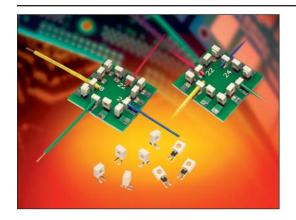
Single Tine SMT 18-24 AWG: WTB

A KYOCERA GROUP COMPANY

9176-650



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 offers a lower cost solution to the market with only a 10% reduction in current rating. The SMT footprint is backward compatible with the standard dual contact configurations; offers all the same wire gauges and termination benefits of the integrated cap and provides a 10% height reduction.

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 in position prior to automatic placement, 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
- Identical contact and footprint pattern to the existing 9176 for full backward compatibility and functionality
- 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

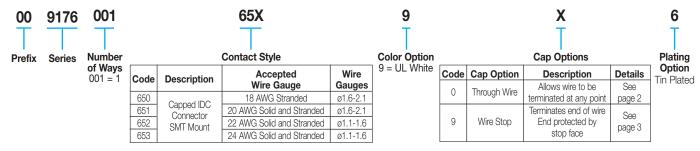
ENVIRONMENTAL

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

MECHANICAL

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

HOW TO ORDER



CURRENT RATING

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

Certification: UL File #E90723



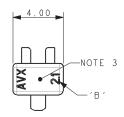


Single Tine SMT 18-24 AWG: WTB

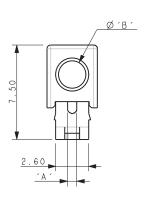
9176-650

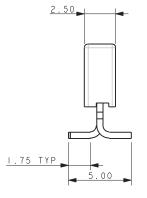


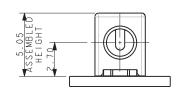
18-24 AWG 1 WAY IDC CONNECTOR THROUGH WIRE CAPPED







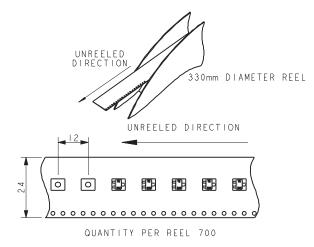




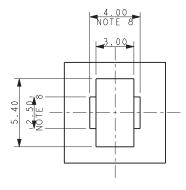
Code	Accepted Wire Gauge	Α	Wire Insulation	В
650	18 AWG Stranded	0.74	Ø 1.6-2.1	2.1
651	20 AWG Solid or Stranded	0.60	Ø 1.6-2.1	2.1
652	22 AWG Solid or Stranded	0.47	Ø 1.1-1.6	1.6
653	24 AWG Solid or Stranded	0.37	Ø 1.1-1.6	1.6



PACKING DETAILS



SUGGESTED PCB LAYOUT



NOTES:

- 1 WAY CONNECTOR FOR IDC 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.
- 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 700.
- 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.

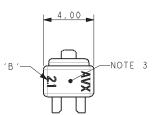


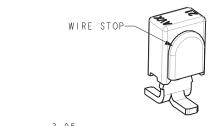
Single Tine SMT 18-24 AWG: WTB

9176-650

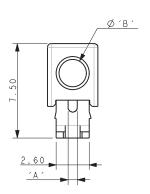


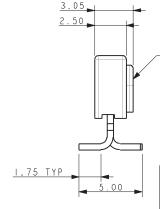
18-24 AWG 1 WAY IDC CONNECTOR WIRE STOP CAPPED

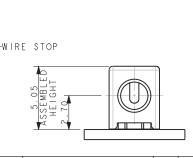










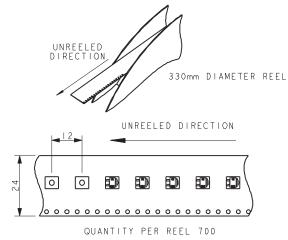


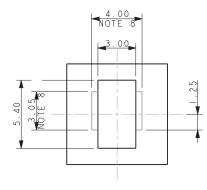
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SUGGESTED PCB LAYOUT



PACKING DETAILS





NOTES:

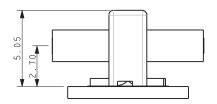
- 1 WAY CONNECTOR FOR IDC WIRE TO BOARD CONNECTION, PRE-ASSEMBLED WIRE STOP CAP, CODE SEE PAGE 1.
- CONTACT/CAP TO MATCH 20AWG-24AWG SOLID AND STRANDED WIRES, 18AWG WILL ONLY ACCEPT STRANDED WIRES, SEE TABLE.
- 3. FLAT FACE ON TOP OF CAP TO AID PICK AND PLACE ASSEMBLY, MAXIMUM DIAMETER 1.8MM.
- 4. FOR 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 700.
- 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.

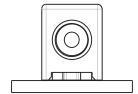




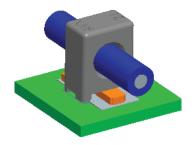
9176-650

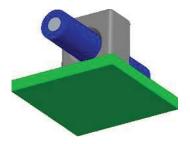
18-24 AWG ASSEMBLED CAPPE IDC CONNECTORS



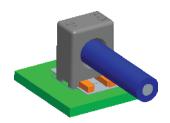


NOMINAL ASSEMBLED HEIGHTS





TYPICAL THROUGH WIRE ASSEMBLIES





TYPICAL WIRE STOP ASSEMBLIES



单击下面可查看定价,库存,交付和生命周期等信息

>>AVX