

Standard IDC 18-24 AWG: WTB

00-9176

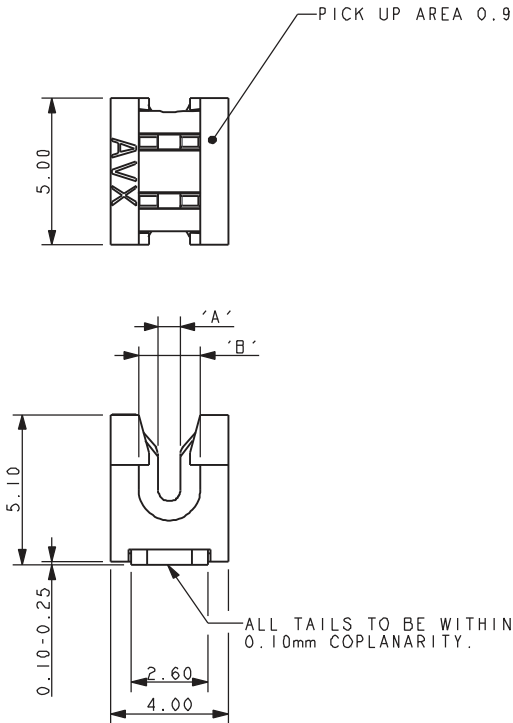


CONNECTOR/TOOLING PART NUMBER MATRIX

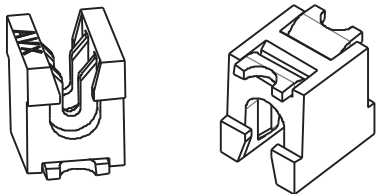
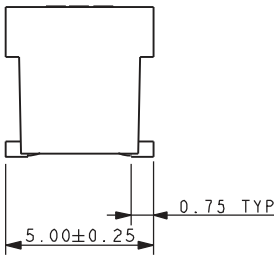
SERIES 9176 IDC					HAND INSERTION TOOLING*			ACCESSORY CAPS	
AWG	Wire Insulation	Positions	Color	Part Number	Plastic (medium volume)	Metal (high volume)	Mass Termination	Through Wire	Wire Stop
18	Ø 1.6 - 2.1	1p	Black	009176001001806	069176701601000	069176701701000	N/A	609176001021000	609176001021099
18	Ø 1.6 - 2.1	1p	White	009176001001906	069176701601000	069176701701000	N/A	609176001021100	609176001021199
18	Ø 1.6 - 2.1	2p	Black	009176002001806	069176701601000	069176701701000	069176701701002	609176002021000	609176002021099
18	Ø 1.6 - 2.1	2p	White	009176002001906	069176701601000	069176701701000	069176701701002	609176002021100	609176002021199
18	Ø 1.6 - 2.1	3p	Black	009176003001806	069176701601000	069176701701000	069176701701003	609176003021000	609176003021099
18	Ø 1.6 - 2.1	3p	White	009176003001906	069176701601000	069176701701000	069176701701003	609176003021100	609176003021199
20	Ø 1.6 - 2.1	1p	Black	009176001011806	069176701601000	069176701701000	N/A	609176001021000	609176001021099
20	Ø 1.6 - 2.1	1p	White	009176001011906	069176701601000	069176701701000	N/A	609176001021100	609176001021199
20	Ø 1.6 - 2.1	2p	Black	009176002011806	069176701601000	069176701701000	069176701701002	609176002021000	609176002021099
20	Ø 1.6 - 2.1	2p	White	009176002011906	069176701601000	069176701701000	069176701701002	609176002021100	609176002021199
20	Ø 1.6 - 2.1	3p	Black	009176003011806	069176701601000	069176701701000	069176701701003	609176003021000	609176003021099
20	Ø 1.6 - 2.1	3p	White	009176003011906	069176701601000	069176701701000	069176701701003	609176003021100	609176003021199
22	Ø 1.1 - 1.6	1p	Black	009176001022806	069176701602000	069176701702000	N/A	609176001016000	609176001016099
22	Ø 1.1 - 1.6	1p	White	009176001022906	069176701602000	069176701702000	N/A	609176001016100	609176001016199
22	Ø 1.1 - 1.6	2p	Black	009176002022806	069176701602000	069176701702000	069176701702002	609176002016000	609176002016099
22	Ø 1.1 - 1.6	2p	White	009176002022906	069176701602000	069176701702000	069176701702002	609176002016100	609176002016199
22	Ø 1.1 - 1.6	3p	Black	009176003022806	069176701602000	069176701702000	069176701702003	609176003016000	609176003016099
22	Ø 1.1 - 1.6	3p	White	009176003022906	069176701602000	069176701702000	069176701702003	609176003016100	609176003016199
24	Ø 1.1 - 1.6	1p	White	009176001032106	069176701602000	069176701702000	N/A	609176001016100	609176001016199
24	Ø 1.1 - 1.6	1p	Black	009176001032806	069176701602000	069176701702000	N/A	609176001016000	609176001016099
24	Ø 1.1 - 1.6	1p	White	009176001032906	069176701602000	069176701702000	N/A	609176001016100	609176001016199
24	Ø 1.1 - 1.6	2p	Black	009176002032806	069176701602000	069176701702000	069176701702002	609176002016000	609176002016099
24	Ø 1.1 - 1.6	2p	White	009176002032906	069176701602000	069176701702000	069176701702002	609176002016100	609176002016199
24	Ø 1.1 - 1.6	3p	Black	009176003032806	069176701602000	069176701702000	069176701702003	609176003016000	609176003016099
24	Ø 1.1 - 1.6	3p	White	009176003032906	069176701602000	069176701702000	069176701702003	609176003016100	609176003016199

* Hand Insertion Tooling - Universal Hand Tool 067000773001000; Consult Application Notes 201-01-124

18-24 AWG 1 WAY IDC CONNECTOR

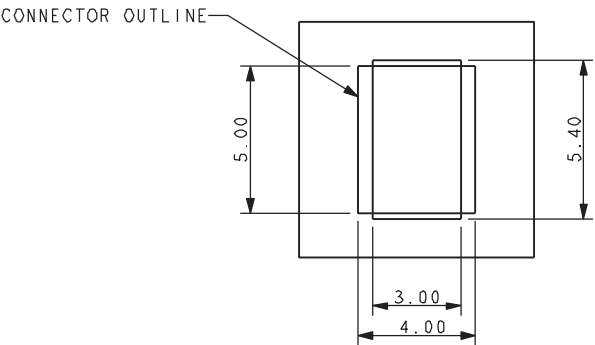


- NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 1.
 3. CONTACTS DESIGNED TO ACCEPT BETWEEN 20AWG AND 24AWG SOLID AND STRANDED WIRES. 18AWG WILL ONLY ACCEPT STRANDED WIRES, SEE TABLE.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-106
 6. APPLICATION NOTES 201-01-124.
 7. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO PAGE 6.
 8. FOR HAND WIRE ASSEMBLY TOOLING REFER TO PAGE 8.
 9. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
 10. ALL DIMENSIONS ± 0.20 TOLERANCE SPECIFIED.



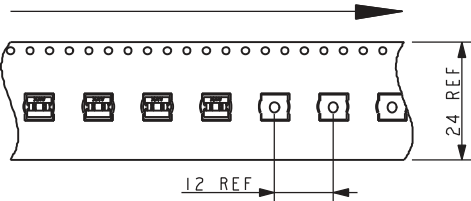
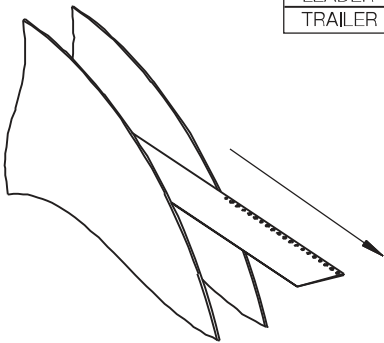
Code	Accepted Wire Gauge	A	Wire Insulation	B
001	18AWG Stranded	0.72	$\varnothing$ 1.6-2.1	2.1
011	20AWG Solid and Stranded	0.60	$\varnothing$ 1.6-2.1	2.1
022	22AWG Solid and Stranded	0.47	$\varnothing$ 1.1-1.6	1.6
032	24AWG Solid and Stranded	0.37	$\varnothing$ 1.1-1.6	1.6

SMT PCB LAYOUT
PURE TIN PADS

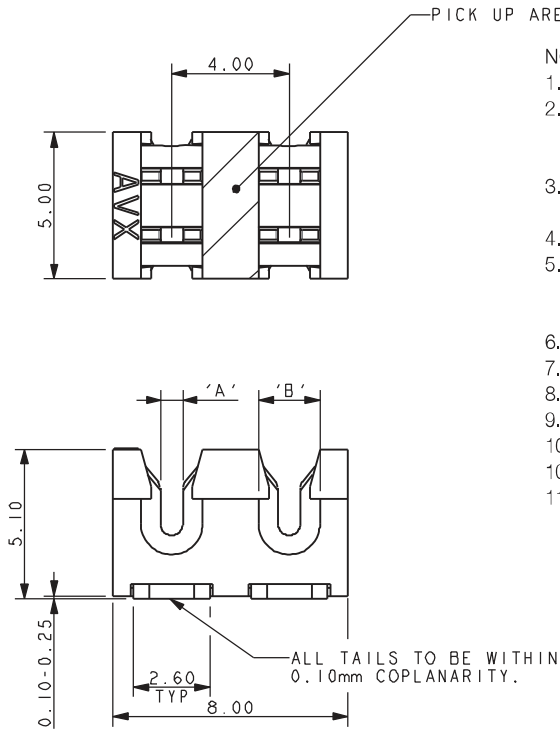


PACKING DETAILS

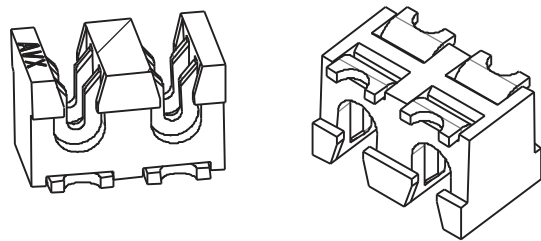
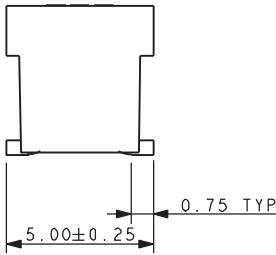
REEL QTY	1000
LEADER	480MM
TRAILER	120MM



18-24 AWG 2 WAY IDC CONNECTOR

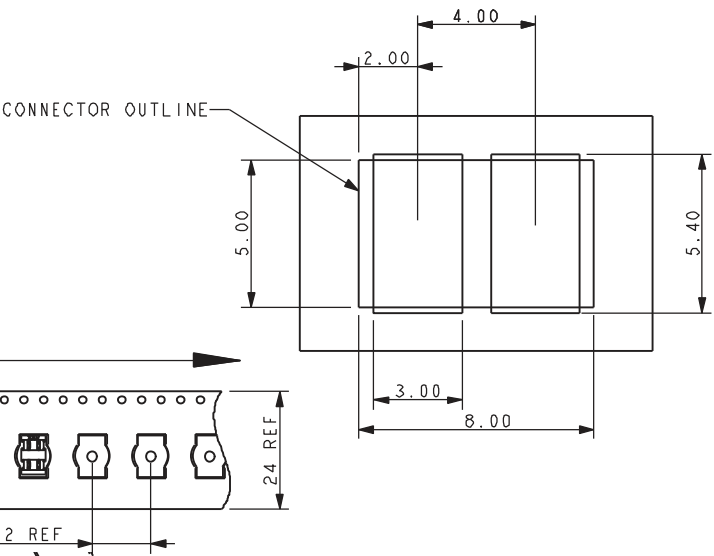


- NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 1.
 3. CONTACTS DESIGNED TO ACCEPT BETWEEN 20AWG AND 24AWG SOLID AND STRANDED WIRES. 18AWG WILL ONLY ACCEPT STRANDED WIRES, SEE TABLE.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-106. UL COMPONENTS REFER TO ELCO SPECIFICATION 201-01-106UL.
 6. APPLICATION NOTES 201-01-124.
 7. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO PAGE 6.
 8. FOR HAND WIRE ASSEMBLY TOOLING REFER TO PAGE 8.
 9. FOR PRESS WIRE ASSEMBLY TOOLING REFER TO PAGE 9
 10. FOR ACCESSORY CAPS REFER TO PAGE 6 AND 7.
 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
 11. ALL DIMENSIONS ± 0.20 TOLERANCE SPECIFIED.



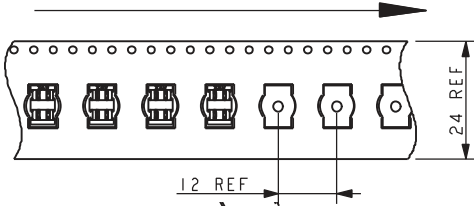
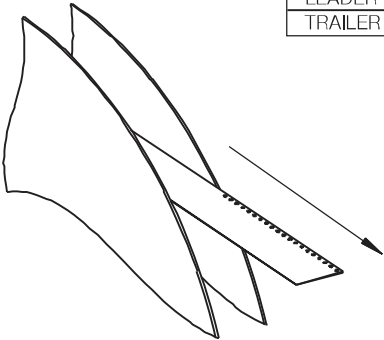
Code	Accepted Wire Gauge	A	Wire Insulation	B
001	18AWG Stranded	0.72	Ø 1.6-2.1	2.1
011	20AWG Solid and Stranded	0.60	Ø 1.6-2.1	2.1
022	22AWG Solid and Stranded	0.47	Ø 1.1-1.6	1.6
032	24AWG Solid and Stranded	0.37	Ø 1.1-1.6	1.6

SMT PCB LAYOUT
PURE TIN PADS



PACKING DETAILS

REEL QTY	1000
LEADER	480MM
TRAILER	120MM



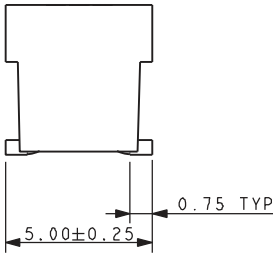
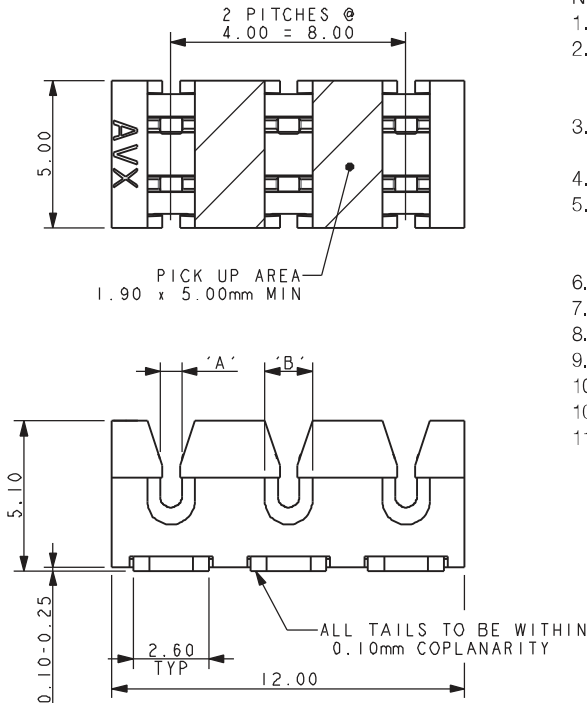
Standard IDC 18-24 AWG: WTB

00-9176



18-24 AWG 3 WAY IDC CONNECTOR

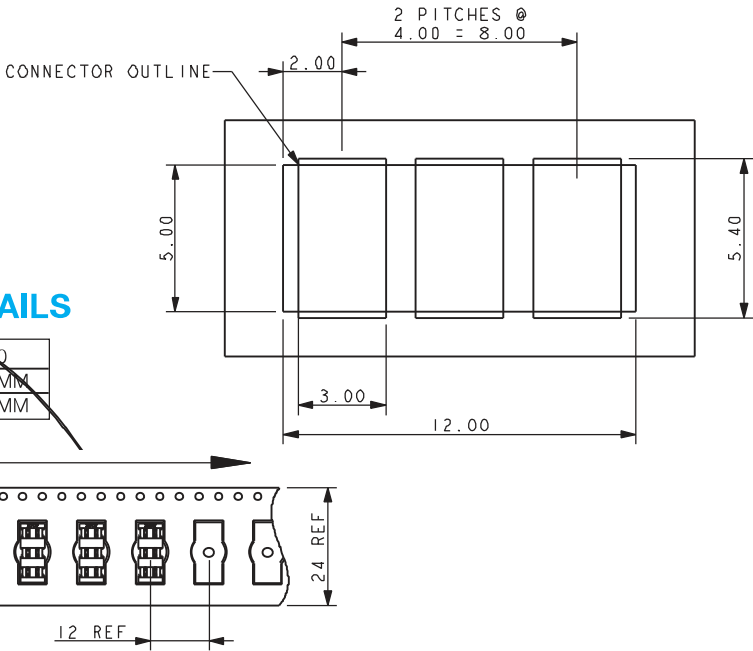
- NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 1.
 3. CONTACTS DESIGNED TO ACCEPT BETWEEN 20AWG AND 24AWG SOLID AND STRANDED WIRES. 18AWG WILL ONLY ACCEPT STRANDED WIRES, SEE TABLE.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-106. UL COMPONENTS REFER TO ELCO SPECIFICATION 201-01-106UL.
 6. APPLICATION NOTES 201-01-124.
 7. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO PAGE 8.
 8. FOR HAND WIRE ASSEMBLY TOOLING REFER TO PAGE 8.
 9. FOR PRESS WIRE ASSEMBLY TOOLING REFER TO PAGE 9
 10. FOR ACCESSORY CAPS REFER TO PAGE 6 AND 7.
 10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
 11. ALL DIMENSIONS ±0.20 TOLERANCE SPECIFIED.



Code	Accepted Wire Gauge	A	Wire Insulation	B
001	18AWG Stranded	0.72	Ø 1.6-2.1	2.1
011	20AWG Solid and Stranded	0.60	Ø 1.6-2.1	2.1
022	22AWG Solid and Stranded	0.47	Ø 1.1-1.6	1.6
032	24AWG Solid and Stranded	0.37	Ø 1.1-1.6	1.6

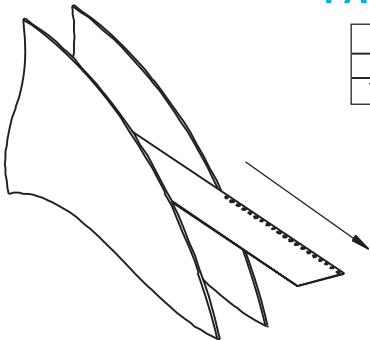
SMT PCB LAYOUT

PURE TIN PADS

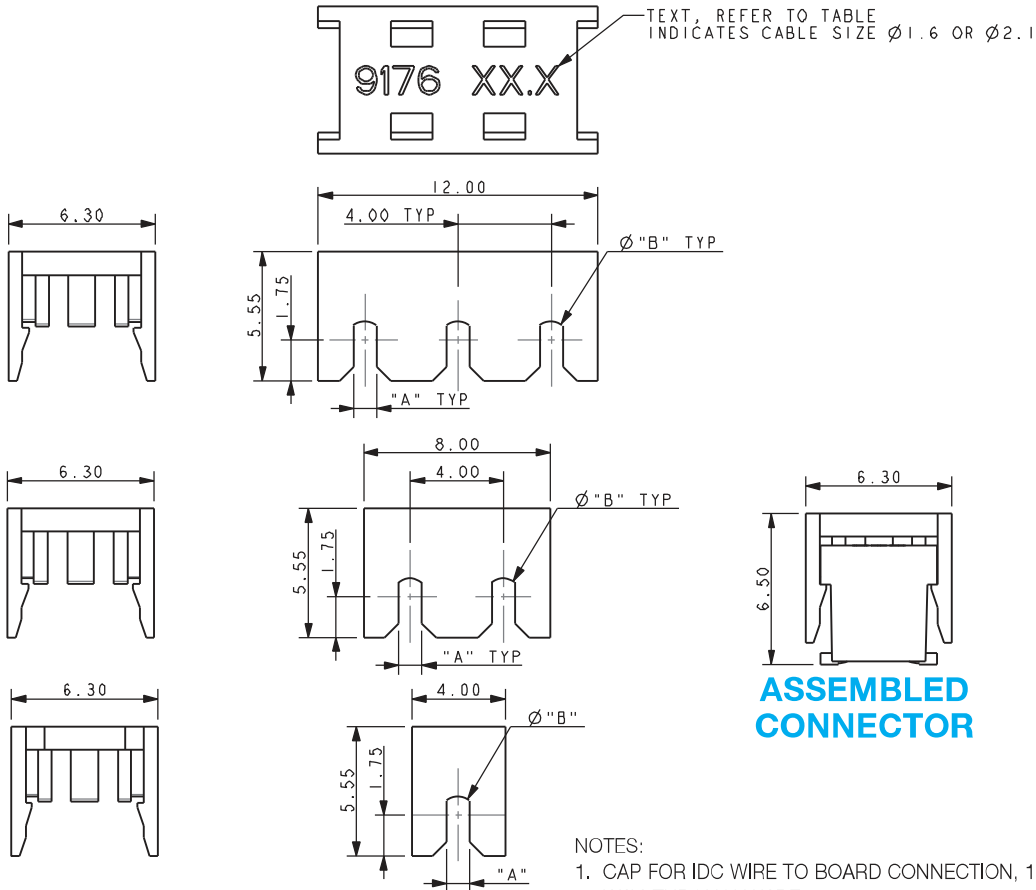


PACKING DETAILS

REEL QTY	1000
LEADER	480MM
TRAILER	120MM

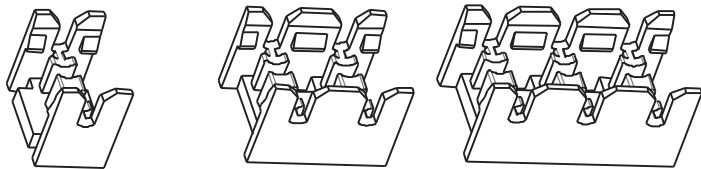


60-9176-00X-0XX-X00
ACCESSORY CAP – THROUGH WIRE

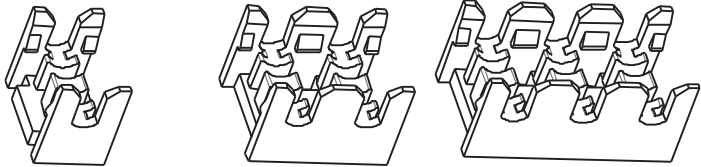


**ASSEMBLED
CONNECTOR**

- NOTES:
1. CAP FOR IDC WIRE TO BOARD CONNECTION, 1, 2 AND 3 WAY, THROUGH WIRE.
 2. FOR USE WITH STANDARD 9176 IDC CONNECTORS, SEE PAGE 2 FOR THE CORRECT PART CODE TO MATCH WIRE.
 3. CAP MATERIAL: GLASS FILLED NYLON 46, FOR COLORS SEE TABLE BELOW.
 4. DIMENSIONS A, B AND TEXT, SEE TABLE BELOW.
 5. CAPS DESIGNED TO ACCOMMODATE WIRE INSULATION DIAMETERS 1.1MM TO 1.6MM AND 1.6MM TO 2.1MM.
 6. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
 7. PACKED IN BAGS, 1000 PIECES PER BAG.
 8. ONE WAY CAP ASSEMBLY AID, REFER TO PAGE 10.
 9. ALL DIMENSIONS ± 0.20 TOLERANCE SPECIFIED.



60-9176-001-016-X00 60-9176-002-016-X00 60-9176-003-016-X00

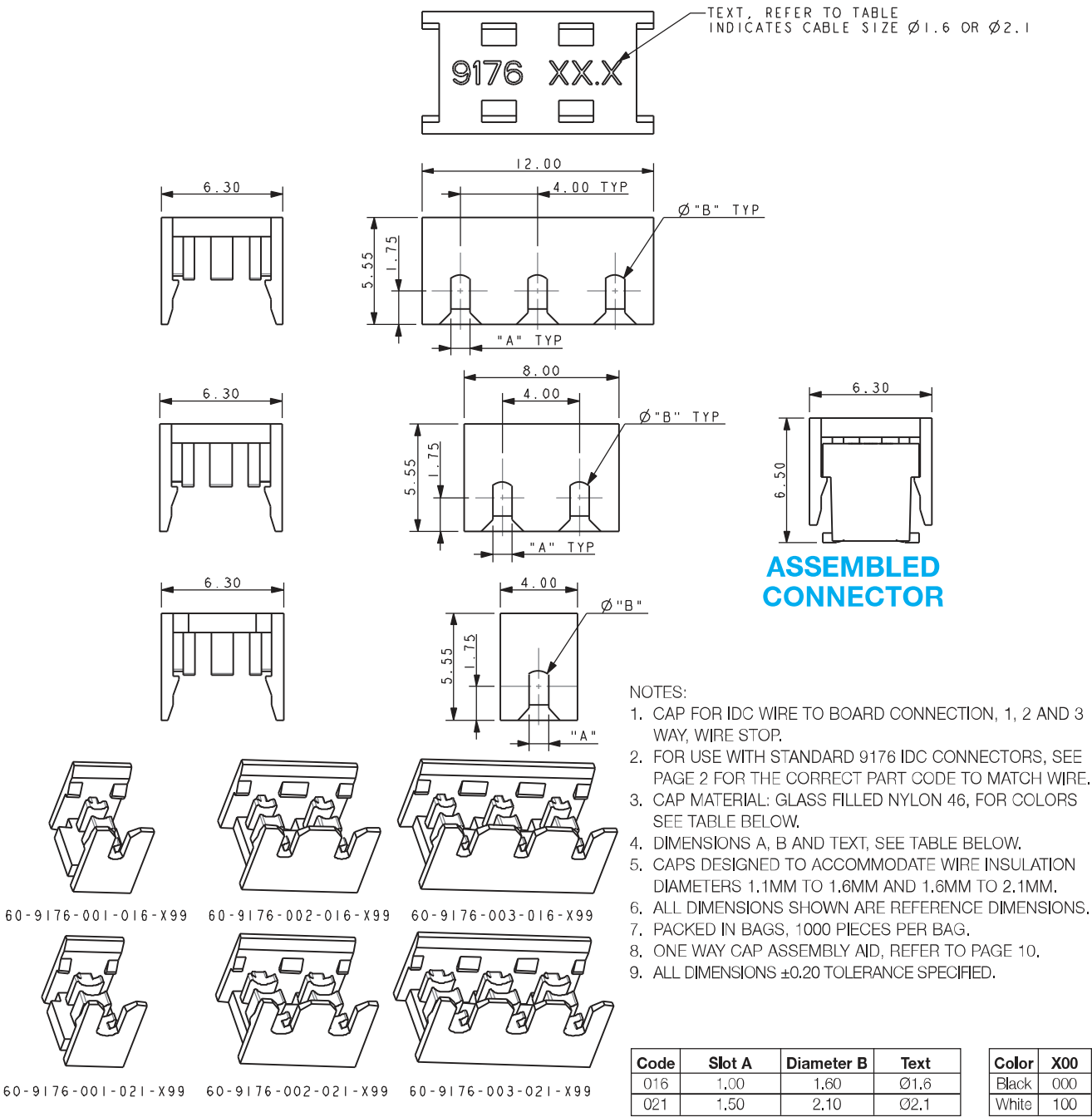


60-9176-001-021-X00 60-9176-002-021-X00 60-9176-003-021-X00

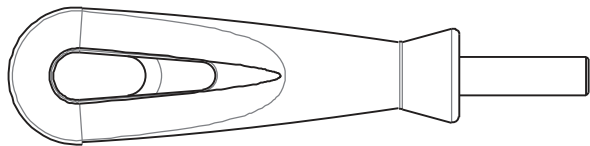
Code	Slot A	Diameter B	Text
016	1.00	1.60	Ø1.6
021	1.50	2.10	Ø2.1

Color	X00
Black	000
White	100

60-9176-00X-0XX-X99
ACCESSORY CAP – WIRE STOP

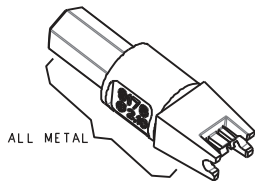


HAND INSERTION TOOLING
FOR SINGLE 18/24 GAUGE WIRE



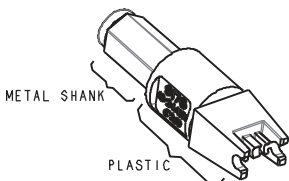
UNIVERSAL HANDLE

Details	Tool Part Number
6,35 A/F HEX BIT HOLDER	06 7000 7730 01 000



HIGH PRODUCTION
Metal

Max Insulation Dia	Tool Part Number
Ø2,10	06 9176 7017 01 000
Ø1,60	06 9176 7017 02 000

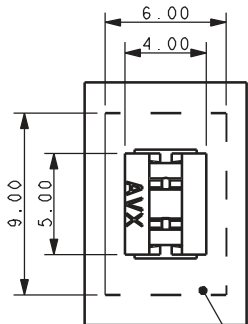


MEDIUM PRODUCTION
Metal/Plastic

Max Insulation Dia	Tool Part Number
Ø2,10	06 9176 7016 01 000
Ø1,60	06 9176 7016 02 000

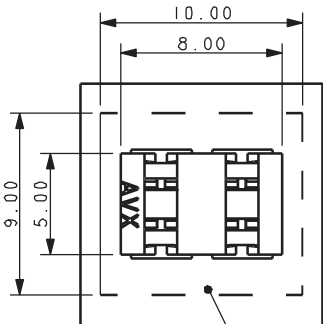
CLEARANCE AREA ON PCB FOR HAND TOOLING

1 WAY



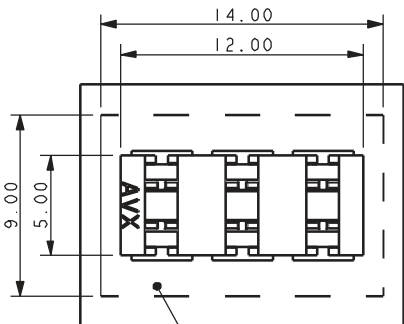
AREA TO BE KEPT CLEAR
FOR TOOLING

2 WAY



AREA TO BE KEPT CLEAR
FOR TOOLING

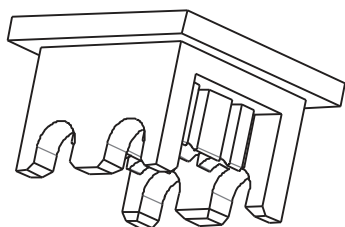
3 WAY



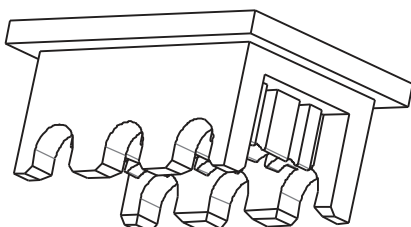
AREA TO BE KEPT CLEAR
FOR TOOLING

INSERTION TOOLING
REQUIRES HAND PRESS WITH FLAT ROCK PLATES

2 WAY



3 WAY

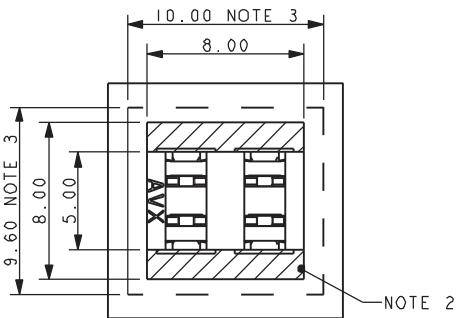
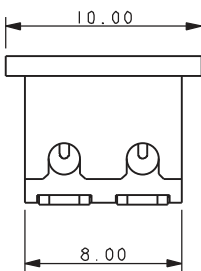
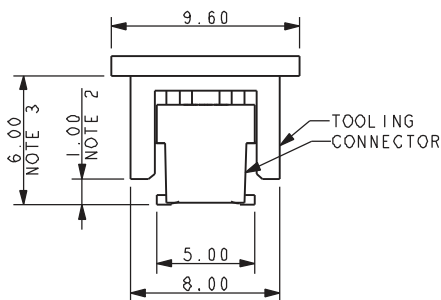


HIGH PRODUCTION
Metal

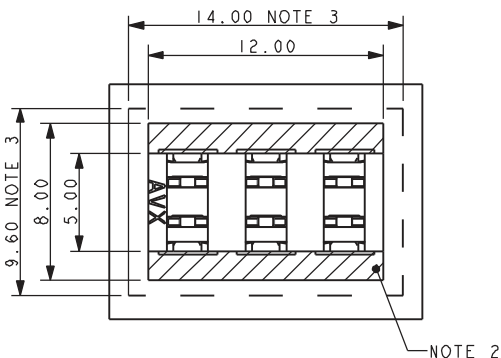
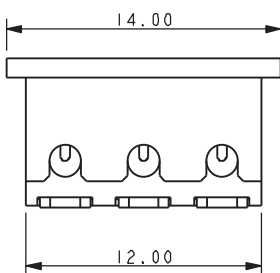
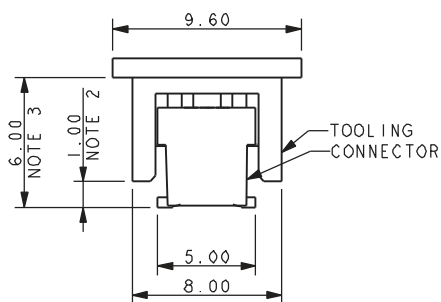
No. of Ways	Max Insulation Dia	Tool Part Number
2	Ø2.10	06 9176 7017 01 002
	Ø1.60	06 9176 7017 02 002
3	Ø2.10	06 9176 7017 01 003
	Ø1.60	06 9176 7017 02 003

PCB RESTRICTED AREAS FOR PRESS ASSEMBLY TOOLING

2 WAY

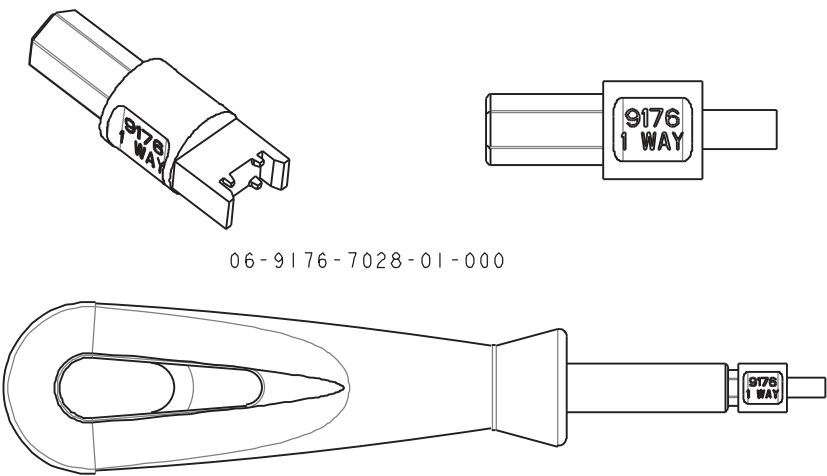


3 WAY

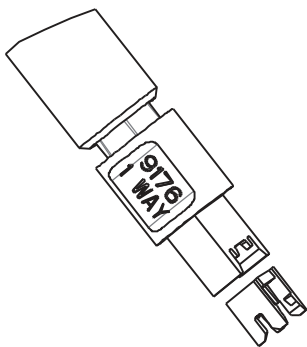


- NOTES:
- 1. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
 - 2. MAXIMUM COMPONENT HEIGHT 1.00MM IN THIS AREA.
 - 3. MAXIMUM COMPONENT HEIGHT 6.00MM IN THIS AREA.
 - 4. THE SAME RESTRICTIONS APPLY TO ALL WIRE INSULATION DIAMETERS.
 - 5. 2 AND 3 WAY TOOLS ONLY, FOR USE UNDER HAND PRESS WITH FLAT PLATES.
 - 6. FOR HAND TOOLING REFER TO PAGE 8.
 - 7. ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.

HAND INSERTION TOOLING
FOR ONE WAY CAP INSERTION

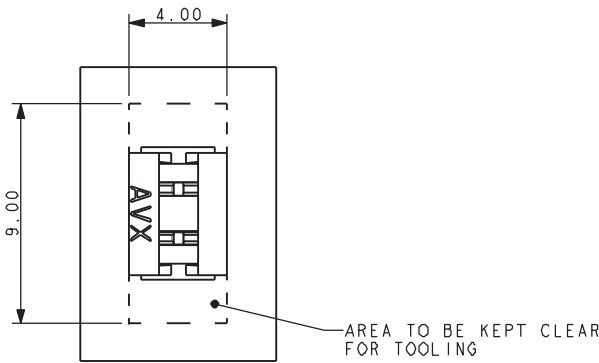


TO BE USED WITH 06-7000-7730-01-000
UNIVERSAL HANDLE

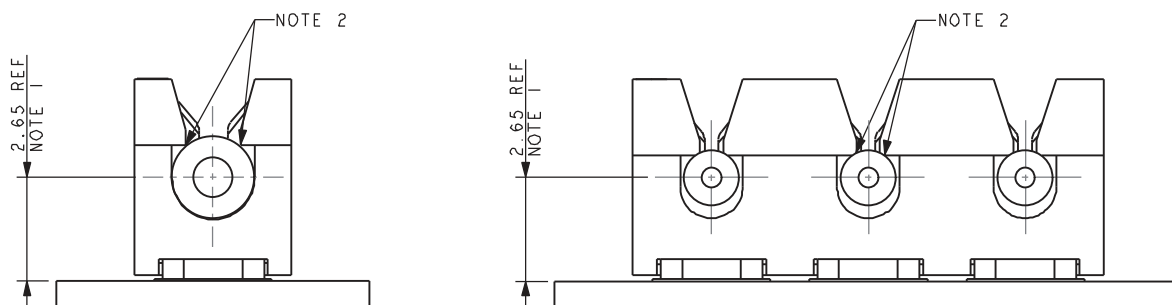


FOR ASSEMBLY INSTRUCTION REFER TO 201-01-124 APPLICATION NOTES

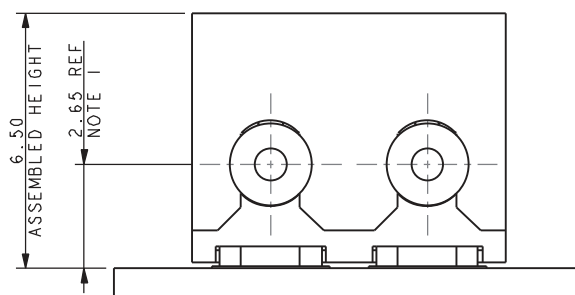
CLEARANCE AREA ON PCB FOR HAND TOOLING



ASSEMBLED CONNECTOR



STANDARD CONNECTOR



CONNECTOR WITH CAP

NOTES:

1. ASSEMBLED HEIGHTS INCLUDE 0.10MM ALLOWANCE FOR PAD AND SOLDER THICKNESS.
NO ALLOWANCE HAS BEEN MADE FOR ANY SOLDER RESIST OR OTHER FEATURES.
2. WHEN THE WIRE IS ASSEMBLED THE INSULATION SHOULD BE TRAPPED BY THESE EDGES.