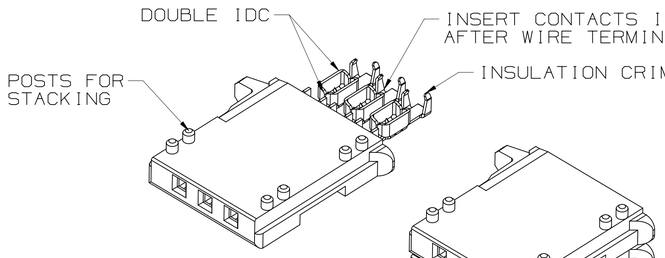
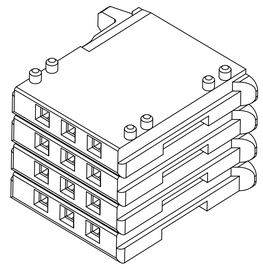
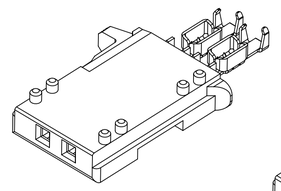
3M™ MINI STACK CONNECTOR, WIREMOUNT SOCKET STACK TYPE 3S50X-SX30 SERIES



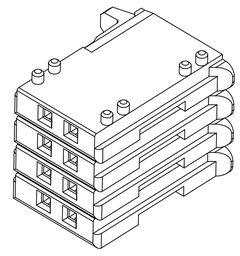
3 POSITION SOCKET
3S503-SX30-X00 PN



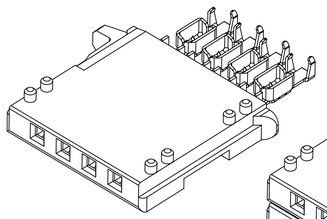
STACKED CONDITION
TERMINALS INSERTED



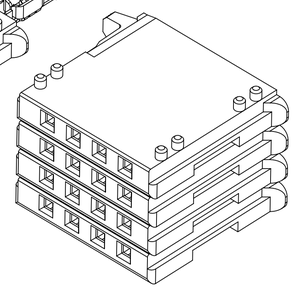
2 POSITION SOCKET
3S502-SX30-X00 PN



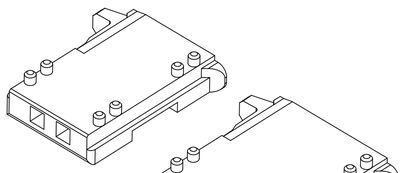
STACKED CONDITION
TERMINALS INSERTED



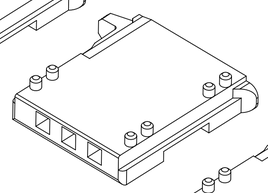
4 POSITION SOCKET
3S504-SX30-X00 PN



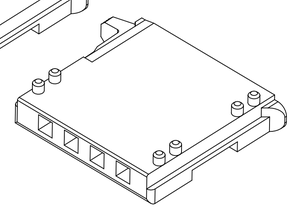
STACKED CONDITION
TERMINALS INSERTED



2 POSITION DUST COVER
3SD02-S01



3 POSITION DUST COVER
3SD03-S01



4 POSITION DUST COVER
3SD04-S01

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
http://www.3M.com/interconnect

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INFORMATION CALL 800-225-5373

* COMPACT FORM - CONNECTORS MAY BE STACKED.
* INTEGRATED TERMINAL AND HOUSING.
* DOUBLE IDC WIRE TERMINATION.
* ACCOMODATES WIRE SIZES 22 - 30 AWG.
* 2 TO 4 POSITION CONNECTOR.
* DUST COVER FOR USE WHEN LESS THAN 4 SOCKETS ARE STACKED.

[2] PHYSICAL:

INSULATOR:	
MATERIAL:	PBT RESIN
COLOR:	BLACK OR GRAY
CONTACT:	
MATERIAL:	COPPER ALLOY
PLATING:	
UNDER PLATING:	NICKEL OVERALL
WIPING AREA:	GOLD
IDC:	NICKEL

[2] ELECTRICAL:

VOLTAGE:	AC/DC: 32V MAX.
CURRENT:	22-26AWG: 2.0A MAX. 27-28AWG: 1.5A MAX. 29-30AWG: 1.0A MAX.

[2] ENVIRONMENTAL:

TEMPERATURE: -20° C TO 85° C

NOTES

1. REGULATORY INFORMATION: VISIT 3M.com/regs
2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
3. REFERNECE PRODUCT SPECIFICATION PS-0362 FOR WIREMOUNT SOCKET.
4. REFERENCE PRODUCT SPECIFICATION PS-0364 FOR DUST COVER.
5. SEE TECH SHEET TS-2726, TS-2768 FOR MATING HEADERS.
6. SEE TECH SHEET TS-2728 FOR HAND TOOL.

WIRE ACCOMMODATION		
AWG NO.	NOMINAL CONDUCTOR CROSS-SECTIONAL AREA mm² (mil²)	WIRE OD mm (mil)
24-22	0.2-0.3 (310-465)	0.6 to 1.5 (23.6 to 59.1)
30-25	0.05-0.19 (78-295)	

CONNECTOR ORDERING INFORMATION

3S50X-SX30-X00 PN

- TERMINAL QUANTITY:
  - 2 = 2 POSITIONS
  - 3 = 3 POSITIONS
  - 4 = 4 POSITIONS
- WIRE SIZE CODE:
  - 3 = 24-22 AWG (BLACK BODY REQ'D)
  - 5 = 30-25 AWG (GRAY BODY REQ'D)
- BODY TYPE:
  - S = STACK TYPE
- BODY COLOR:
  - B = BLACK (WIRE CODE 3)
  - G = GRAY (WIRE CODE 5)

DUST COVER (ORDER SEPARATELY)			
3M PART NUMBER	TERMINALS	MATERIAL	COLOR
3SD02-S01	2	PBT	GRAY
3SD03-S01	3		
3SD04-S01	4		

cULus
UL FILE NO : E68080
WIRE MOUNT SOCKET ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B	103559	APR 27,2022 UPDATE SHAPE UPDATE DESCRIPTION ADD 2POS ADD NON-STACK TYPE	TH	YK
A	95460	FEB 05,2021 INITIAL RELEASE	LDS	FJR

DESIGN REFERENCE | NEXT ASSEMBLY
ACCESS CODES
DRFT: L SCHMIDT — DATE: FEB 01,2021 — MFG — DATE
CHKD — DATE — APPD: F RODRIGUEZ — DATE: FEB 05,2021
DIVISION | DIVISION CODE
DO NOT SCALE DRAWING | SCALE: FREE
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2018
MAX SURFACE ROUGHNESS 125 □ALL SURFACES ☒MARKED ONLY
TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± / .00 ± / .000 ± / .0000 ±
MILLIMETERS: 0 ±.2 / .0 ±.5 / .00 ±0.13 / .000 ±.005
ANGLES ±1°

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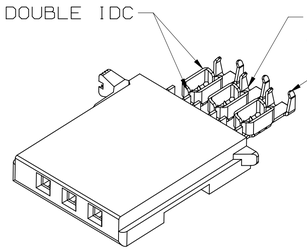
3M Center, St. Paul, MN 55144

TITLE: MINI STACK CONNECTOR WIREMOUNT SOCKET 3S50X-XX30-X00 PN

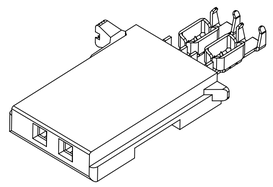
CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2725-9 | REV.: B
MODEL
DET. LISTS □YES ☒NO | SHT 1 OF 5

78-5100-2725-9 (DATA ONLY NUMBER) B (REVISION)

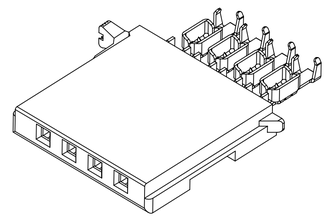
3M™ MINI STACK CONNECTOR, WIREMOUNT SOCKET NON-STACK TYPE 3S50X-NX30 SERIES



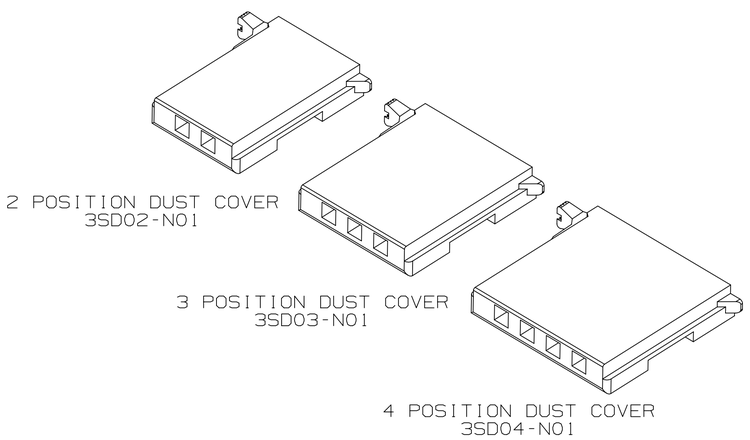
3 POSITION SOCKET
3S503-NX30-X00 PN



2 POSITION SOCKET
3S502-NX30-X00 PN



4 POSITION SOCKET
3S504-NX30-X00 PN



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* INTEGRATED TERMINAL AND HOUSING.
* DOUBLE IDC WIRE TERMINATION.
* ACCOMODATES WIRE SIZES 22 - 30 AWG.
* 2 TO 4 POSITION CONNECTOR.
* DUST COVER FOR USE WHEN LESS THAN 4 SOCKETS ARE MATED.

NOTES

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6. SEE TECH SHEET TS-2728 FOR HAND TOOL.

[2] PHYSICAL:

INSULATOR:	
MATERIAL:	PBT RESIN
COLOR:	BLACK OR GRAY
CONTACT:	
MATERIAL:	COPPER ALLOY
PLATING:	
UNDER PLATING:	NICKEL OVERALL
WIPING AREA:	GOLD
IDC:	NICKEL

[2] ELECTRICAL:

VOLTAGE:	AC/DC: 32V MAX.
CURRENT:	22-26AWG: 2.0A MAX. 27-28AWG: 1.5A MAX. 29-30AWG: 1.0A MAX.

[2] ENVIRONMENTAL:

TEMPERATURE: -20° C TO 85° C

WIRE ACCOMMODATION		
AWG NO.	NOMINAL CONDUCTOR CROSS-SECTIONAL AREA mm² (mil²)	WIRE OD mm (mil)
24-22	0.2-0.3 (310-465)	0.6 to 1.5 (23.6 to 59.1)
30-25	0.05-0.19 (78-295)	

CONNECTOR ORDERING INFORMATION

3S50X-NX30-X00 PN

- TERMINAL QUANTITY:
  - 2 = 2 POSITIONS
  - 3 = 3 POSITIONS
  - 4 = 4 POSITIONS
- WIRE SIZE CODE:
  - 3 = 24-22 AWG (BLACK BODY REQ'D)
  - 5 = 30-25 AWG (GRAY BODY REQ'D)
- BODY TYPE:
  - N = NON-STACK TYPE
- BODY COLOR:
  - B = BLACK (WIRE CODE 3)
  - G = GRAY (WIRE CODE 5)

DUST COVER (ORDER SEPARATELY)			
3M PART NUMBER	TERMINALS	MATERIAL	COLOR
3SD02-N01	2	PBT	GRAY
3SD03-N01	3		
3SD04-N01	4		

UL FILE NO : E68080
WIRE MOUNT SOCKET ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B	103559	APR 27,2022 UPDATE SHAPE UPDATE DESCRIPTION ADD 2POS ADD NON-STACK TYPE	TH	YK
A	95460	FEB 05,2021 INITIAL RELEASE	LDS	FJR

DESIGN REFERENCE | NEXT ASSEMBLY | ACCESS CODES | DIVISION | DIVISION CODE

DRFT: L SCHMIDT — DATE: FEB 01,2021 — MFG — DATE
CHKD — DATE — APPVD: F RODRIGUEZ — DATE: FEB 05,2021

DO NOT SCALE DRAWING | SCALE FREE | THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2018 | MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± | .00 ± | .000 ± | .0000 ±
MILLIMETERS: 0 ±2 | .0 ±.5 | .00 ±0.13 | .000 ±.005
ANGLES ±1°

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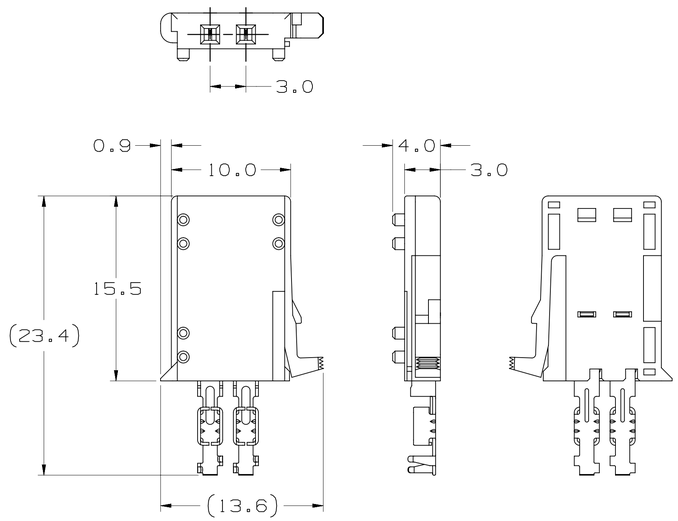
TITLE: MINI STACK CONNECTOR WIREMOUNT SOCKET 3S50X-XX30-X00 PN

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2725-9 | REV. B
MODEL
DET LISTS ☐ YES ☒ NO | SHT 2 OF 5

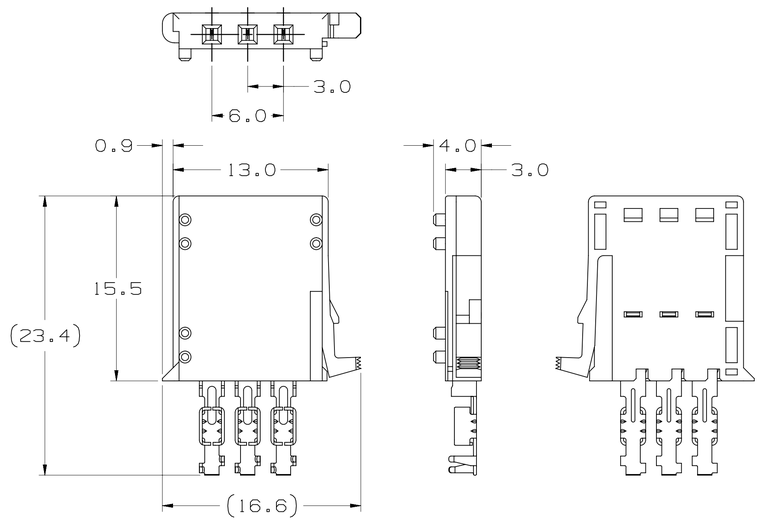
78-5100-2725-9 (DATA NO.) | B (REVISION)

3M™ MINI STACK CONNECTOR, WIREMOUNT SOCKET STACK TYPE
3S50X-SX30 SERIES

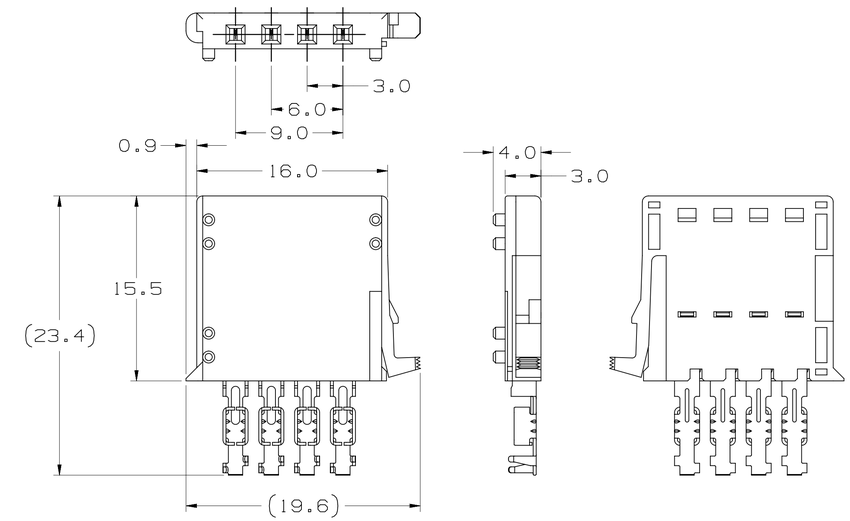
2 POSITION
3S502-SX30-X00 PN



3 POSITION
3S503-SX30-X00 PN

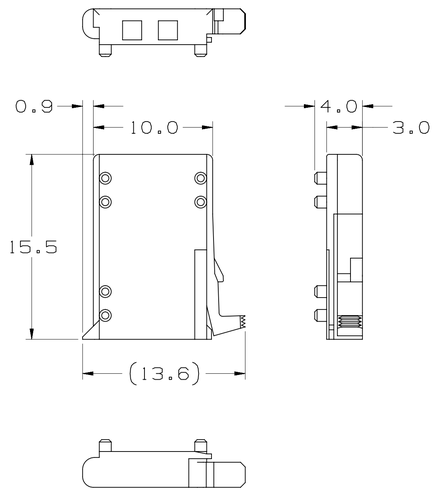


4 POSITION
3S504-SX30-X00 PN

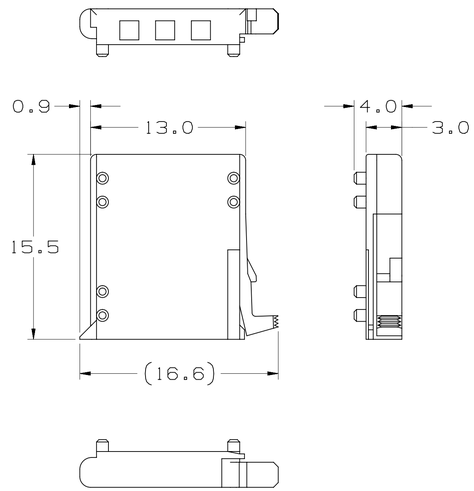




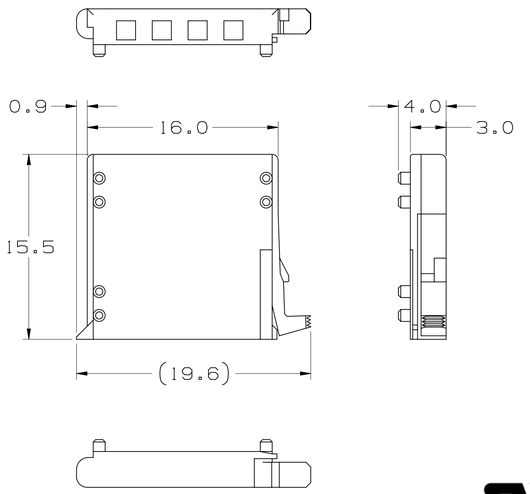
2 POSITION DUST COVER
3SD02-S01



3 POSITION DUST COVER
3SD03-S01



4 POSITION DUST COVER
3SD04-S01





UL FILE NO : E68080
WIRE MOUNT SOCKET ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B	103559	APR 27,2022 UPDATE SHAPE UPDATE DESCRIPTION ADD 2POS ADD NON-STACK TYPE	TH	YK
A	95460	FEB 05,2021 INITIAL RELEASE	LDS	FJR

DESIGN REFERENCE | NEXT ASSEMBLY
ACCESS CODES
DIVISION | DIVISION CODE

DRFT: L SCHMIDT — DATE: FEB 01,2021 — MFG — DATE
CHKD — DATE — APPD: F RODRIGUEZ — DATE: FEB 05,2021

DO NOT SCALE DRAWING | SCALE: FREE
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 2018
MAX SURFACE ROUGHNESS 125 □ ALL SURFACES ☒ MARKED ONLY

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± / .00 ± / .000 ± / .0000 ±
MILLIMETERS: 0 ±2 / .0 ±.5 / .00 ±0.13 / .000 ±.005
ANGLES ±1°

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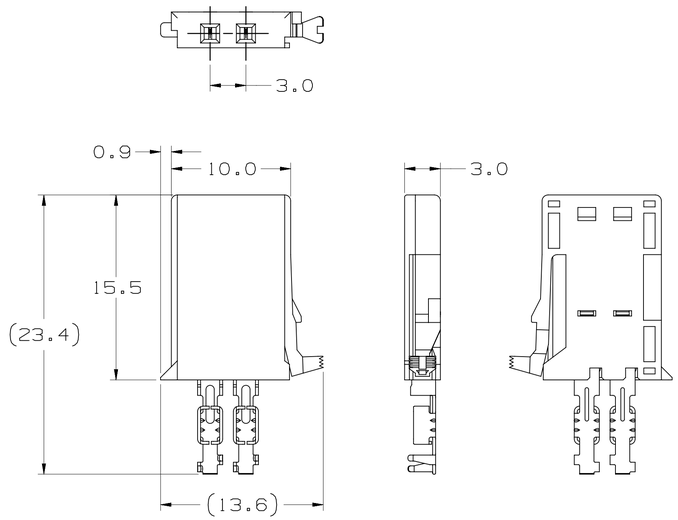
TITLE: MINI STACK CONNECTOR WIREMOUNT SOCKET 3S50X-XX30-X00 PN

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2725-9 | REV.: B
MODEL
DET. LIST: ☐ YES ☒ NO | SHT 3 OF 5

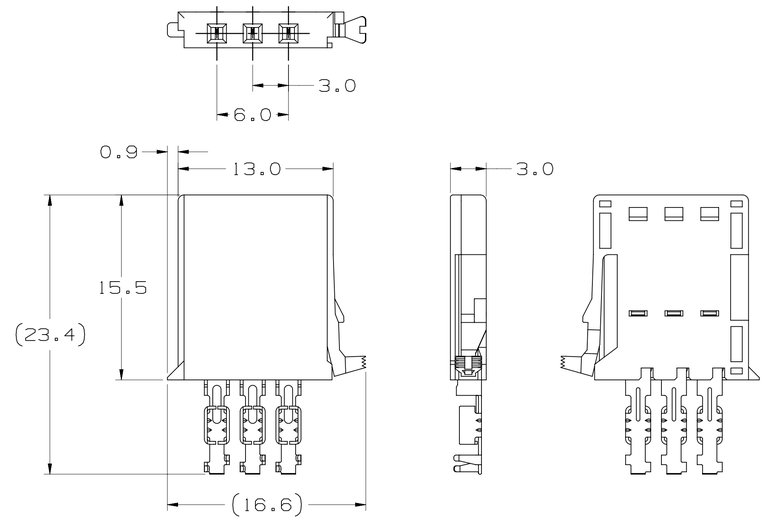
78-5100-2725-9 B
DRAWING NUMBER REVISION

3M™ MINI STACK CONNECTOR, WIREMOUNT SOCKET NON-STACK TYPE
3S50X-NX30 SERIES

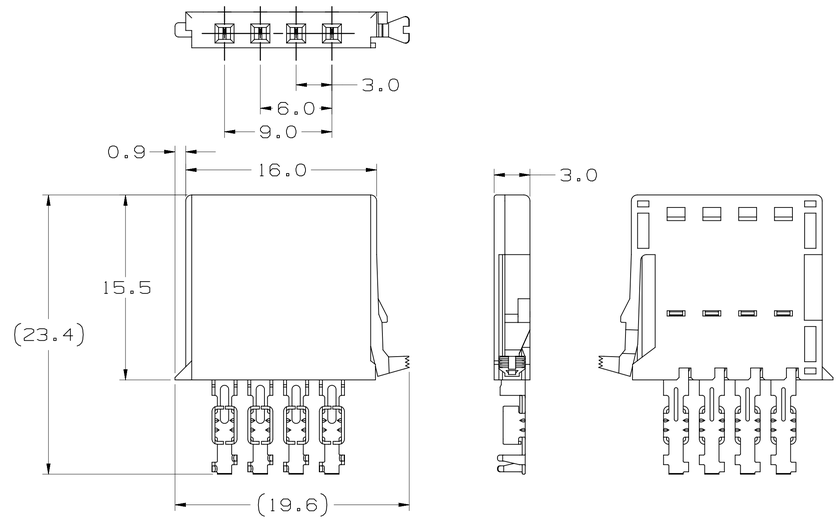
2 POSITION
3S502-NX30-X00 PN



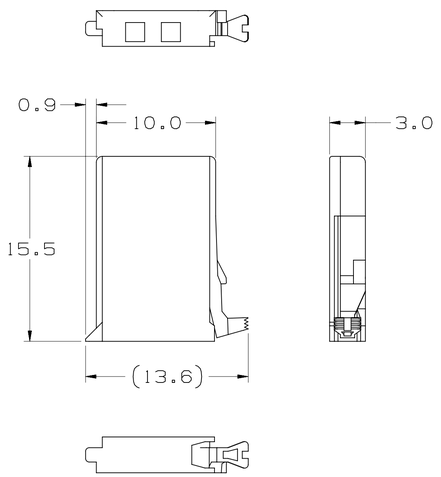
3 POSITION
3S503-NX30-X00 PN



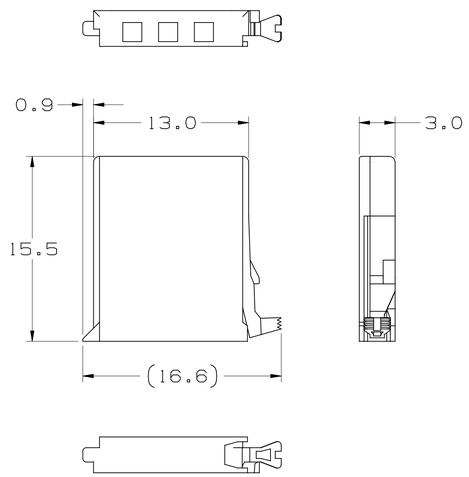
4 POSITION
3S504-NX30-X00 PN



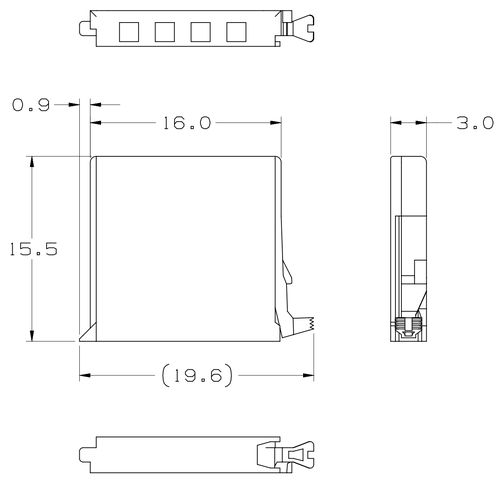
2 POSITION DUST COVER
3SD02-N01



3 POSITION DUST COVER
3SD03-N01



4 POSITION DUST COVER
3SD04-N01



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UL FILE NO : E68080
WIRE MOUNT SOCKET ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRAFT	CHKD
B	103559	APR 27,2022 UPDATE SHAPE UPDATE DESCRIPTION ADD 2POS ADD NON-STACK TYPE	TH	YK
A	95460	FEB 05,2021 INITIAL RELEASE	LDS	FJR

DESIGN REFERENCE | NEXT ASSEMBLY
ACCESS CODES
DRAFT: L SCHMIDT — DATE: FEB 01,2021 — MFG — DATE
CHKD — DATE — APPVD: F RODRIGUEZ — DATE: FEB 05,2021
DIVISION | DIVISION CODE

DO NOT SCALE DRAWING | SCALE FREE

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± | .00 ± | .000 ± | .0000 ±
MILLIMETERS: 0 ±2 | .0 ±.5 | .00 ±0.13 | .000 ±.005
ANGLES ±1°

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TITLE
MINI STACK CONNECTOR
WIREMOUNT SOCKET
3S50X-XX30-X00 PN

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2725-9 | REV. B
MODEL
DET LISTS ☐ YES ☒ NO | SHT 4 OF 5

78-5100-2725-9 DRAWING NUMBER | B REVISION

3M™ MINI STACK CONNECTOR, WIREMOUNT SOCKET
3S50X-XX30 SERIES

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Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
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www.3M.com/interconnect

c UL us
UL FILE NO : E68080
WIRE MOUNT SOCKET ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B	103559	APR 27,2022 UPDATE SHAPE UPDATE DESCRIPTION ADD 2POS ADD NON-STACK TYPE	TH	YK
A	95460	FEB 05,2021 INITIAL RELEASE	LDS	FJR

DESIGN REFERENCE | NEXT ASSEMBLY
ACCESS CODES
DIVISION | DIVISION CODE

DRFT	L SCHMIDT	DATE	FEB 01,2021
MFG		DATE	
CHKD		DATE	
APPVL	F RODRIGUEZ	DATE	FEB 05,2021

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INTERPRET PER ASME Y14.5 2018
MAX SURFACE ROUGHNESS 125 ☐ALL SURFACES ☒MARKED ONLY

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± / .00 ± / .000 ± / .0000 ±
MILLIMETERS: 0 ±2 / .0 ±.5 / .00 ±0.13 / .000 ±.005
ANGLES ±1°

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TITLE: MINI STACK CONNECTOR WIREMOUNT SOCKET 3S50X-XX30-X00 PN

CAGE NUMBER	SIZE	DRAWING NO.	REV.
	D	78-5100-2725-9	B

MODEL
DET. LISTS ☐YES ☒NO
SHT 5 OF 5

78-5100-2725-9 B REVISION