Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification

# PART NO. 5430/12

## Construction

| | | | | | |
|---|---|---|---|---|---|
| | | | | | **Diameters (In)** |
| 1) Component 1 | | 12 X 1 COND | | | |
| a) Conductor | | 18 (16/30) AWG TC | | | 0.047 |
| b) Insulation | | 0.032" Wall, Nom. PVC | | | 0.111 |
| (1) Color Code | | Alpha Wire Color Code E | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 5 | YELLOW | 9 | SLATE |
| 2 | BROWN | 6 | GREEN | 10 | WHITE |
| 3 | RED | 7 | BLUE | 11 | WHITE/BLACK |
| 4 | ORANGE | 8 | VIOLET | 12 | WHITE/BROWN |
| 2) Cable Assembly | | 12 Components Cabled | | | |
| a) Twists: | | 2.2 Twists/foot (min) | | | |
| b) Core Wrap | | Nonwoven Polyester Tape, 25% Overlap, Min. | | | |
| 3) Shield: | | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| a) Foil Direction | | Foil Facing In | | | |
| b) Drain Wire | | 18 (16/30) AWG TC | | | |
| 4) Jacket | | 0.063" Wall, Nom.,PVC | | | 0.595 (0.624 Max.) |
| a) Color(s) | | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | | | |
| b) Ripcord | | 1 End 810 Denier Nylon | | | |
| c) Print | | ALPHA WIRE-* P/N 5430/12 12C 18 AWG<br>XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C<br>600V OR AWM 21896 105C 600V SUN RES 60C OIL<br>VW-1 --- LLXXXXXX CSA AWM I/II A/B 105C 600V<br>FT4 CE ROHS (SEQ FOOTAGE)<br>* = Factory Code<br>*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]* | | | |

## Applicable Specifications

| | | |
|---|---|---|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 1015 | 105°C / 600 $V_{RMS}$ |
| | MTW | 90°C Dry / 60°C Wet / 600 $V_{RMS}$ |
| b) Overall | MTW | 90°C Dry / 60°C Wet / 600 $V_{RMS}$ |
| | AWM/STYLE 21896 | 105°C / 600 $V_{RMS}$ |
| | SUN RES | |
| | 60C OIL | |
| | AWM/STYLE 2501 | 105°C / 600 $V_{RMS}$ |
| | VW-1 | |
| 2) CSA International | | |
| a) Component 1 | TEW | 105°C / 600 $V_{RMS}$ |
| b) Overall | AWM I/II A/B | 105°C / 600 $V_{RMS}$ |
| | FT4 | |
| 3) IEC | EN 60332-1 Flame Behavior | |
| | EN 60332-2 Flame Behavior | |
| 4) CE: | EU Low Voltage Directive 2006/95/EC | |

## Environmental

| | |
|---|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2): | |
| | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C. |
| 2) REACH Regulation (EC 1907/2006): | |
| | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration. |
| 3) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

## Properties

| Physical & Mechanical Properties | |
|---|---|
| 1) Temperature Range | -30 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 163 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 600 $V_{RMS}$ |
| 2) Capacitance | 36 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 65 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.22 µH/ft, Nominal |
| 5) Conductor DCR | 7.2 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 5.4 Ω/1000ft @20°C, Nominal |

## Other

| Packaging | Flange x Traverse x Barrel (inches) |
|---|---|
| a) 1000 FT | 30 x 14 x 12 Continuous length |
| b) 500 FT | 24 x 14 x 12 Continuous length |
| c) 100 FT | 16 x 11 x 8 Continuous length |
| d) Bulk(Made-to-order) | |
| | *[Spool dimensions may vary slightly]* |

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5430/12

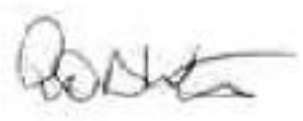
5430/12 , RoHS-Compliant Commencing With 8/1/2005 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS “Marking for Control of Pollution by Electronic Information Products” standard SJ/T 11364-2006.

| **Substance** | **Maximum Control Value** |
|---|---|
| Lead | 0.1% by weight (1000 ppm) |
| Mercury | 0.1% by weight (1000 ppm) |
| Cadmium | 0.01% by weight (100 ppm) |
| Hexavalent Chromium | 0.1% by weight (1000 ppm ) |
| Polybrominated Biphenyls (PBB) | 0.1% by weight (1000 ppm) |
| Polybrominated Diphenyl Ethers (PBDE) , Including Deca-BDE | 0.1% by weight (1000 ppm) |

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA — 8/6/2015

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