

## Features and Benefits

The Industrial Ethernet connector system is ideal for harsh environments such as factory floors, hospital wash rooms, food processing plants, chemical refineries and warehouses. The system protects connections from dust, moisture, dirt, vibration, chemicals, electromagnetic interference and temperature extremes.

## Reference Information

Parts List

■ Industrial Ethernet Coupler, Plug or Dust Cover

## Technical Information

### Mechanical Characteristics

Durability: 500 Cycles  
Wire Range: 24 AWG  
Tightening Torque–Locking Ring: ≤10 in. lbs.  
Destructive Torque–Locking Ring: >20 in. lbs  
Tightening Torque–Strain Relief/Cable Seal: >25 in. lbs  
Flame Rating: UL 94V-0  
Limiting O2 Index: 32%

### Material

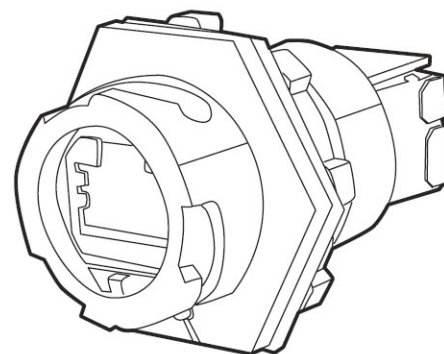
Assy.–Modular Plug: SD-44915-001  
Tether–Dust Cap: PP or PA  
Nut–Jam/Lock: Zn/Steel  
Gaskets–Panel: Neoprene  
O–Ring: Nitrile  
Assy.–Strain Relief/Cable Seal: PA, TPE gland (Black) Assy.–Plug Holder, Receptacle, Dust Cap, Locking Ring, Wedge: PBTP (Black)  
Assy.–PCB/Jack: E-84701-0021  
Screw–Dust Cap: Zn/Steel  
Gasket–Dust Cap/Body: Nitrile

### Environmental

Operating Temperature: 40°C to 85°C  
Dust Tight & Temporary Water Immersion Proof: CEI/IEC #IP67  
UL RTI Electrical: 130°C @ .03 in.  
UL TRI Mechanical w/o Impact: 140°C @ .03 in.

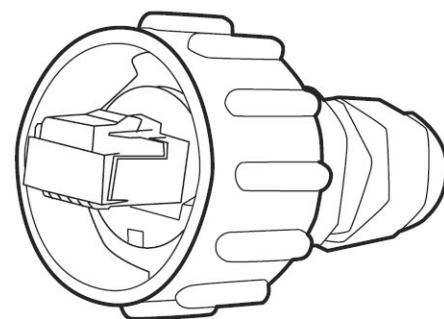
### Electrical/Optical Characteristics

Transmission Performance RJ-45  
Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20dB min  
Type: FCC 68 Plugs/jacks, proposed Cat 6 applications  
Contact Resistance (LLCR): 20 mΩ max  
Maximum Voltage: 150VAC  
Maximum Current: 1.5A  
Dielectric Withstand: 1,000VAC (Adjacent Contacts)  
1,500VAC (Contacts to Ground)  
Insulation Resistance: 500 MΩ min



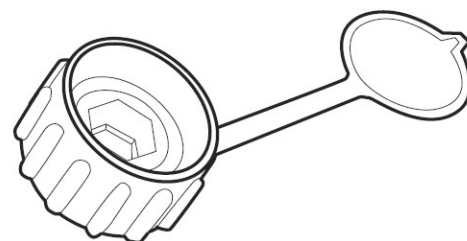
### Industrial Ethernet Coupler

Dimensions: 28.7mm x 50.8mm (1.13"W x 2"D)  
Shipping Weight: 33g (1.17oz.)



### Industrial Ethernet Plug

Dimensions: 28.7mm x 57.2mm (1.13"W x 2.25"D)  
Shipping Weight: 22g (.79oz.)



### Industrial Ethernet Dust Cover

Dimensions: 28.7mm x 25.4mm (1.13"W x 1"D)  
Shipping Weight: 6.5g (.58 oz.)

## ORDERING INFORMATION

Order No.	SAP No.	Description
84700-0001	Consult Molex	Industrial Ethernet Coupler
84700-0002	Consult Molex	Industrial Ethernet Plug
84700-0003	Consult Molex	Industrial Ethernet Dust Cover

## MOLEX PREMISE NETWORKS

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**APAC**  
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