Poke-Home: Vertical Top Entry 18-26 AWG: WTB

00-9296



AVX continues to develop innovative connectors for the industrial electronics market that provide significant benefits over existing, outdated connector solutions. Listening to the design engineering community, there are ongoing applications where they cannot find an off-the-shelf solution that will satisfy a high percentage of the projects configuration, performance and cost goals.

The newest addition to AVX's broadening line of Wire-to-Board (WTB) connectors offers a cost effective, single Poke-Home connector solution that will meet the cost and performance targets in demanding, yet user friendly applications. At the heart of the connector is the industry proven dual tine, 3mm high spring force box contact that has been on the market as a stand-alone horizontal contact only solution.

The new SMT vertical top entry connector allows for 18AWG to 26AWG wires to be simply stripped and inserted into the connector body at 180 degree orientation to the top side of the PCB. This single connector will replace existing 2-Piece WTB solutions where a header is soldered onto the PCB and a secondary crimp-to-wire receptacle assembly is plugged in. Available in 1-6 positions, each connector will accept the entire wire gauge range for either solid or stranded wires at varying current ratings supported by each wire size. Once inserted, wires can easily be removed or replaced by twisting/unscrewing or by using a small blade extraction tool.

APPLICATIONS

- Industrial/Ruggedized Wire-to-Board applications
- Replace hard soldering of wire to a PCB
- Replace costly 2-Piece header and receptacle products
- Reference Product Specification 201-01-151
- Reference Application Notes 201-01-152

FEATURES AND BENEFITS

- Dual Beam box contact provides maximum mechanical stability and wire retention
- Tape and reel packaged for automated SMT placement
- Will accept either solid or stranded wire, 18-26AWG, plated or un-plated wires
- Simple strip and insert for wire loading, with easy twist and pull for wire removal

ELECTRICAL

- Voltage Rating: 600 VAC 1 way;
  300 VAC 2 - 6 way
- Current Rating: See matrix below

ENVIRONMENTAL

- Operating Temperature:
  -40ºC to +125ºC

MECHANICAL

- Contact Material: Copper Alloy
- Contact Plating: Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00 — **Prefix**

9296 — **Series**

00X — **Number of Ways**
001 = 1
002 = 2
003 = 3
004 = 4
005 = 5
006 = 6

553 — **Wire Gauge Size**

Code	Accepted Wire Gauge	Max Insulation
553	18 – 26 AWG Solid or Stranded	2.2mm

X — **Insulator Color**
All Sizes
9 = UL White (Standard)
8 = UL Black (Special Order)

One Way Only (Special Order)
2 = UL Brown
3 = UL Blue
4 = UL Yellow
5 = UL Red
6 = UL Green
7 = UL Orange

06 — **Plating Option**
06 = Tin Plated

RoHS COMPLIANT

CURRENT RATING

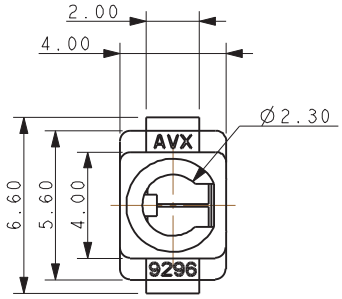
18AWG	20AWG	22AWG	24AWG	26AWG
7A	6A	5A	4A	3A

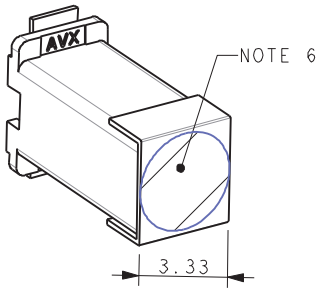
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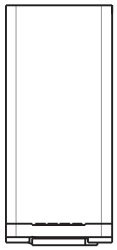
Poke-Home: Vertical Top Entry
18-26 AWG: WTB

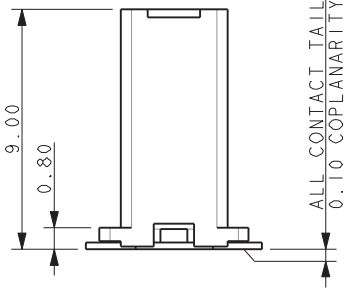
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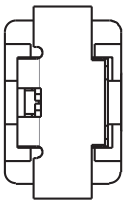
9296 TOP MOUNT POKE HOME CONNECTOR
1 WAY





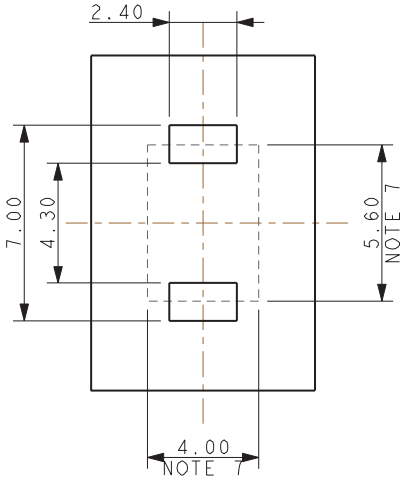




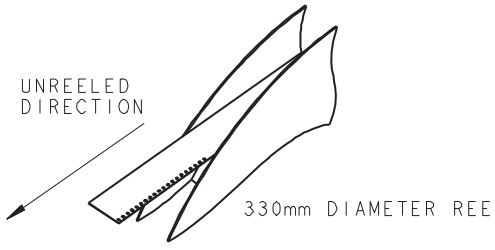


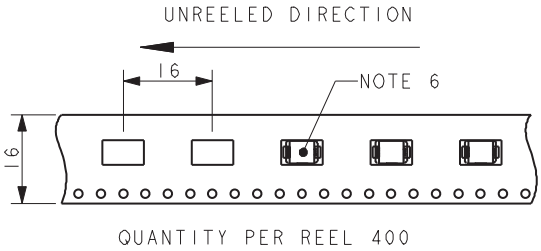
NOTES:
1. TOP MOUNT 1 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-151 AND APPLICATION NOTES 201-01-152.
2. SUITABLE FOR WIRES 18AWG TO 26AWG. MAXIMUM INSULATION 2.20MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 92.
4. CONTACT: TIN PLATE COPPER ALLOY.
5. PACKING IN TAPE AND REEL. QTY PER REEL 400, 330MM REEL.
6. CAPTON TAPE TO AID PICK AND PLACE, 4MM DIAMETER MAX AVAILABLE.
7. CONNECTOR OUTLINE.
8. GENERAL TOLERANCE ±0.20.
9. UL REFERENCE E90723.

SUGGESTED PCB LAYOUT



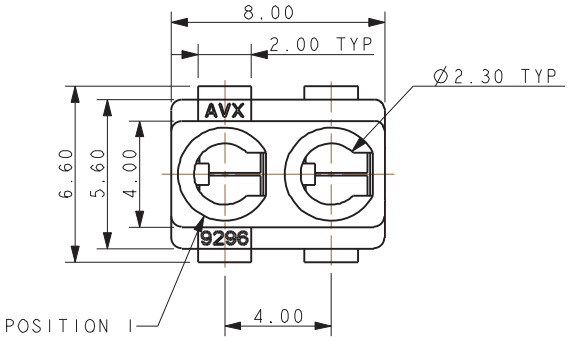
PACKING DETAILS

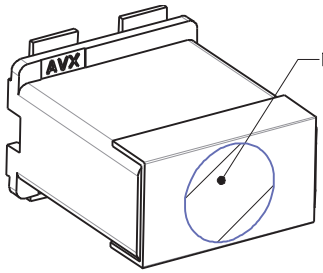


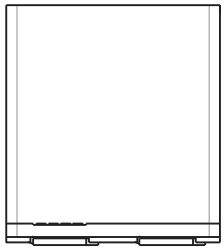


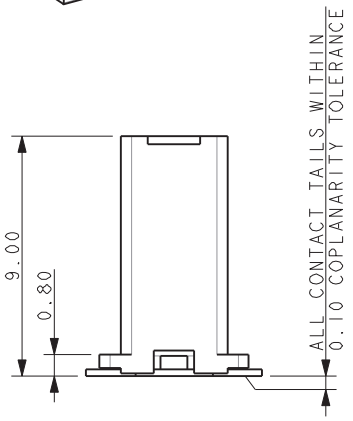
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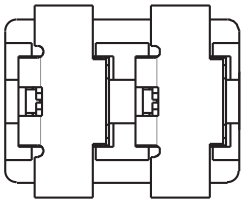
9296 TOP MOUNT POKE HOME CONNECTOR
2 WAY





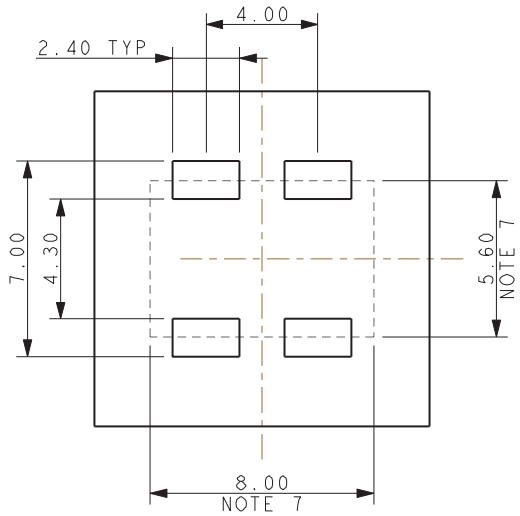




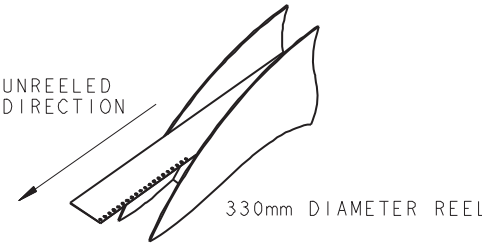


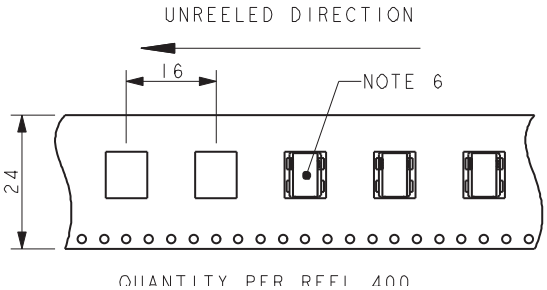
NOTES:
1. TOP MOUNT 2 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-151 AND APPLICATION NOTES 201-01-152.
2. SUITABLE FOR WIRES 18AWG TO 26AWG. MAXIMUM INSULATION 2.20MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 92.
4. CONTACT: TIN PLATE COPPER ALLOY.
5. PACKING IN TAPE AND REEL. QTY PER REEL 400, 330MM REEL.
6. CAPTON TAPE TO AID PICK AND PLACE, 4MM DIAMETER MAX AVAILABLE.
7. CONNECTOR OUTLINE.
8. GENERAL TOLERANCE ±0.20.
9. UL REFERENCE E90723.

SUGGESTED PCB LAYOUT



PACKING DETAILS



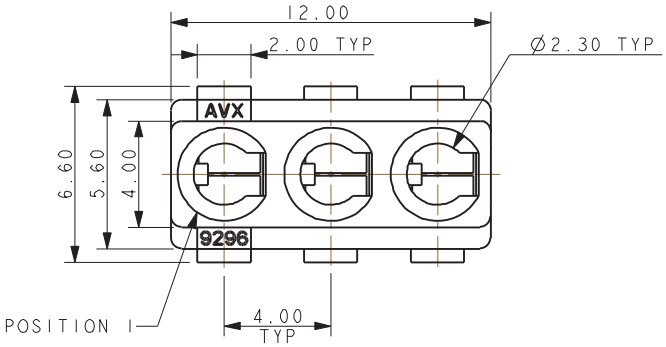


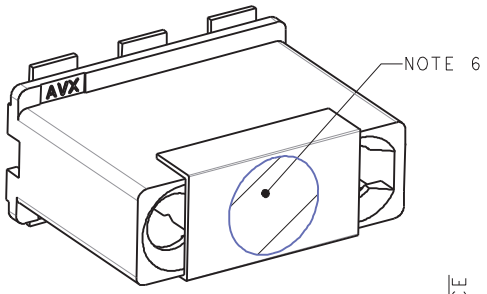
Poke-Home: Vertical Top Entry 18-26 AWG: WTB

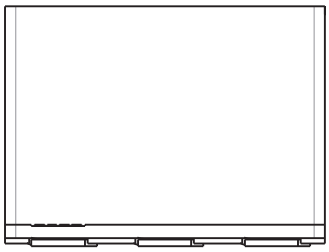
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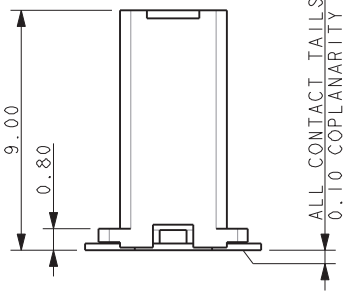
9296 TOP MOUNT POKE HOME CONNECTOR

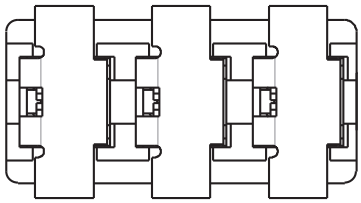
3 WAY







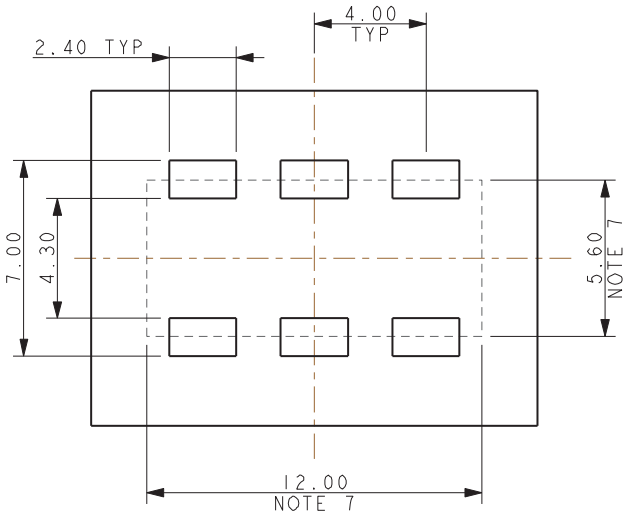




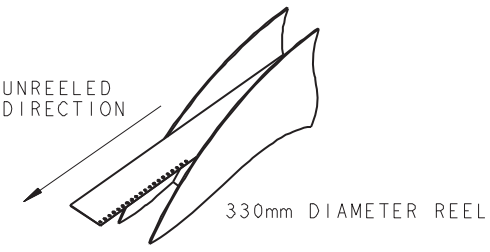
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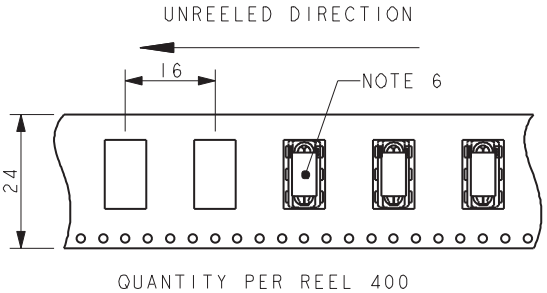
1. TOP MOUNT 3 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-151 AND APPLICATION NOTES 201-01-152.
2. SUITABLE FOR WIRES 18AWG TO 26AWG. MAXIMUM INSULATION 2.20MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 92.
4. CONTACT: TIN PLATE COPPER ALLOY.
5. PACKING IN TAPE AND REEL. QTY PER REEL 400, 330MM REEL.
6. CAPTON TAPE TO AID PICK AND PLACE, 4MM DIAMETER MAX AVAILABLE.
7. CONNECTOR OUTLINE.
8. GENERAL TOLERANCE ±0.20.
9. UL REFERENCE E90723.

SUGGESTED PCB LAYOUT



PACKING DETAILS



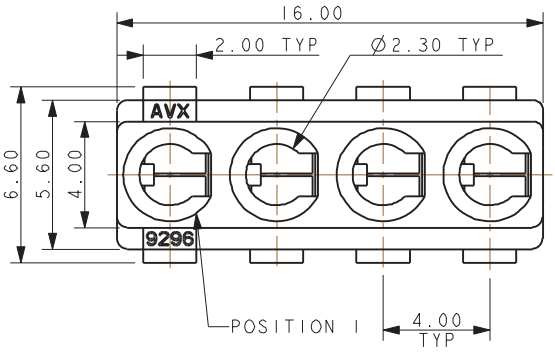


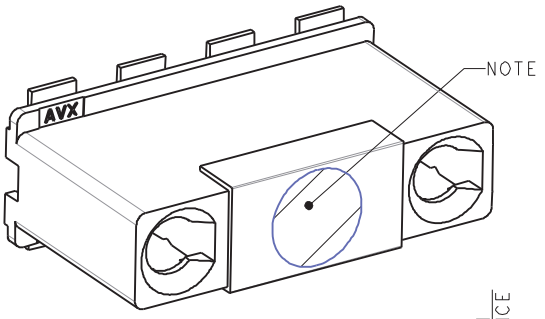
Poke-Home: Vertical Top Entry 18-26 AWG: WTB

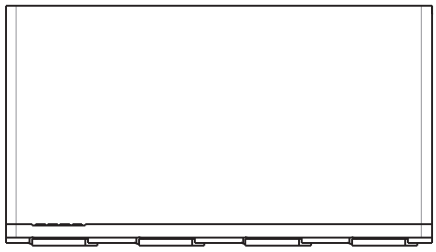
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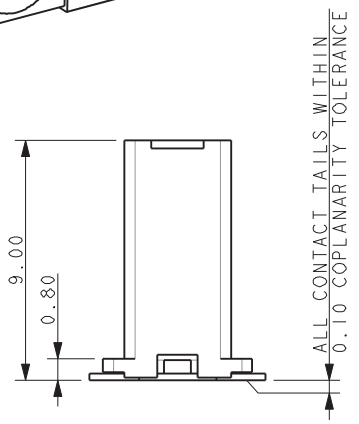
9296 TOP MOUNT POKE HOME CONNECTOR

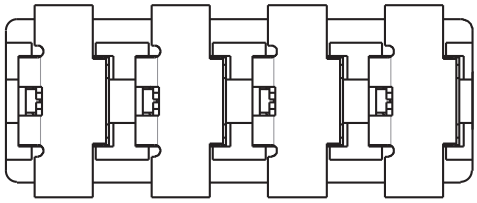
4 WAY







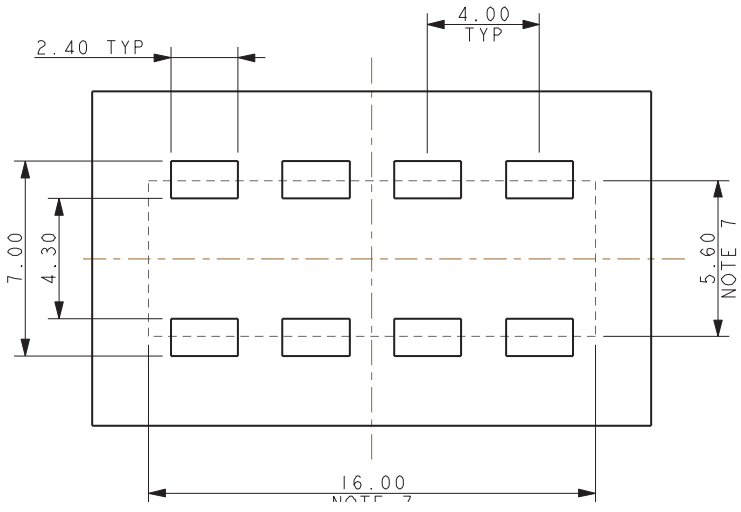




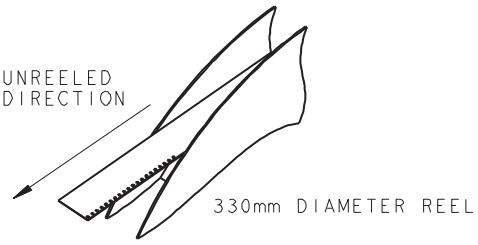
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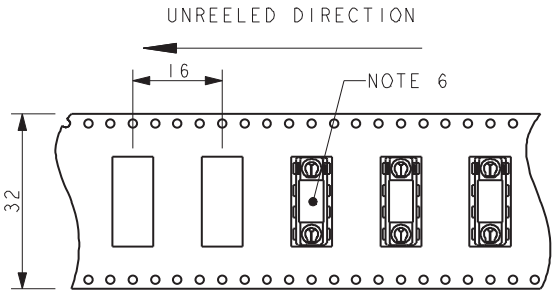
1. TOP MOUNT 4 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-151 AND APPLICATION NOTES 201-01-152.
2. SUITABLE FOR WIRES 18AWG TO 26AWG. MAXIMUM INSULATION 2.20MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 92.
4. CONTACT: TIN PLATE COPPER ALLOY.
5. PACKING IN TAPE AND REEL. QTY PER REEL 400, 330MM REEL.
6. CAPTON TAPE TO AID PICK AND PLACE, 4MM DIAMETER MAX AVAILABLE.
7. CONNECTOR OUTLINE.
8. GENERAL TOLERANCE ±0.20.
9. UL REFERENCE E90723.

SUGGESTED PCB LAYOUT



PACKING DETAILS



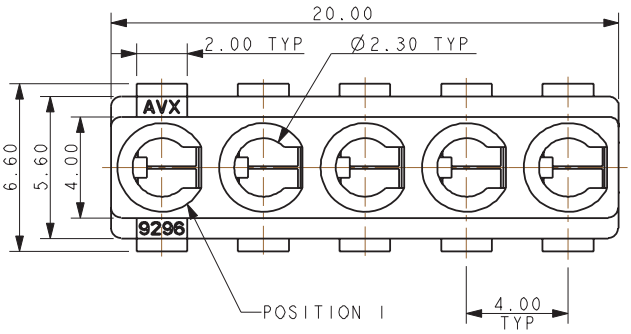


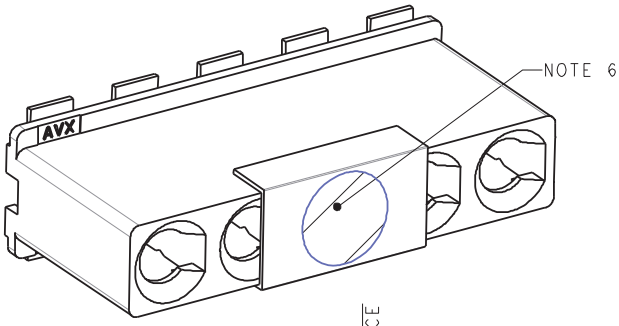
Poke-Home: Vertical Top Entry 18-26 AWG: WTB

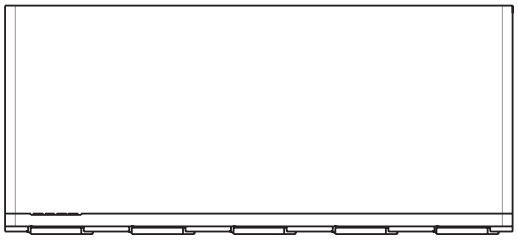
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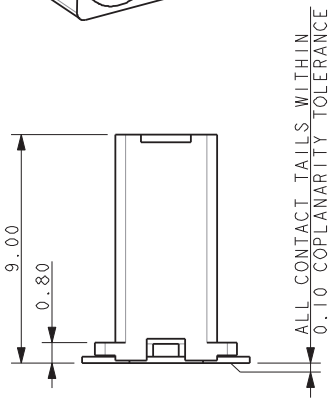
9296 TOP MOUNT POKE HOME CONNECTOR

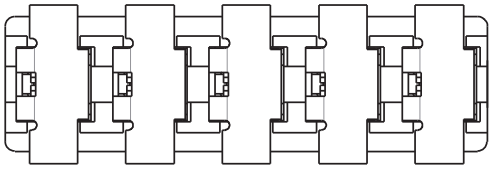
5 WAY







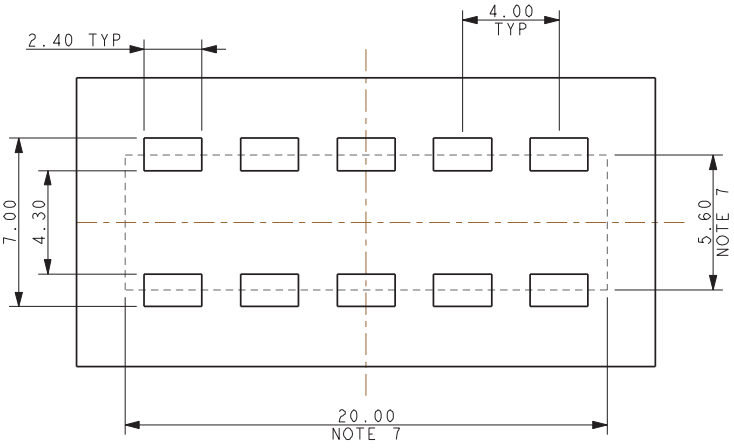




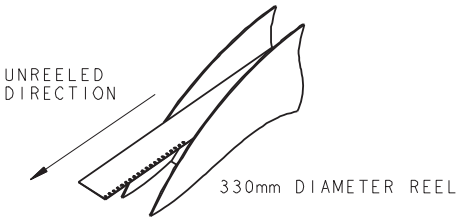
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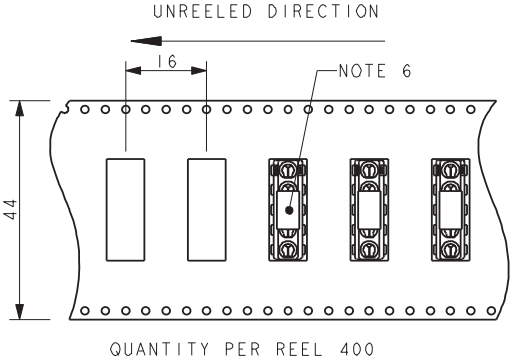
1. TOP MOUNT 5 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-151 AND APPLICATION NOTES 201-01-152.
2. SUITABLE FOR WIRES 18AWG TO 26AWG. MAXIMUM INSULATION 2.20MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 92.
4. CONTACT: TIN PLATE COPPER ALLOY.
5. PACKING IN TAPE AND REEL. QTY PER REEL 400, 330MM REEL.
6. CAPTON TAPE TO AID PICK AND PLACE, 4MM DIAMETER MAX AVAILABLE.
7. CONNECTOR OUTLINE.
8. GENERAL TOLERANCE ±0.20.
9. UL REFERENCE E90723.

SUGGESTED PCB LAYOUT



PACKING DETAILS



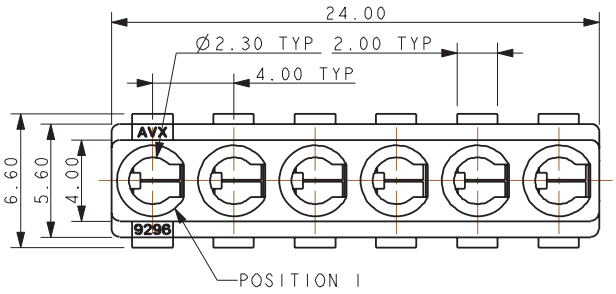


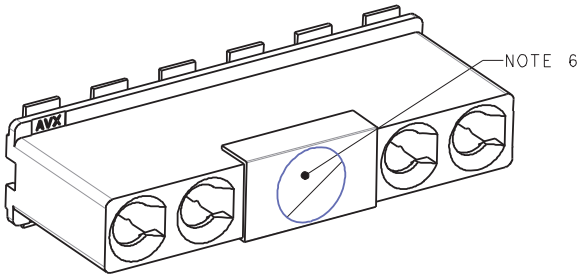
Poke-Home: Vertical Top Entry 18-26 AWG: WTB

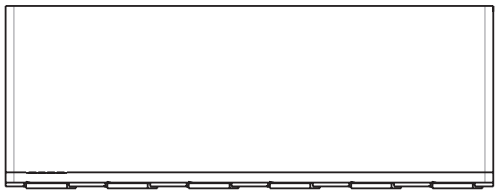
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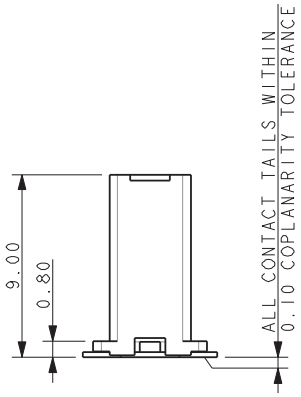
9296 TOP MOUNT POKE HOME CONNECTOR

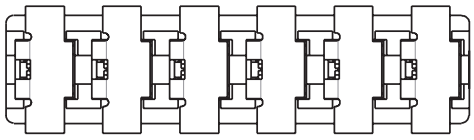
6 WAY







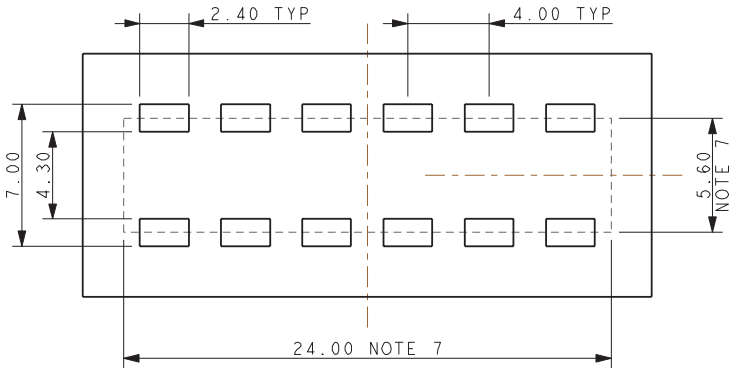




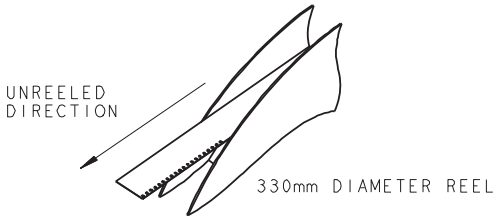
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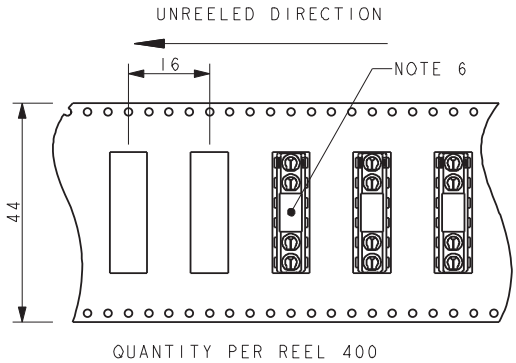
1. TOP MOUNT 6 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-151 AND APPLICATION NOTES 201-01-152.
2. SUITABLE FOR WIRES 18AWG TO 26AWG. MAXIMUM INSULATION 2.20MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 92.
4. CONTACT: TIN PLATE COPPER ALLOY.
5. PACKING IN TAPE AND REEL. QTY PER REEL 400, 330MM REEL.
6. CAPTON TAPE TO AID PICK AND PLACE, 4MM DIAMETER MAX AVAILABLE.
7. CONNECTOR OUTLINE.
8. GENERAL TOLERANCE ±0.20.
9. UL REFERENCE E90723.

SUGGESTED PCB LAYOUT

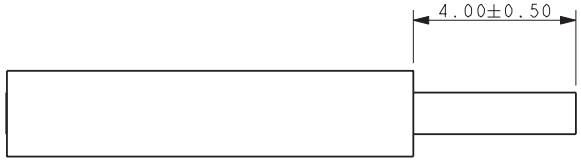


PACKING DETAILS

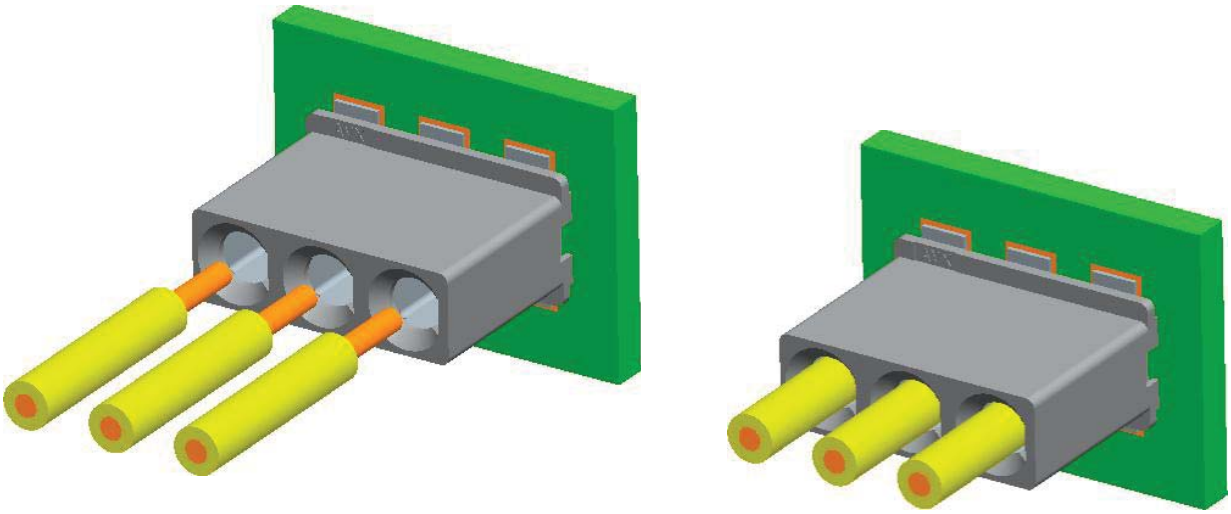




9296 TOP MOUNT POKE HOME CONNECTOR ASSEMBLY

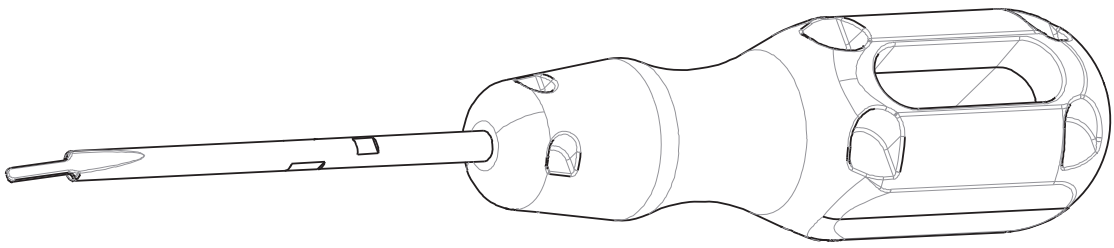


WIRE STRIP LENGTH



Refer to application notes 201-01-152 for full assembly procedure.

9296 TOP MOUNT POKE HOME CONNECTOR WIRE EXTRACTION TOOL



06-9296-7003-01-000

Refer to application notes 201-01-152 for full wire extraction procedure.

Unikeyic Electronics

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AVX:

08053D106KAT4A 600S1R0AT250XT4K 609176001415000 TAJY107K016RNJ 04025A101KAT2A 04025C821KAT2A 08055C682KAT2A FE52GI8I0227KB 1812HA101JAT2A TAJB476K006RNJ TPME226K050R0075 06033C104KAT2A 08055A471JAT2A 12061C473JAT2A NOJA226M006RWJ SD1206S020S1R0 TCJA336M006R0200E DT2012SB32768H5HPWAA GG0402126R042P TAJC337K006RNJ VC120618D400DP 0402YC103KAT4A 600S3R3AW250XT TPSB336K010R0500 04023C103KAT2A TCJB106M035R0200 TCJB476M010R0070E TPSC227K006R0100 SCCY68B407SSBLE TCJB476M010R0070