

RJ-45 EtherNet/IP* Overmolded Cordsets, IDT and PCB Receptacles

84702



RJ-45 Ethernet/IP Cordsets and Receptacles are ideal for use in environments where EtherNet protocol is used, including manufacturing facilities, water treatment plants and transportation hubs. Designed with one sealing surface, the connectors ensure optimum performance even in harsh environments.

The overmolded cordsets and IDT and PCB receptacles meet the EtherNet/IP Specifications of both the Open DeviceNet[†] Vendors Association and ControlNet[‡] Vendors Association.

*EtherNet/IP and †DeviceNet are trademarks of the Open DeviceNet Vendor Association. For more information, visit: www.odva.org ‡ControlNet is a trademark of ControlNet International, Ltd. For more information, visit: www.controlnet.org

Features and Benefits

- One sealing surface reduces chance of failure
- Bayonet style latch receptacle provides quick and easy connections as well as ensures proper depth when mating
- IP 67 and NEMA 6P ratings ensure cordsets are water and dust tight for functional integrity
- Category 5e specified^s provides high datatransmission speeds
- Overmolded versus field wireable cordsets allow faster installation at customer site

SNote: Category 5e specified for: Industrial EtherNet RJ-45 Panel Mounting Receptacle, Punchdown Receptacle and RJ-45 Molded Cordsets



(Left to right) Punchdown Receptacle (side view), Overmolded Cordset and PCB Mounting Receptacle



(Left to right) Punchdown Receptacle (bottom view), Overmolded Cordset and top view of PCB Mounting Receptacle

SPECIFICATIONS

Reference Information

Packaging: Bag Mates With: 84700 series Designed In: Inches

Electrical

Voltage: 150V AC (125V AC for receptacles)

Current: 1.5A

Contact Resistance: $20~\text{m}\Omega$ max. Dielectric Withstanding Voltage: 1,000 VAC (adjacent contacts) 1,500 VAC (contacts to ground) Insulation Resistance: $500~\text{M}\Omega$ min.

Mechanical

Durability: 200 Cycles
Coupling Ring Destructive Torque:
2.26 N-M (20 in-lbs. or more)
Lock Nut Destructive Torque (Receptacles):
2.71 N-M (24 in-lbs. or more)
Wire Range (Punchdown Receptacle): 22 to 26 AWG

Wire Range (Punchdown Receptacle): 22 to 26 AWG solid and stranded, limiting Outside Diameter

1.40 mm (0.055")

Physical

Housing: PBT Polyester, black Contact: Phosphor Bronze (CuSn)

Plating:

Contact Area — 1.27µm (50µ") Gold (Au)

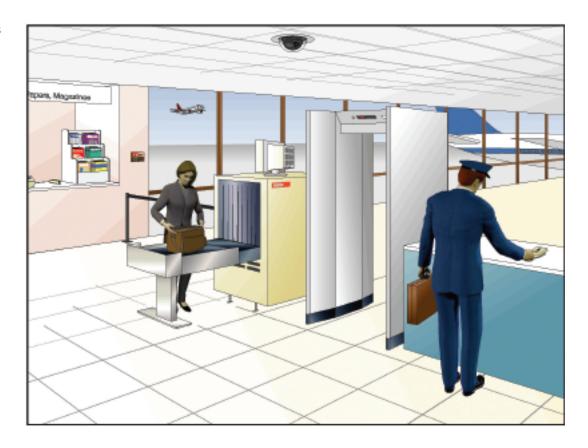
Underplating — Nickel (Ni)
Operating Temperature: -40 to +85°C



RJ-45 EtherNet/IP* Overmolded Cordsets, IDT and PCB Receptacles

84702

- Industrial EnvironmentFood and beverage
 - Automotive
 - Chemical
 - Other continuous and batch processes
- Water Treatment Plants
 - Waste water
 - Municipal drinking water
- **■** Transportation Hubs
 - Airports
 - Bus stations
 - Rail stations



ORDERING INFORMATION

Order No.	Description
84702-0005	Ethernet/IP, RJ-45, PCB Mount Receptacle
84702-0007	Ethernet/IP, RJ-45, PCB Mount Receptacle Jack, Potted Sealed Backend
84702-0006	Ethernet/IP, RJ-45, Punchdown Panel Mount Receptacle Jack
84702-0008	Ethernet/IP, RJ-45, Punchdown Panel Mount Receptacle Jack, Potted Sealed Backend
0.1.4	D 1.1
Order No.	Description
84702-1020	Ethernet/IP Plug, RJ-45 Double Ended Bayonet Style Cable, 6.10m (20')
84702-1020 84702-1XXX**	Ethernet/IP Plug, RJ-45 Double Ended Bayonet Style Cable, 6.10m (20') Ethernet/IP Plug, RJ-45 Double Ended Bayonet Style Cable
T	

^{**}Last three digits represent the length of cable in feet. For example: 84702-1020 is a 20' cordset.

Americas Headquarters Lisle, Illinois 60532 U.S.A. 1-800-78MOLEX amerinfo@molex.com Far East North Headquarters Yamato, Kanagawa, Japan 81-462-65-2324 feninfo@molex.com Far East South Headquarters Jurong, Singapore 65-6-268-6868 fesinfo@molex.com European Headquarters Munich, Germany 49-89-413092-0 eurinfo@molex.com Corporate Headquarters 2222 Wellington Ct. Lisle, IL 60532 U.S.A. 630-969-4550 Fax:630-969-1352