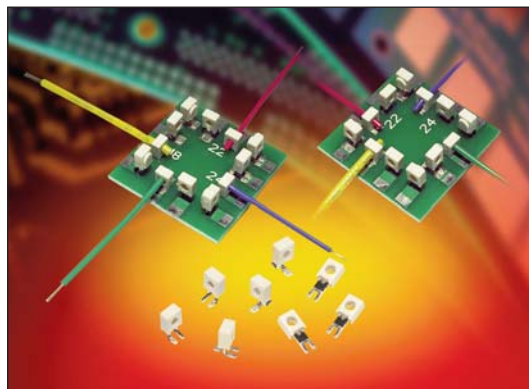


Single Tine PTH 18-24 AWG: WTB

9176-600



The market and applications for simple and reliable discrete Wire-to-Board (WTB) connectors continue to evolve. Developed for harsh industrial and automotive applications, Insulation Displacement Connectors (IDC) have been used in hundreds of applications connecting wires to PCB's from transportation wiring to every day LED lighting and smart meter/sensor connections. Size, performance and simplicity have been the key factors for selecting this connector when long term reliability is critical.

This single contact version of the proven 9176 family of connectors is the first in Plated Through Hole (PTH) termination. While supporting all of the features and benefits from the SMT offering, this connector provides a new option for a small, cost effective and high performance WTB solution.

APPLICATIONS

- Machine Controls: motors, drives, solenoids, sensors, fans and pumps
- Commercial Buildings: controls, security, fire and sensors
- Smart Grid: meters, breakers and panels
- SSL/LED: bulbs, fixtures, signage and streetlights
- Application notes: reference 201-01-142

FEATURES AND BENEFITS

- IDC contact provides a gas-tight connection to the PCB for long term reliability
- Plastic cap retains the contact and then acts as the assembly tool to terminate the wires; no special tooling.
- Tested to automotive levels on shock, vibration and temperature cycling for reliability
- The IDC contact reduces the total applied cost versus solder or crimp processes
- Connectors are available in two configurations for maximum flexibility: End and Through Wire

ELECTRICAL

- Current Rating: See matrix below
- Voltage Rating: 600 VAC

ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Phosphor Bronze
- Contact Plating: Tin over Nickel
- Durability: 3 Cycles

HOW TO ORDER

00	9176	001	60X	9	X	6
Prefix	Series	Number of Ways 001 = 1	Contact Style	Color Option White Standard	Cap Options	Plating Option Tin Plated
			Code	Description	Accepted Wire Gauge	Wire Gauges
			600	Capped IDC Connector PTH PCB Mount	18 AWG Stranded	ø1.6-2.1
			601		20 AWG Solid and Stranded	ø1.6-2.1
			602		22 AWG Solid and Stranded	ø1.1-1.6
			603		24 AWG Solid and Stranded	ø1.1-1.6

Code	Cap Option	Description	Details
0	Through Wire	Allows wire to be terminated at any point	See page 2
9	Wire Stop	Terminates end of wire End protected by stop face	See page 3

CURRENT RATING

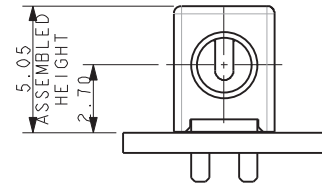
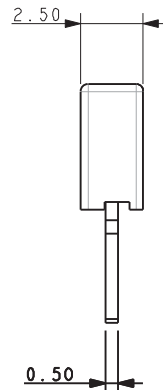
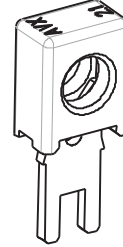
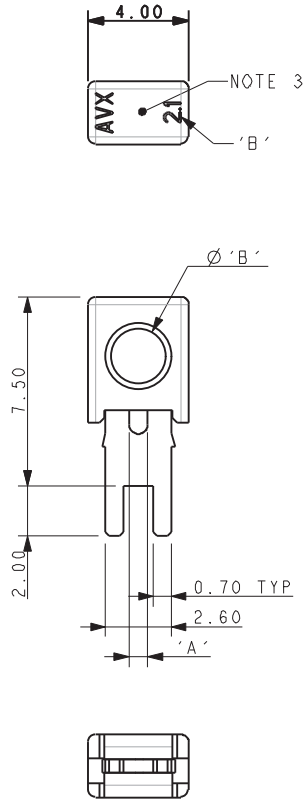
18AWG	20AWG	22AWG	24AWG
9A	8A	6A	5A



Single Tine PTH 18-24 AWG: WTB

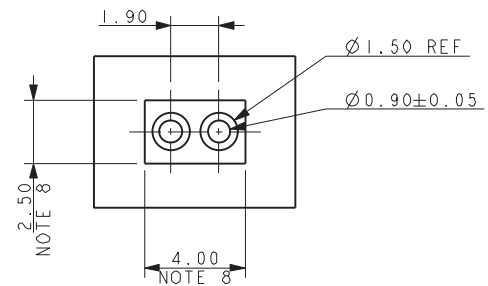
9176-600

18-24 AWG 1 WAY PTH CONNECTOR THROUGH WIRE CAPPED

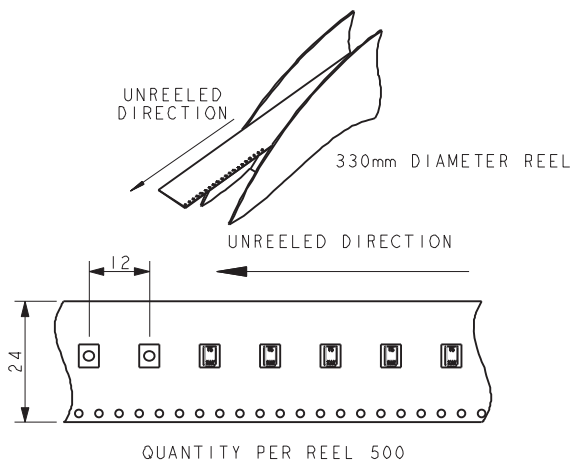


Code	Accepted Wire Gauge	A	Wire Insulation	B
600	18 AWG Stranded	0.74	Ø 1.6-2.1	2.1
601	20 AWG Solid or Stranded	0.60	Ø 1.6-2.1	2.1
602	22 AWG Solid or Stranded	0.47	Ø 1.1-1.6	1.6
603	24 AWG Solid or Stranded	0.37	Ø 1.1-1.6	1.6

SUGGESTED PCB LAYOUT



PACKING DETAILS



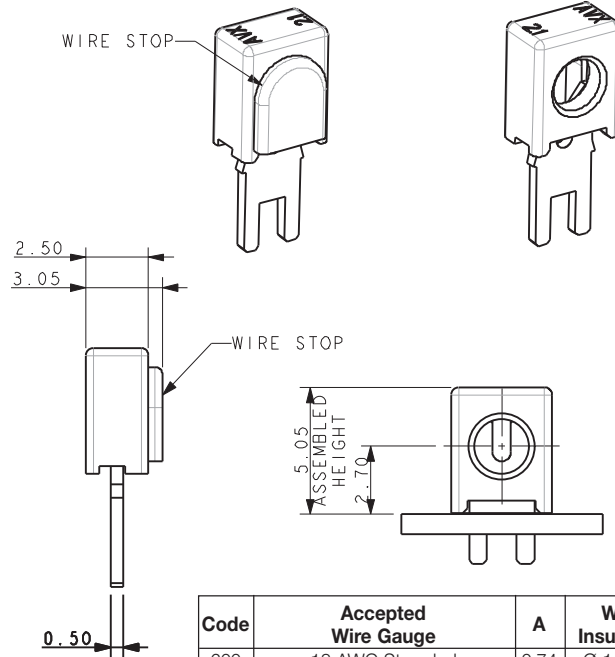
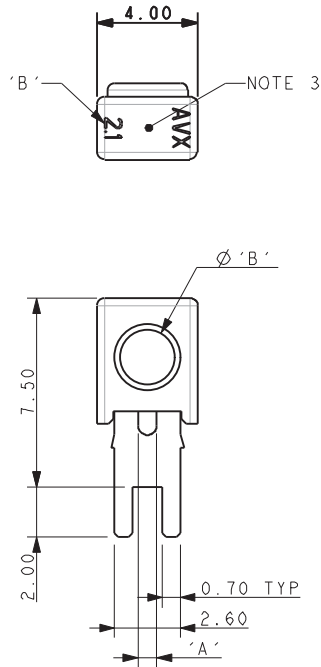
NOTES:

- 1 WAY CONNECTOR FOR PTH WIRE TO BOARD CONNECTION, PRE-ASSEMBLED THROUGH WIRE CAP, CODE SEE PAGE 1.
- CONTACT/CAP TO MATCH 20AWG-24AWG SOLID AND STRANDED WIRES, 18AWG WILL ONLY ACCEPT STRANDED WIRES, SEE TABLE.
- FLAT FACE ON TOP OF CAP TO AID PICK AND PLACE ASSEMBLY, MAXIMUM DIAMETER 1.8MM.
- FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-163.
- ASSEMBLY PROCEDURE, REFER TO APPLICATION NOTES 201-01-142.
- GENERAL TOLERANCE ± 0.20 UNLESS STATED.
- PACKED IN TAPE AND REEL, QUANTITY PER REEL 500.
- CONNECTOR OUTLINE.
- CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
- INSULATION MATERIAL: HIGH TEMPERATURE NYLON, GLASS FILLED, UL94 V-O. COLOR REFER TO PAGE 1.

Single Tine PTH 18-24 AWG: WTB

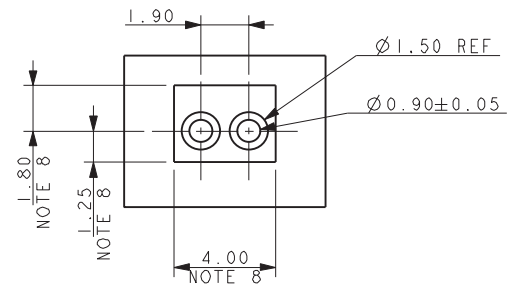
9176-600

18-24 AWG 1 WAY PTH CONNECTOR WIRE STOP CAPPED

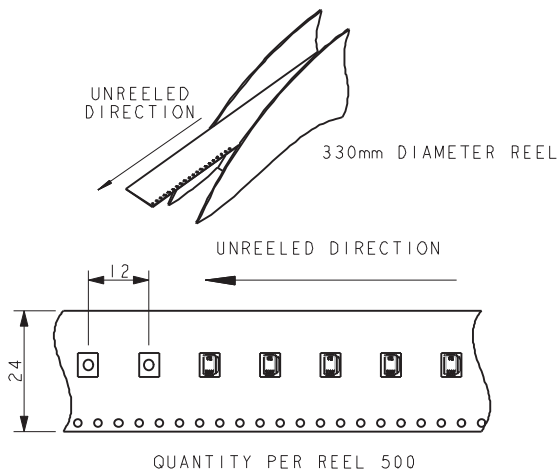


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SUGGESTED PCB LAYOUT



PACKING DETAILS



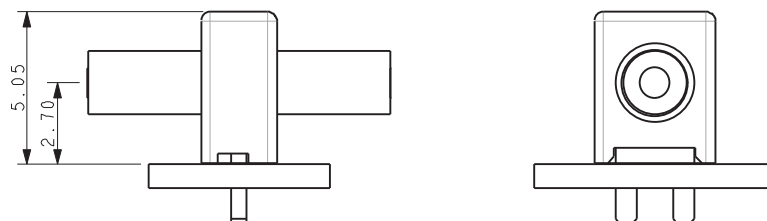
NOTES:

1. 1 WAY CONNECTOR FOR PTH WIRE TO BOARD CONNECTION, PRE-ASSEMBLED WIRE STOP CAP, CODE SEE PAGE 1.
2. CONTACT/CAP TO MATCH 20AWG-24AWG SOLID AND STRANDED WIRES, 18AWG WILL ONLY ACCEPT STRANDED WIRES, SEE TABLE.
3. FLAT FACE ON TOP OF CAP TO AID PICK AND PLACE ASSEMBLY, MAXIMUM DIAMETER 1.8MM.
4. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-163.
5. ASSEMBLY PROCEDURE, REFER TO APPLICATION NOTES 201-01-142.
6. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
7. PACKED IN TAPE AND REEL, QUANTITY PER REEL 500.
8. CONNECTOR OUTLINE.
9. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
10. INSULATION MATERIAL: HIGH TEMPERATURE NYLON, GLASS FILLED, UL94 V-O. COLOR REFER TO PAGE 1.
11. WIRE STOP CAP PROTECTS END OF WIRE.

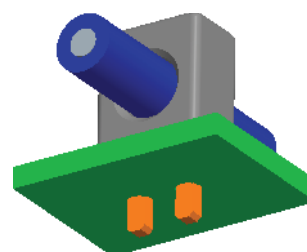
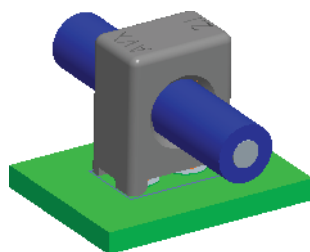
Single Tine PTH 18-24 AWG: WTB

9176-600

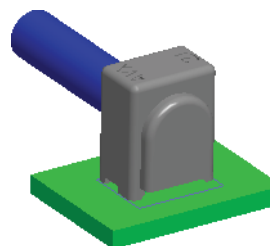
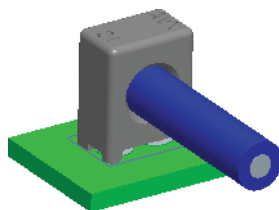
18-24 AWG ASSEMBLED CAPPE PTH CONNECTORS



NOMINAL ASSEMBLED HEIGHTS



TYPICAL THROUGH WIRE ASSEMBLIES



TYPICAL WIRE STOP ASSEMBLIES

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