

IDC Socket Wire-To-Board: 24-9159-100

General Description



KYOCERA AVX developed the 9159 Series of SMT connectors for co-planar PCB mating for the challenging Solid State Lighting (SSL) market. These connectors needed to be small, low in height, carry up to 5 Amps/contact, and then function up to 125°C for extended periods. This application has been very unique to the SSL market where PCB's are stacked end-to-end to create linear strip lighting in everything from office to transportation applications.

The IDC cable socket connector allows for 22-24AWG discrete or cabled wires to be easily and reliably terminated into a 9159 standard interface plug connector. This will allow power and signals to be connected onto a PCB socket connector while providing positive latching. The wire assembly support block allows for 2 through 6 wires to be terminated all in one step with any standard bench top press. IDC covers provide both through (daisy chain applications) and wire stop termination options.

APPLICATIONS

- Provides Wire-to-Board capabilities to standard 9159 2-Piece connector system
- In conjunction with the IDC plug WTB connector (14-9159), these connectors provide maximum flexibility to bring power and signal wires onto or off of any board level 9159 connector
- Reference application notes 201-01-123
- Reference Product Specification 201-01-119

FEATURES AND BENEFITS

- Mates with standard 9159 horizontal plug, keeping same BTB connector system
- Economical and reliable IDC wire termination
- Molded latch offers positive latching after mating

ELECTRICAL

- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +70°C

MECHANICAL

- Insulator Material: Nylon: UL94V0
- Contact Material: Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

HOW TO ORDER

<p>24</p> <p>Prefix Right Angle Wired Socket IDC Terminations</p>	<p>9159</p> <p>Series</p>	<p>00X</p> <p>Number of Ways</p> <table border="1" style="font-size: 8px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Code</th> <th>No of Ways</th> <th>Details</th> </tr> </thead> <tbody> <tr><td colspan="3" style="text-align: center;">THROUGH WIRE CAP</td></tr> <tr><td>002</td><td>2</td><td>Page 52</td></tr> <tr><td>003</td><td>3</td><td>Page 53</td></tr> <tr><td>004</td><td>4</td><td>Page 54</td></tr> <tr><td>005</td><td>5</td><td>Page 55</td></tr> <tr><td>006</td><td>6</td><td>Page 56</td></tr> <tr><td colspan="3" style="text-align: center;">WIRE STOP CAP</td></tr> <tr><td>002</td><td>2</td><td>Page 57</td></tr> <tr><td>003</td><td>3</td><td>Page 58</td></tr> <tr><td>004</td><td>4</td><td>Page 59</td></tr> <tr><td>005</td><td>5</td><td>Page 60</td></tr> <tr><td>006</td><td>6</td><td>Page 61</td></tr> </tbody> </table>	Code	No of Ways	Details	THROUGH WIRE CAP			002	2	Page 52	003	3	Page 53	004	4	Page 54	005	5	Page 55	006	6	Page 56	WIRE STOP CAP			002	2	Page 57	003	3	Page 58	004	4	Page 59	005	5	Page 60	006	6	Page 61	<p>1</p> <p>2 Part PCB Strip Connector 2 Part Wired IDC Strip Connector</p>	<p>X</p> <p>Wire Gauge 2 = 22AWG 3 = 24AWG</p>	<p>2</p> <p>Wire Insulation Diameter ø1.10mm to ø1.60mm</p>	<p>X</p> <p>Color/Approval</p> <table border="1" style="font-size: 8px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Code</th> <th>Color</th> <th>Approval</th> </tr> </thead> <tbody> <tr><td>8</td><td>Black</td><td>UL Approved</td></tr> <tr><td>9</td><td>White</td><td>UL Approved</td></tr> </tbody> </table>	Code	Color	Approval	8	Black	UL Approved	9	White	UL Approved	<p>X</p> <p>Cap Options</p> <table border="1" style="font-size: 8px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Code</th> <th>Cap Option</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>0</td><td>Through Wire</td><td>Allows wires to be terminated at any point</td></tr> <tr><td>9</td><td>Wire Stop</td><td>Terminates end of wire. End protected with Stop Face</td></tr> </tbody> </table>	Code	Cap Option	Description	0	Through Wire	Allows wires to be terminated at any point	9	Wire Stop	Terminates end of wire. End protected with Stop Face	<p>6</p> <p>Plating Option</p> <table border="1" style="font-size: 8px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Code</th> <th>Contact</th> </tr> </thead> <tbody> <tr><td>6</td><td>Gold on Contact Tin on IDC</td></tr> </tbody> </table>	Code	Contact	6	Gold on Contact Tin on IDC
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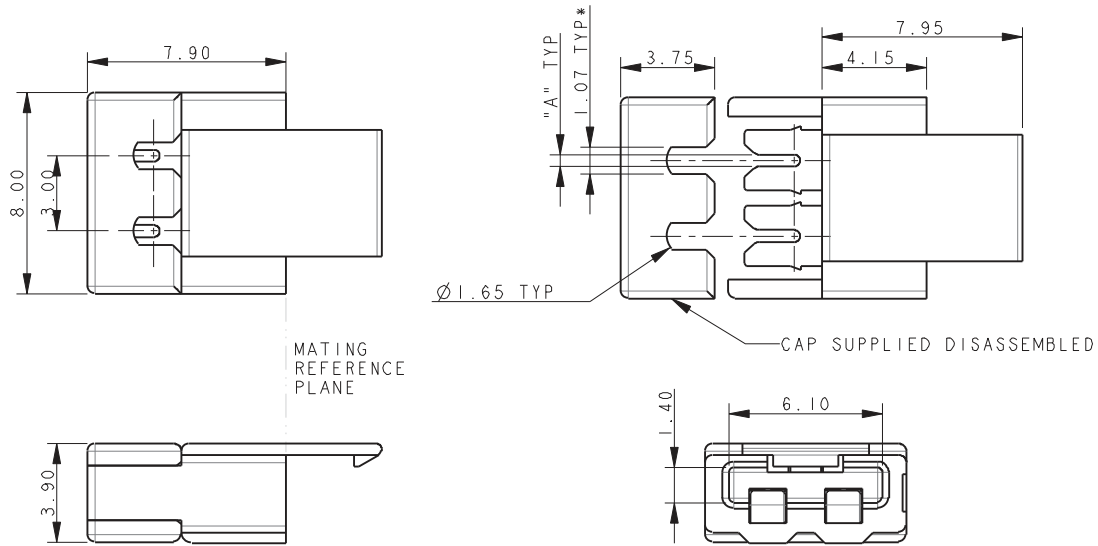
Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

IDC Socket Wire-To-Board: 24-9159-100

2 Position Through Wire Cap



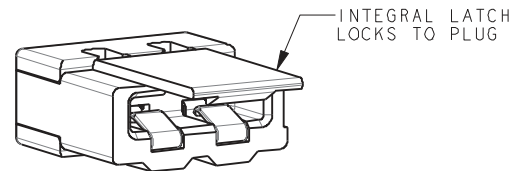
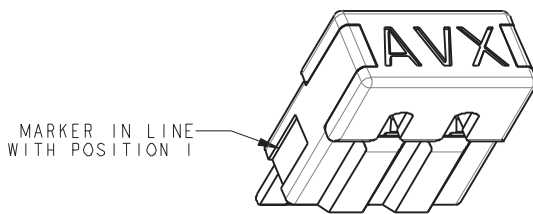
SOCKET WIRED – 2 WAY THROUGH WIRE CAP



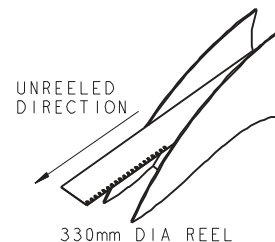
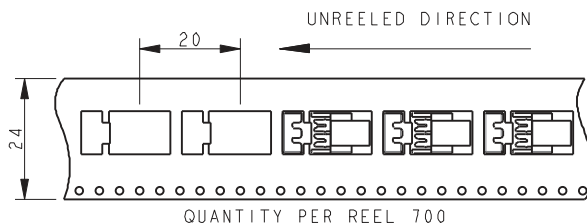
NOTES:

1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
4. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
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6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
8. WIRE GAUGE OPTIONS, SEE TABLE.
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Wire Gauge	Code (Page 50)	Dimension A	Wire Insulation Diameter
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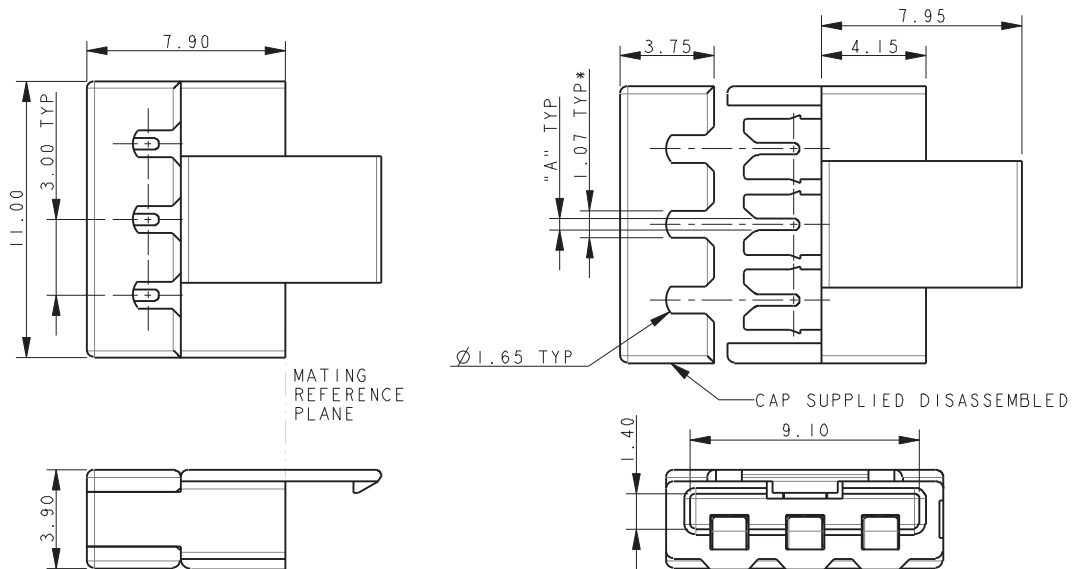
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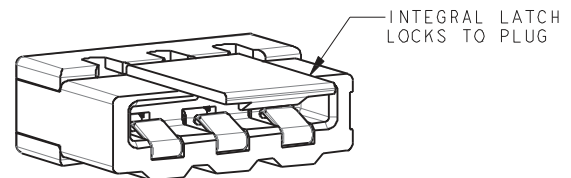
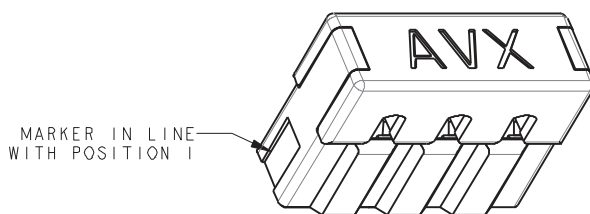
SOCKET WIRED – 3 WAY THROUGH WIRE CAP



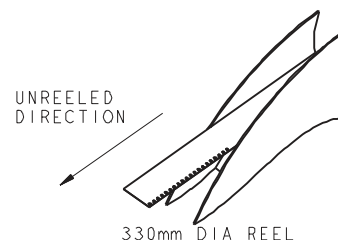
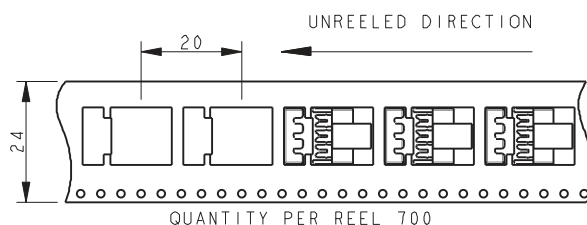
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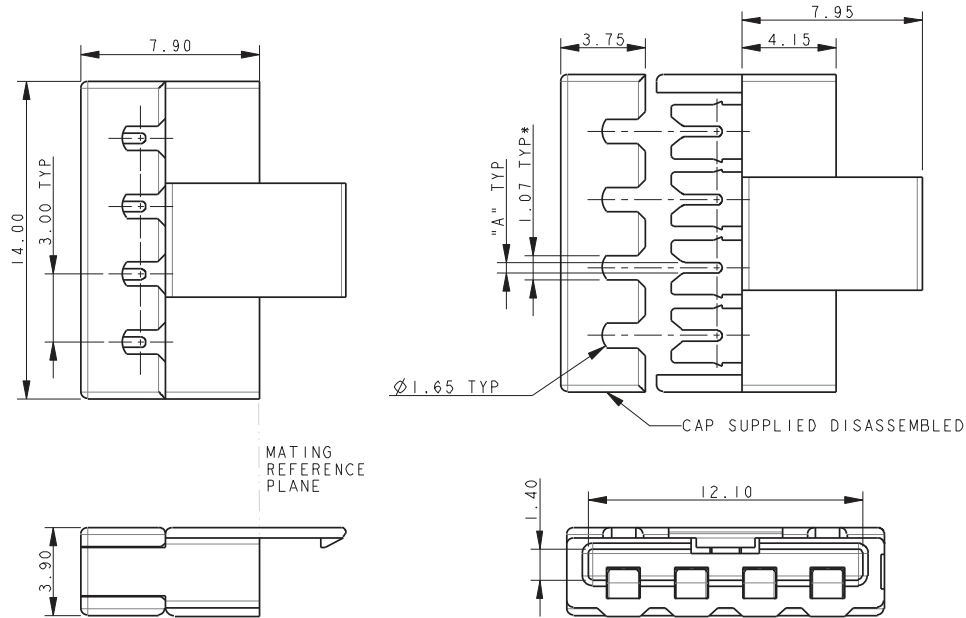
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4 Position Through Wire Cap

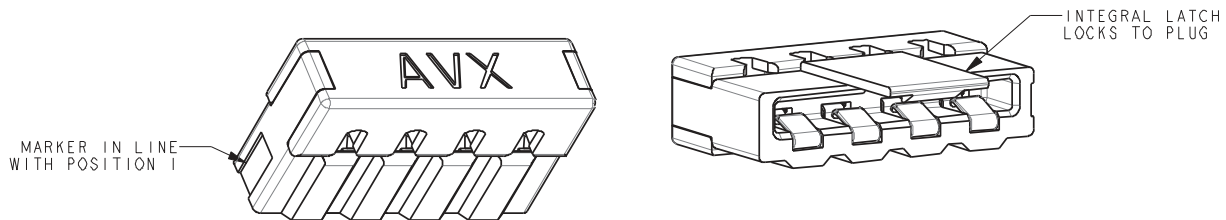
SOCKET WIRED – 4 WAY THROUGH WIRE CAP



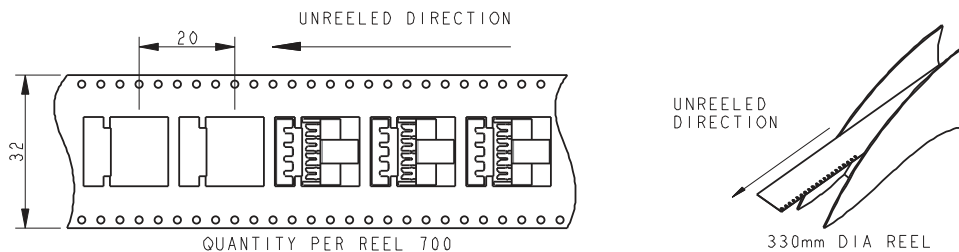
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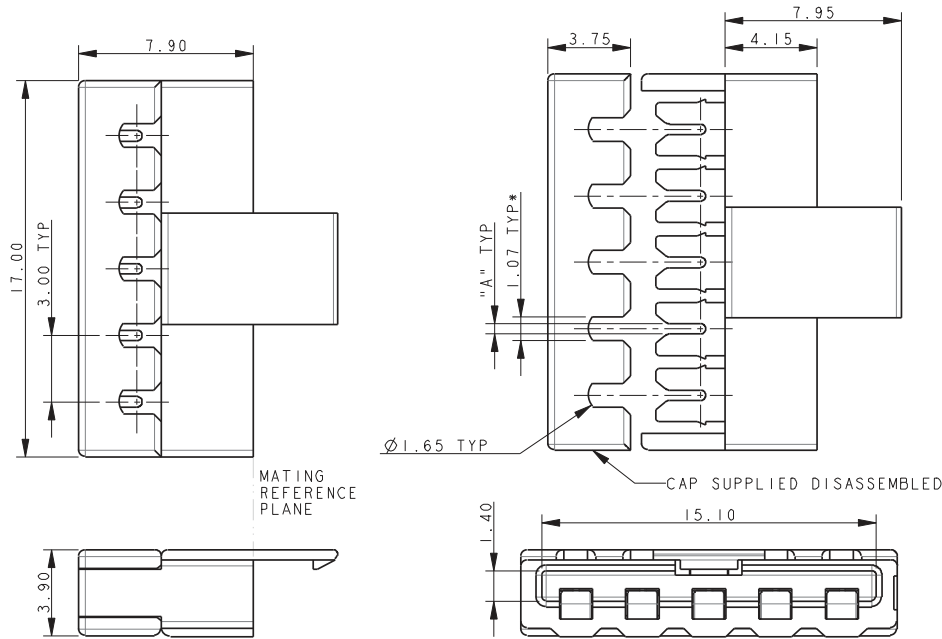
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IDC Socket Wire-To-Board: 24-9159-100

5 Position Through Wire Cap

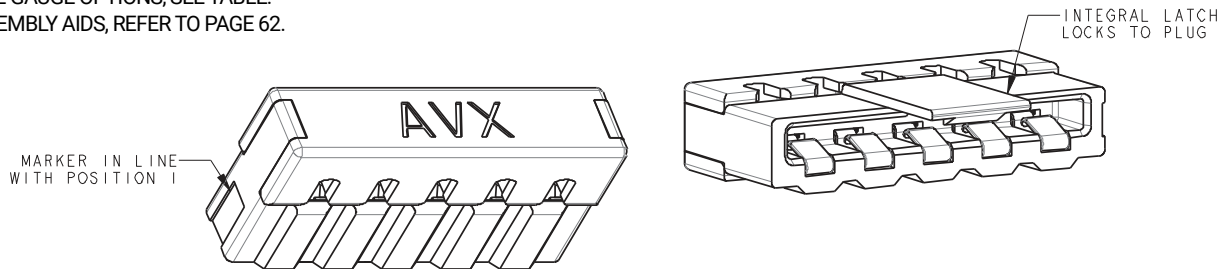
SOCKET WIRED – 5 WAY THROUGH WIRE CAP



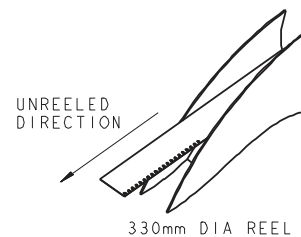
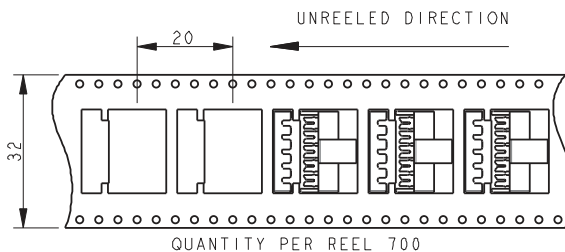
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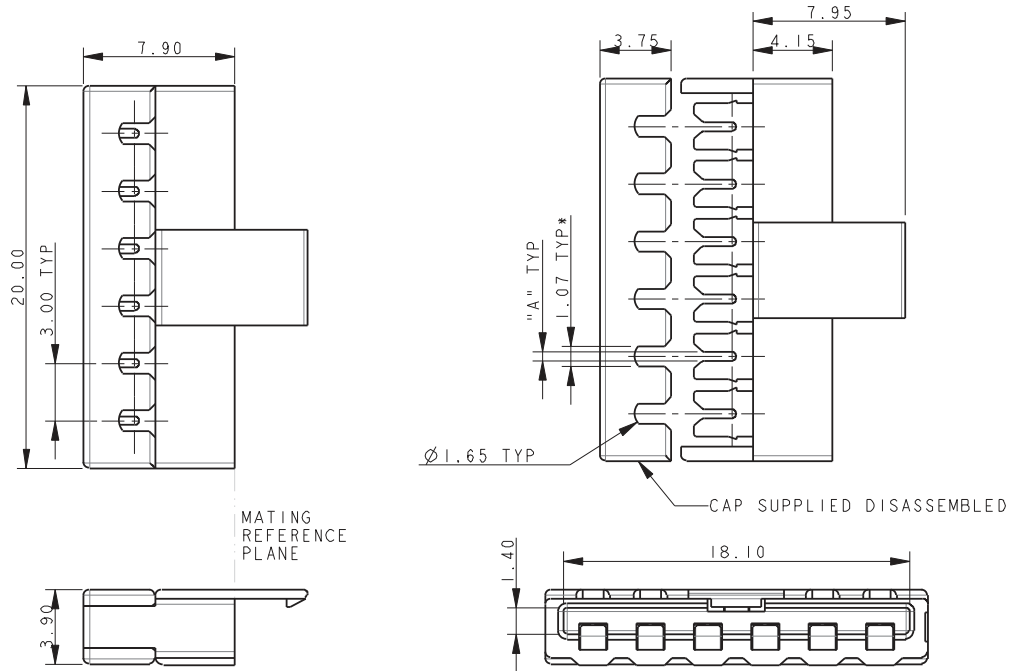
PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)



IDC Socket Wire-To-Board: 24-9159-100

6 Position Through Wire Cap

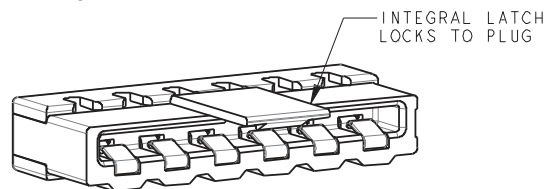
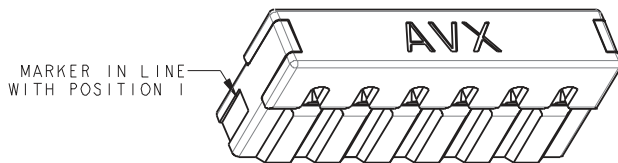
SOCKET WIRED – 6 WAY THROUGH WIRE CAP



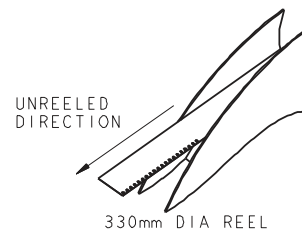
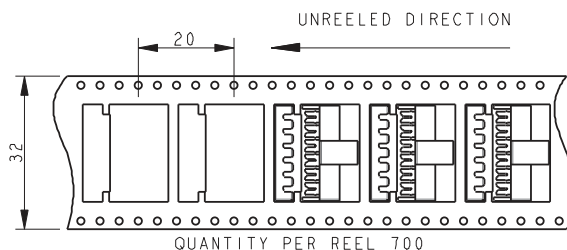
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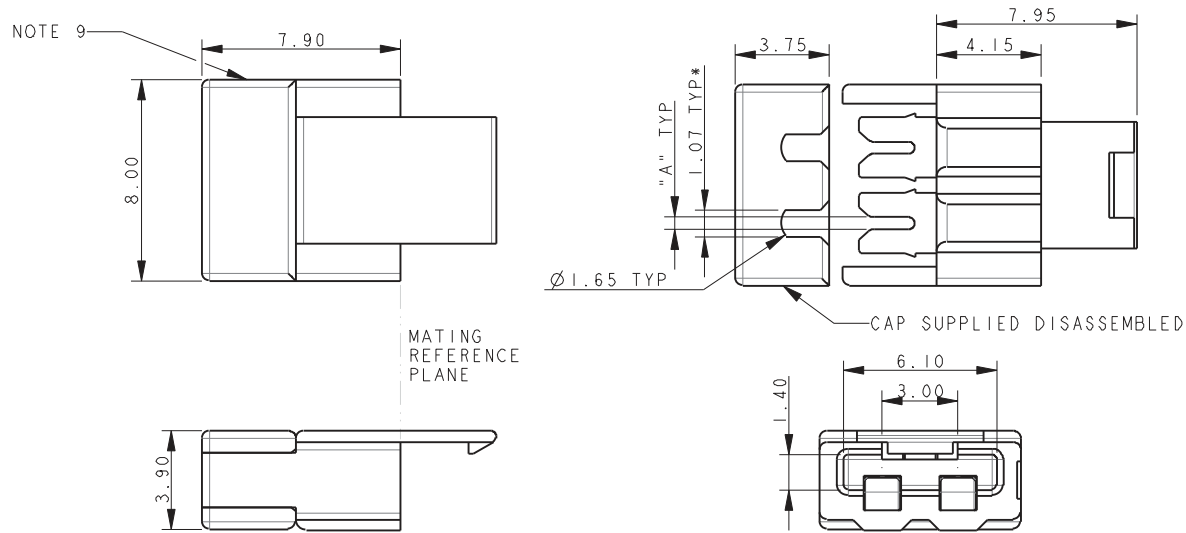
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IDC Socket Wire-To-Board: 24-9159-100

2 Position Wire Stop Cap

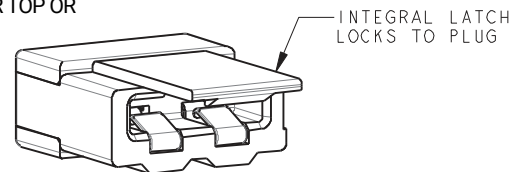
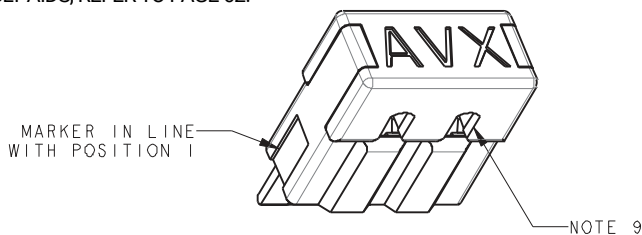
SOCKET-WIRED – 2 WAY WIRE STOP CAP



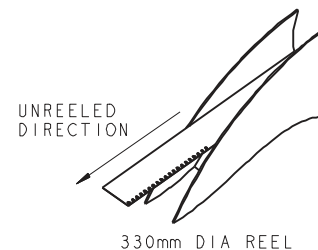
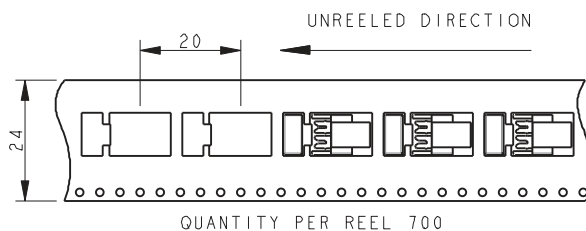
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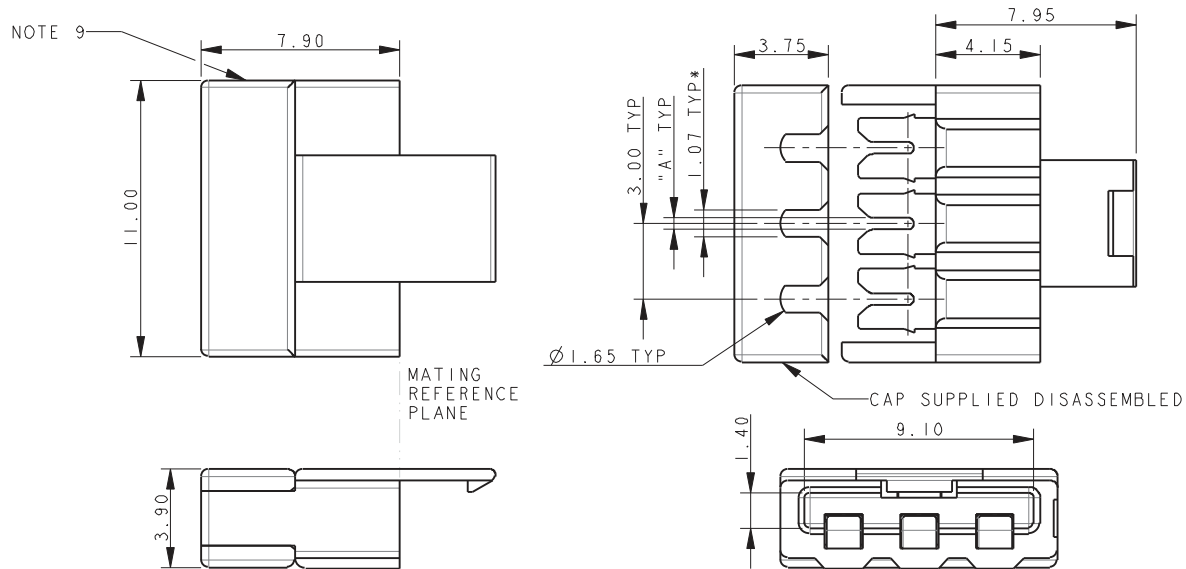
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IDC Socket: 24-9159 WTB

3 Position Wire Stop Cap

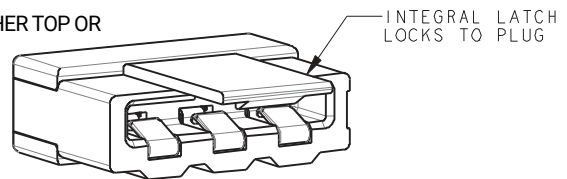
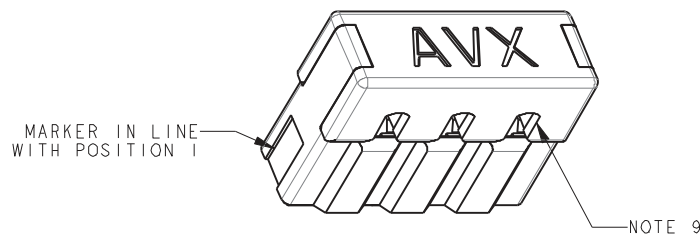
SOCKET-WIRED – 3 WAY WIRE STOP CAP



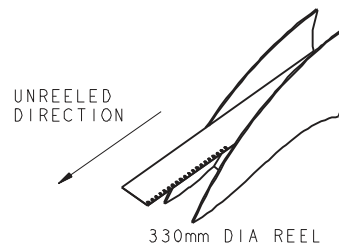
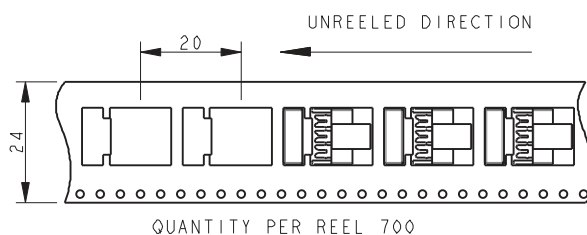
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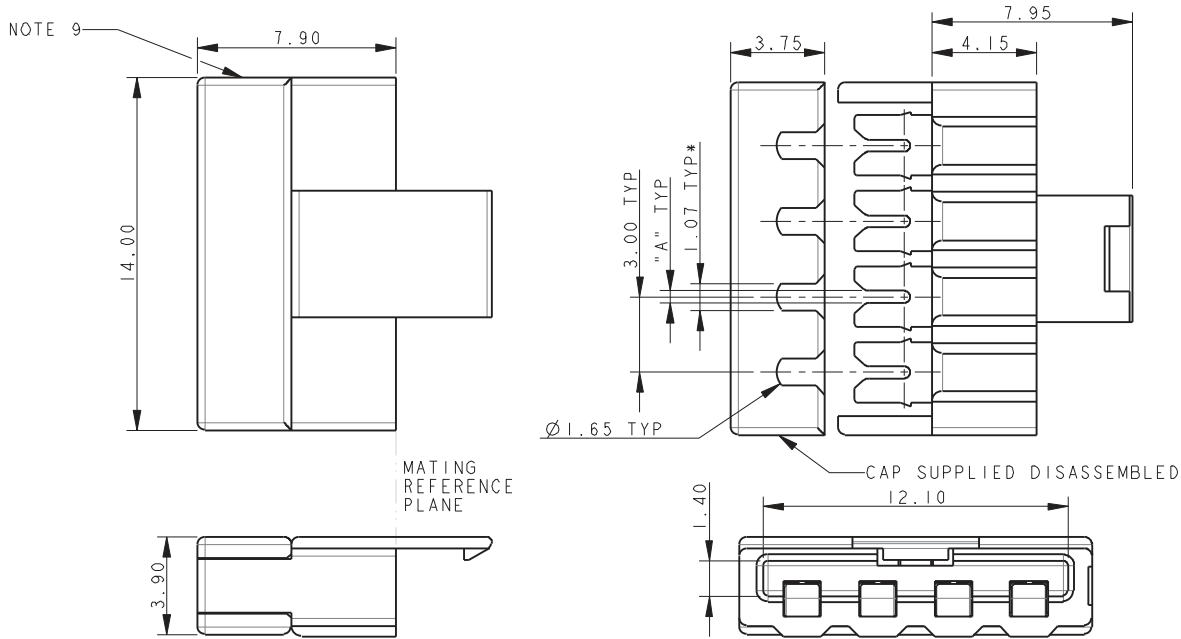
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4 Position Wire Stop Cap

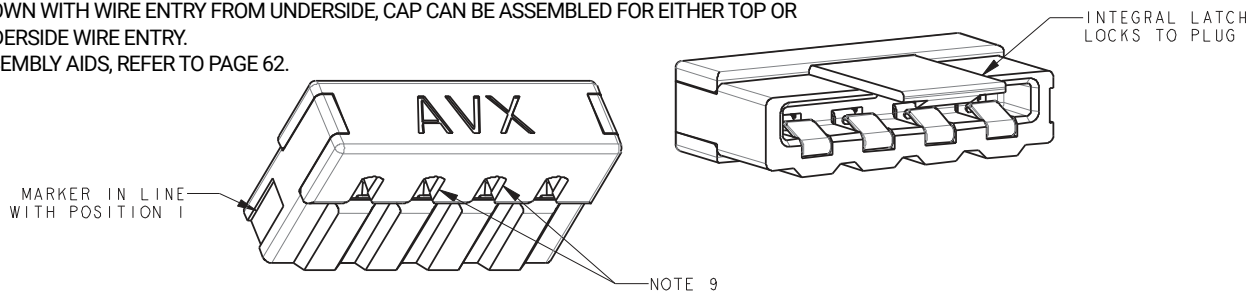
SOCKET-WIRED – 4 WAY WIRE STOP CAP



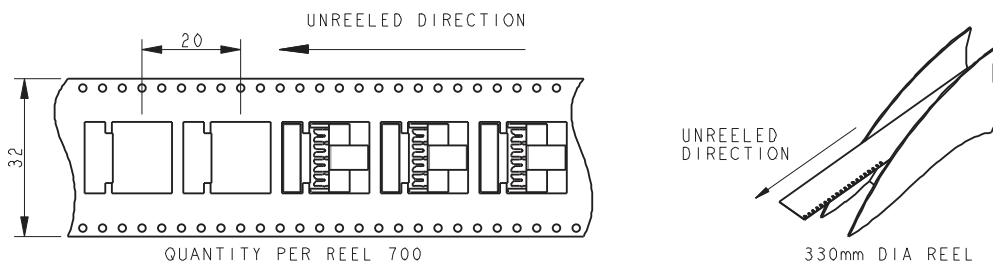
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24AWG (Stranded Wire)	132	0.37	1.10 to 1.60



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)

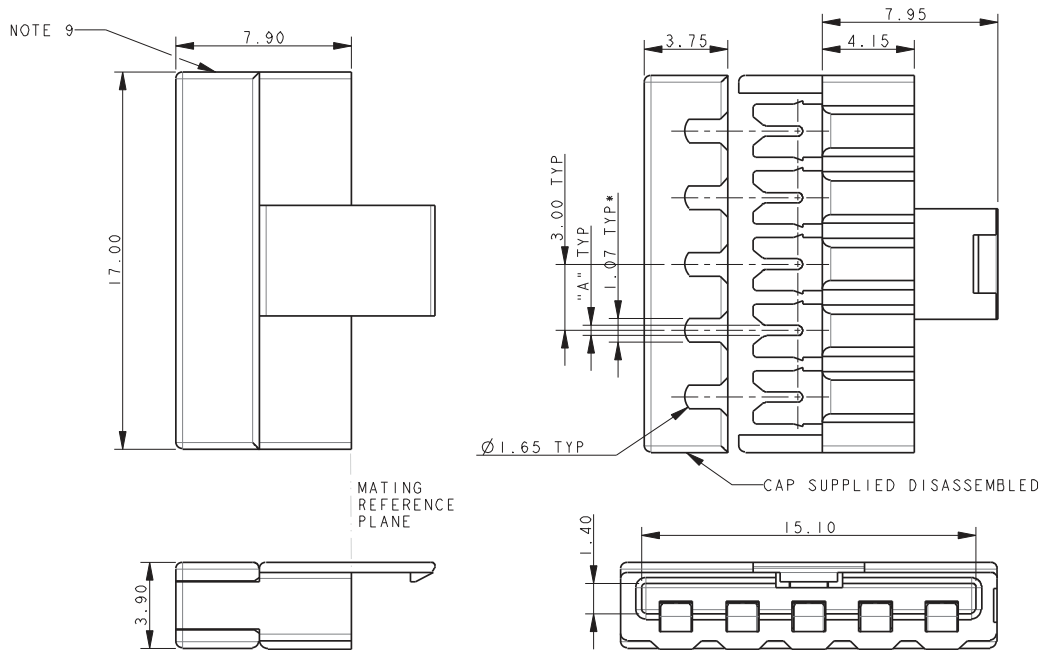


IDC Socket Wire-To-Board: 24-9159-100

5 Position Wire Stop Cap



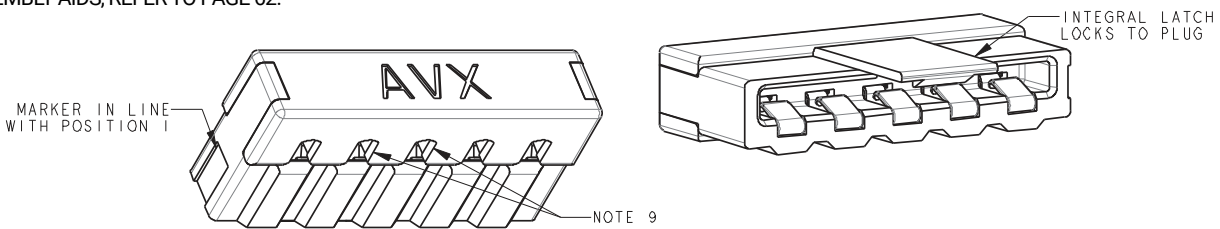
SOCKET-WIRED – 5 WAY WIRE STOP CAP



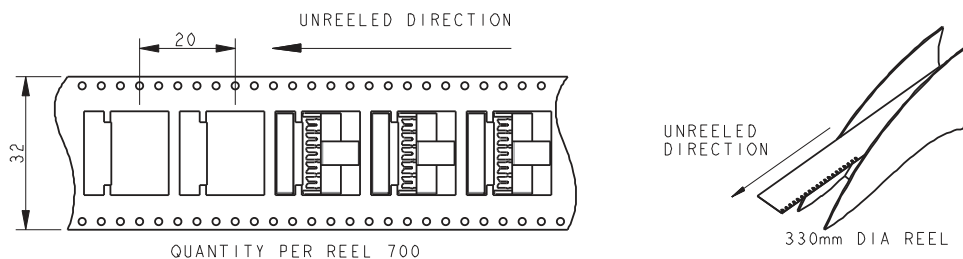
NOTES:

1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
2. WIRE STOP CAP, WITH STOP FACE ON ONE SIDE TO PROTECT END OF WIRE.
3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
4. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 51.
6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
8. WIRE GAUGE OPTIONS, SEE TABLE.
9. SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.
10. ASSEMBLY AIDS, REFER TO PAGE 62.

Wire Gauge	Code (Page 50)	Dimension A	Wire Insulation Diameter
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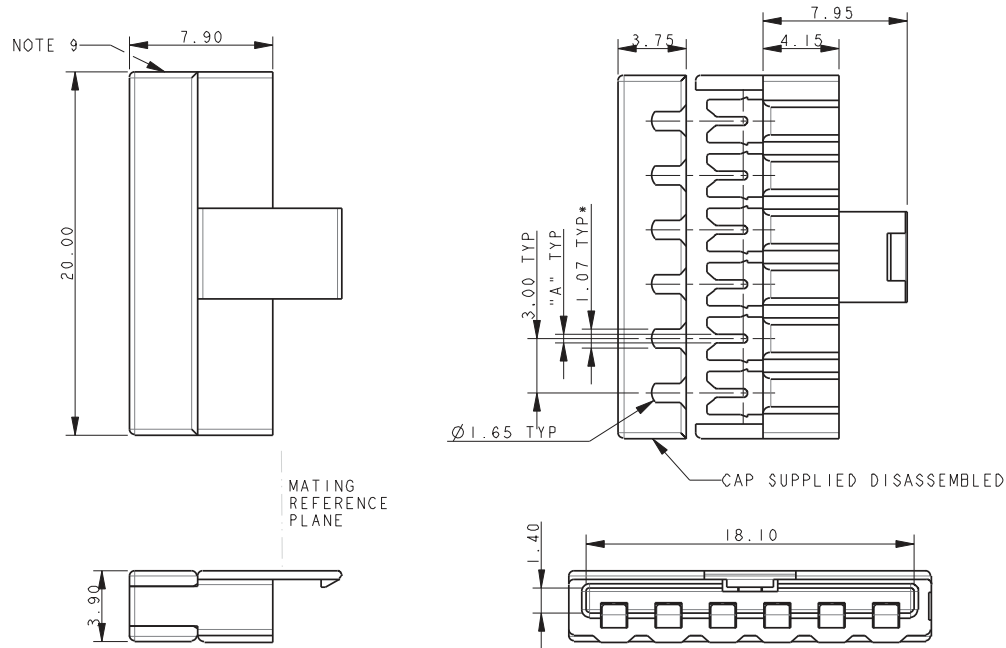
PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)



IDC Socket Wire-To-Board: 24-9159-100

6 Position Wire Stop Cap

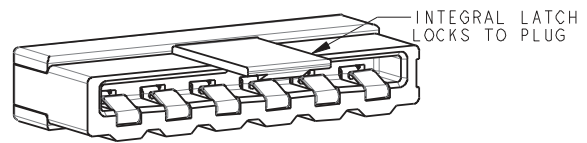
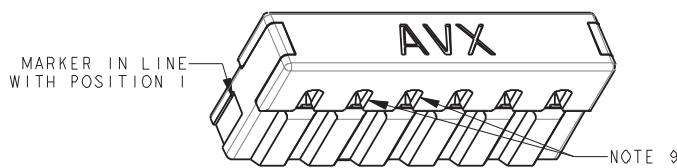
SOCKET-WIRED – 6 WAY WIRE STOP CAP



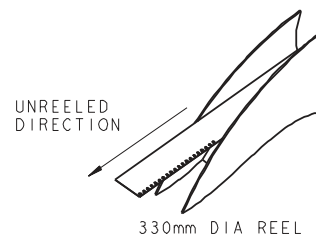
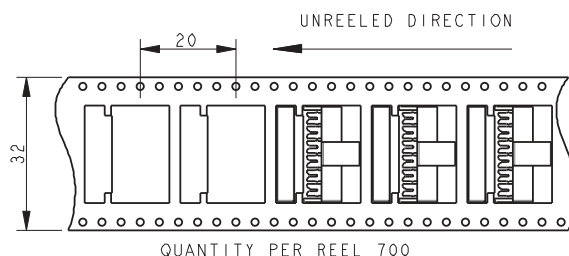
NOTES:

1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
2. WIRE STOP CAP, WITH STOP FACE ON ONE SIDE TO PROTECT END OF WIRE.
3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
4. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 51.
6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
8. WIRE GAUGE OPTIONS, SEE TABLE.
9. SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.
10. ASSEMBLY AIDS, REFER TO PAGE 62.

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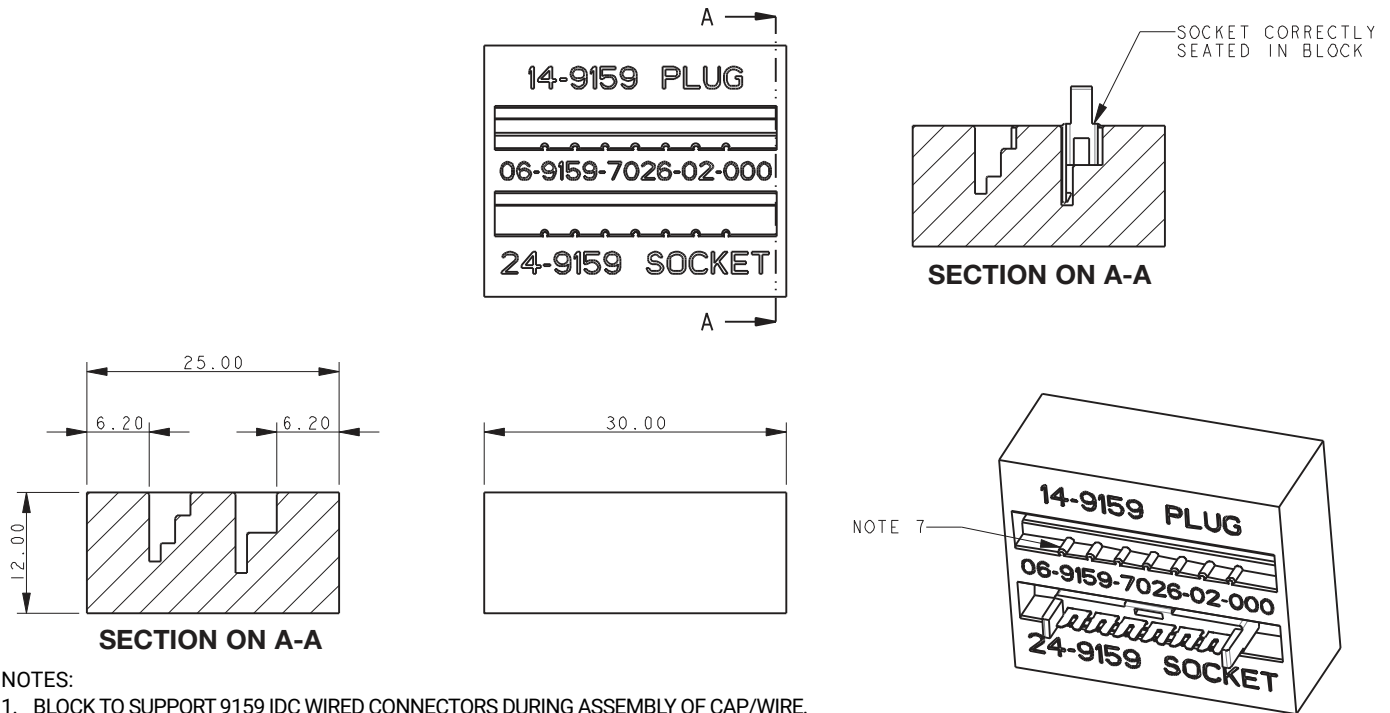
PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)



IDC Socket Wire-To-Board: 24-9159-100

Assembly Support Block, Insertion Tool

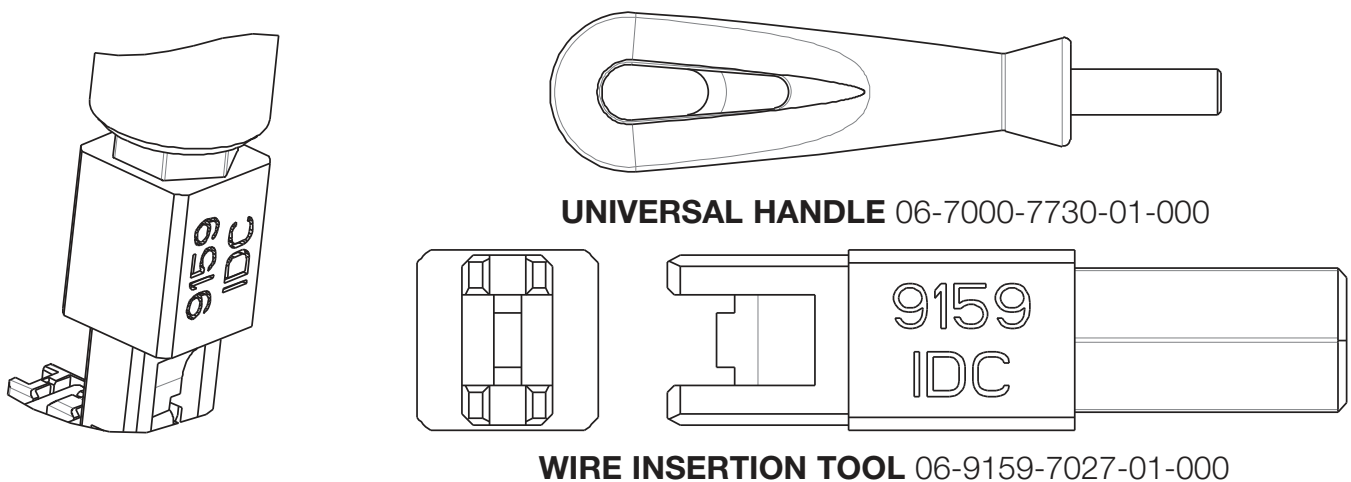
SOCKET-WIRED – ASSEMBLY SUPPORT BLOCK



NOTES:

1. BLOCK TO SUPPORT 9159 IDC WIRED CONNECTORS DURING ASSEMBLY OF CAP/WIRE.
2. PART NUMBER 06-9159-7026-01-000, MATERIAL ALUMINUM. PART NUMBER 06-9159-7026-02-000, MATERIAL NYLON 46.
3. CAN BE USED WITH EITHER THE PLUG OR SOCKET CONNECTORS, USE THE CORRECT SLOT AS IDENTIFIED.
4. FOR FULL WIRE ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-123.
5. ONLY A SIMPLE FLAT BOTTOMED TOOL REQUIRED TO PUSH THE CAP DOWN (NOT SUPPLIED.)
6. ALL DIMENSIONS ± 0.20 UNLESS TOLERANCED.
7. 06-9159-7026-02-000 HAS RIBS TO HELP LOCATE CONTACT/INSULATOR SUB-ASSEMBLY.

SOCKET-WIRED – WIRE INSERTION TOOL



NOTES:

1. TOOL 06-9159-7027-01-000 TO INSERT WIRES INTO CAP.
2. FOR USE WITH UNIVERSAL HANDLE 06-7000-7720-01-000.
3. CAN BE USED WITH BOTH THROUGH WIRE AND WIRE STOP CAPS.
4. REFER TO APPLICATION NOTES 201-01-123 FOR FURTHER DETAILS.