



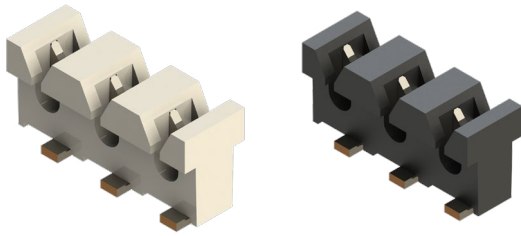
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009175002001006



STANDARD IDC 26-28 AWG: 9175-000



General Information



The 917X Series of Surface Mount Insulation Displacement Connectors (IDC) are designed to meet the harsh requirements of automotive and industrial applications. This industry proven connector series provides a rugged, reliable and efficient method of connecting single wires from 12 AWG to 30 AWG directly to a PCB. The single-contact design can function as a stand-alone component. It gives our designers access to IDC technology in an easy-to-use form factor, allowing them to bring power and signal to a PCB in a wide range of applications. These connectors have been tested to various levels of shock, vibration and temperature cycling to prove their reliability and ruggedness. The ease of inserting a wire into an SMT contact using a small tool or optional retention/termination cap allows a wide range of devices to be connected to the PCB without soldering. The IDC contact provides a gas-tight connection to the wire and the optional cap provides positive strain relief even in the harshest conditions. In the event of a repair, the wires can be removed and replaced up to three times.

The 9175 Series accepts 26 AWG to 28 AWG wires with insulation diameters ranging from 0.7 mm to 1.0 mm. These connectors support a current rating of 1 amp and feature a split SMT tail design for maximum stability on the PCB. Available in 2p and 3p configurations, these connectors can be end-stacked for higher pin counts.

APPLICATIONS

- Connecting discrete wire components directly to the PCB
- Bringing power and signals onto a PCB
- Daisy chaining PCB's together to create a continuous string of boards
- Application Notes: Refer to 201-01-124
- Product Specification: Refer to 201-01-100

FEATURES AND BENEFITS

- IDC contact provides a gas-tight connection to the PCB for long term reliability
- Connector housing captures the wire insulation for positive strain relief
- Tested to various levels on shock, vibration and temperature cycling for reliability
- Low and high volume assembly tools to match production volumes
- Reduced total applied cost versus solder or crimp processes
- High temperature insulator capable to 260°C reflow soldering processes

ELECTRICAL

- Current Rating: 1 Amp / Contact
- Voltage Rating: 150 VAC (RMS) or DC Equivalent

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Nylon 46: UL94V0
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 3 Cycles

HOW TO ORDER

00 Prefix
9175 Series
00X Number of Ways
002 = 2
003 = 3

00X Wire Gauge Size

Code	Accepted Wire Gauge	Wire Insulation
001	28 Gauge Solid or Stranded	Ø 0.70 to Ø 1.00
002	26 Gauge Solid or Stranded	Ø 0.70 to Ø 1.00

X Insulator Color
9 = UL White
8 = UL Black Special Order

06 Plating Option
06 = Pure Tin all over



SALES DRAWINGS
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CONNECTOR/TOOLING PART NUMBER MATRIX

SERIES 9175 IDC					HAND INSERTION TOOLING*			ACCESSORY CAPS		
AWG	Wire Insulation	Positions	Color	Part Number	Plastic (medium volume)	Metal (high volume)	Mass Termination	Though Wire	Wire Stop	
26	Ø 0.7 - 1.0	2p	White	009175002002906	069175701601000	069175701701000	069175701701002	609175002010100	609175002010199	
26	Ø 0.7 - 1.0	2p	Black	009175002002806				609175002010000	609175002010099	
26	Ø 0.7 - 1.0	3p	White	009175003002906			069175701701003	069175701701002	609175003010100	609175003010199
26	Ø 0.7 - 1.0	3p	Black	009175003002806					609175003010000	609175003010099
28	Ø 0.7 - 1.0	2p	White	009175002001906			069175701701002	069175701701002	609175002010100	609175002010199
28	Ø 0.7 - 1.0	2p	Black	009175002001806					609175002010000	609175002010099
28	Ø 0.7 - 1.0	3p	White	009175003001906			069175701701003	069175701701003	609175003010100	609175003010199
28	Ø 0.7 - 1.0	3p	Black	009175003001806					609175003010000	609175003010099

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

Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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 [AVX Corp/Kyocera Corp](#) Information

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