | 2.102   | 1.250   | 3.250 x 1.865       | ABS           | Textured       | 189            |
| WMTG150A | B    | 2-Piece | 3.500   | 2.134   | 1.287   | 3.250 x 1.865       | ABS           | Textured       | 320            |
| WMTG170A | C    | 2-Piece | 3.365   | 2.245   | 1.750   | 3.125 x 2.000       | ABS           | Textured       | 204            |
| WMTG180A | D    | 2-Piece | 4.020   | 2.010   | 0.775   | 3.770 x 1.750       | Polypropylene | Textured       | 288            |