



# 9176-800 SERIES

## 22-30AWG LOW PROFILE IDC



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<http://datasheets.avx.com/AVX-9176-800.pdf>

AVX INTERCONNECT

### SPECIFICATIONS

- **Operating Temperature:** -40°C to +125°C
- **Voltage:** 1p: 600VAC, 2p-4p 300VAC
- **Current:** 22 AWG - 6A  
24 AWG - 5A  
26 AWG - 4A  
28 AWG - 3A  
30 AWG - 3A

### APPLICATIONS

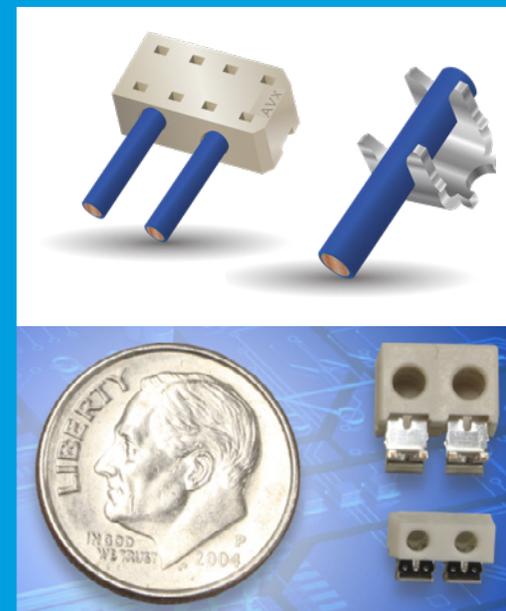
- Industrial Controls
- Commercial Buildings
- Controls, security, and monitoring
- Handheld Devices

### TOP SELLING POINTS & FEATURES

- Expansion reduces the "Z" axis height by 1.0mm against the AVX 9176-400 Series
- Capped design provides simple flat rock termination
- Colored insulators to match wire colors at no additional cost
- 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

### AVX ADVANTAGE

- Redundant, fatigue resistant phosphor bronze contacts provide cold welded wire connection
- IDC connectors can be potted or over molded to encapsulate electronic modules and provide environmental protection
- 1p version is available in 8 colors to promote error free wire termination
- No current competition in industrial IDC market





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## HOW TO ORDER

**00**

**Prefix**  
Wire to Board  
Connector

**9176**

**Series**

**00X**

**Number of Ways**  
001 = 1  
002 = 2  
003 = 3  
004 = 4

**8XX**

**Wire Gauge Size**

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

**X**

**Insulator Color**  
9 = White Standard

Solid Colors (1p only)  
2 = Brown  
3 = Blue  
4 = Yellow  
5 = Red  
6 = Green  
7 = Orange  
8 = Black  
9 = White

**06**

**Plating Option**  
06 = Pure Tin  
All Over Nickel

## FAQs

**Q: Can solid and stranded wire be used?**

A: Yes

**Q: Is the part UL approved?**

A: Yes, all wire gauge sizes are UL approved.

**Q: Can the connector be potted to make waterproof in transportation and outdoor applications?**

A: Yes, just like any other AVX IDC contact or connector system



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