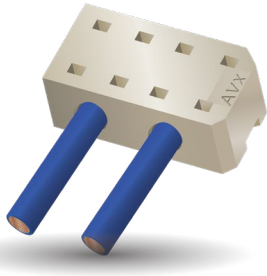


LOW PROFILE IDC 22-30 AWG: 9176-800

General Information



KYOCERA AVX industrial/transportation grade Insulation Displacement Connectors (IDC) have been proven in the market for over ten years. Offering a very simple one-step termination process, these connectors have proven to be a robust wire-to-board (WTB) termination in harsh applications.

The 9176-800 series is specifically designed for 22-30 AWG discrete wires in size-critical applications. With a 1.0mm reduction in "Z" axis height and up to a 50% reduction in overall volume, this package size is an ideal choice for space-constrained applications over previous IDC connectors. In addition, an expanded size range is available from 1 position to 4 positions in each wire gauge. The entire range offers new packaging solutions for industrial, medical and transportation applications such as smart metering, LED lighting, industrial controls and portable monitoring and measurement devices.

APPLICATIONS

- Connecting discrete wires and components to a PCB
- Bringing power and signals onto a PCB
- Daisy chaining or interconnecting PCB's together
- Application Notes: Refer to 201-01-216
- Product Specification: Refer to 201-01-215

FEATURES AND BENEFITS

- Redundant and fatigue resistant phosphor bronze material provides a gas tight, cold welded connection to the wire
- IDC connectors can be potted or over molded to encapsulate electronic modules and provide environmental protection
- The 1p version is available in industry standard colors to match individual wires for error free wire termination
- UL Approved

ELECTRICAL

- Current Rating: 22 AWG: 7 Amps
24 AWG: 6 Amps
26 AWG: 5 Amps
28 AWG: 4 Amps
30 AWG: 3 Amps
- Voltage Rating: 1p: 600 VAC (RMS) or DC Equivalent
2p-4p: 100 VAC (RMS) or DC Equivalent

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Phosphor Bronze
- Plating: Lead-Free Tin Over Nickel
- Durability: 1 Cycle

HOW TO ORDER

00 **9176** **00X**
Prefix Series Number of Ways
001 = 1
002 = 2
003 = 3
004 = 4

8XX
Wire Gauge Size

Code	Accepted Wire Gauge	Maximum Wire Insulation Diameter
853	22 AWG Solid and Stranded	1.40
863	24 AWG Solid and Stranded	1.40
873	26 AWG Solid and Stranded	1.40
883	28 AWG Solid and Stranded	0.80 to 1.40
884	28 AWG Solid and Stranded	0.80
893	30 AWG Solid and Stranded	0.80 to 1.40
894	30 AWG Solid and Stranded	0.80

X
Insulator Color
9 = White (Standard)
2 = Brown (Special Order)
3 = Blue (Special Order)
4 = Yellow (Special Order)
5 = Red (Special Order)
6 = Green (Special Order)
7 = Orange (Special Order)
8 = Black (Special Order)

Color options only available for 1 position

06
Plating Option
06 = Pure Tin All Over Nickel



SALES DRAWINGS
CLICK TO DOWNLOAD

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



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

TDS-WTB-0003 | Rev 3

— WIRE-TO-BOARD CONNECTORS —