

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

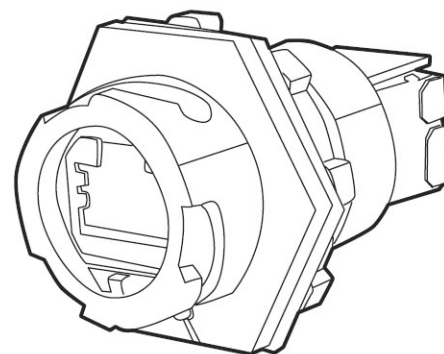
Assy.–Modular Plug: SD-44915-001
Tether–Dust Cap: PP or PA
Nut–Jam/Lock: Zn/Steel
Gaskets–Panel: Neoprene
O–Ring: Nitrile
Assy.–Strain Relief/Cable Seal: PA, TPE gland (Black) Assy.–Plug Holder, Receptacle, Dust Cap, Locking Ring, Wedge: PBTP (Black)
Assy.–PCB/Jack: E-84701-0021
Screw–Dust Cap: Zn/Steel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

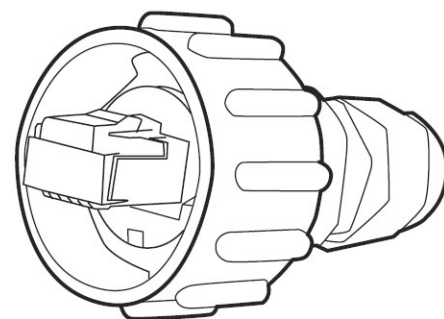
Electrical/Optical Characteristics

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



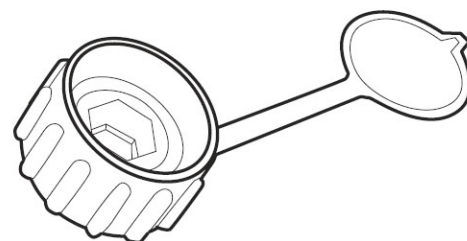
Industrial Ethernet Coupler

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

Americas
Tel: 630 969 4550
www.molexpn.com

EMEA
Tel: 44 (0)2392 205800
www.molexpn.co.uk

APAC
Tel: 61 3 9971 7111
www.molexpn.com.au