IndustrialNet™ M12 D-Code to RJ45 Panel Mount Adapter

specifications

EtherNet/IP™

M12 D-code to RJ45 industrial adapters shall be applicable for use in manufacturing as well as other industrial environments and shall meet or exceed the requirements of the ANSI/TIA-568-C.2 Category 5e, ISO 11801 Class D, IEC 61076-2-101 and ODVA Ethernet/IP standards. The adapter housing shall be constructed of Nylon GF. The adapter shall incorporate an ingress protection rating of IP20 on the RJ45 side and IP68 on the M12 side when mated. The adapter shall offer an extended temperature range as required for more demanding applications. The adapter shall be easily field installable without any special tools.

technical information

Electrical/mechanical performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D at swept frequencies up to 100MHz. Meets the requirements of IEC 61076-2-101 and the ODVA Ethernet/IP standard
IEC compliance:	Meets IEC 61076-2-101
IP compliance:	Rated IP20 (RJ45), IP65 (housing), and IP68 (M12 side)
RoHS compliancy status:	Compliant
Temperature rating:	Operating -25°C to 80°C (-13°F to 176°F) Storage -40°C to 80°C (-40°F to 176°F)
Packaging:	1 unit per PE bag, 10 units per carton

key features and benefits

Robust construction	Nylon GF housing with full 360° shielding for secure data transmission in high noise (EMI/RFI) environments, exceed the requirements of IEC 61076-2-101 for vibration, mating cycles, and insertion/withdrawal force
Field attachable	Can be assembled without any special tools
Extended temperature range	Operating -25°C to 80°C (-13°F to 176°F)

applications

IndustrialNet™ adapters provide an ideal solution to support Industrial Ethernet from the Local Area Network (LAN) based support offices to the processing devices on the plant floor. The M12 D-code to RJ45 industrial adapter is a key component to an overall Industrial Ethernet application. The adapter will be the interface that protects the integrity of the Ethernet data transfer from the switch or PLC out to the devices or up to the horizontal plant backbone. The adapter is of a nylon GF construction and fully shielded for use in high noise (EMI/RFI) environments. The adapter is easily field installable for on-site installation and also offers an extended temperature range -25°C to 80°C (-13°F to 176°F) for use in more demanding applications such as manufacturing facilities where temperature extremes are the norm.

IndustrialNet™ M12 D-Code to RJ45 Panel Mount Adapter

Panel mount adapter: ICAM12DRJS

IndustrialNet™ Category 5e SF/UTP Copper Cable

CM 4-pair: ISFCH5C04A*-XG

IndustrialNet™ Category 5e F/UTP Copper Cable

CM 4-pair/ color Black: IFC5C04BBL-CEG

IndustrialNet™ Category 5e U/UTP Copper Cable

CM 4-pair/ color Black: IUC5C04ABL-CEG

IndustrialNet™ Category 6 F/UTP Copper Cable

CM 4-pair/ color Black: IFC6C04BBL-CEG

IndustrialNet™ Category 6 U/UTP Copper Cable

CM 4-pair/ color Black: IUC6C04ABL-CEG

IndustrialNet™ Category 6/5e RJ45 Field Terminable Plug

Field terminable plug: ISPS688FA

IndustrialNet™ M12 D-Code Field Terminable Plug

Field terminable plug: ISPS5E44M

IndustrialNet™ Category 5e Shielded 600 V-Rated Patch Cords

CM/CMX: **ISTPHCH1MTL

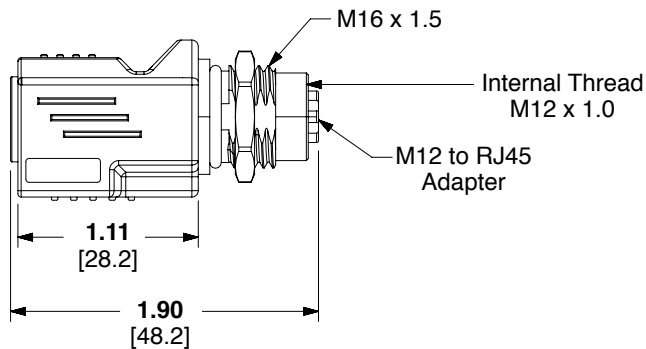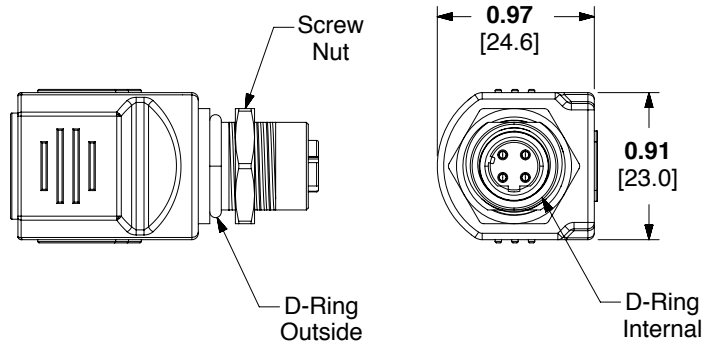**Mini-Com® Modular Patch Panel**

8-port: CDPP8RG

DIN Rail Adapter
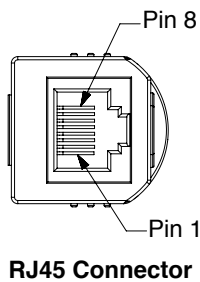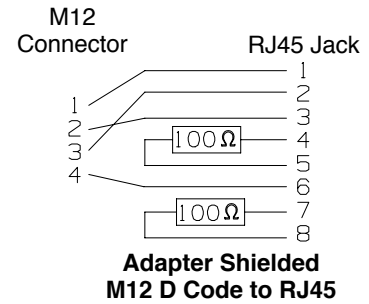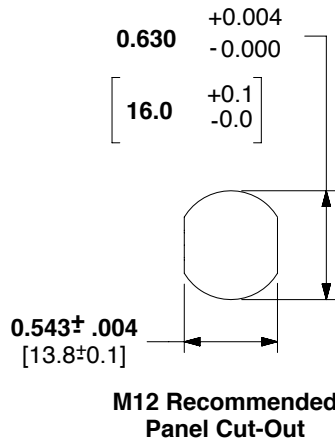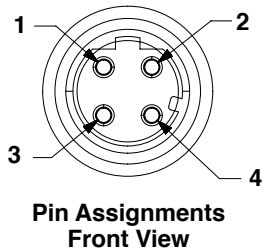
1-port: CADIN1IW***

*To designate color, add suffix TL (Teal), BL (Black), RD (Red), BU (Blue), GY (Gray), or YL (Yellow).

**For other lengths, change the length designation (1M) of the part number to the desired length (0.3M, 0.6M, 2M, 3M, 5M, or 10M); to designate color, replace TL (Teal) suffix with BL (Black), RD (Red), or YL (Yellow). For example, the part number of a 2-meter teal patch cord is ISTPHCH2MTL.

***For standard colors other than Off White, replace IW in part number with BL (Black), EI (Electric Ivory), IG (International Gray), or WH (White).

IndustrialNet™ M12 D-Code to RJ45 Panel Mount Adapter

1 **2**

3 **4**

**Pin Assignments
Front View**

0.630 +0.004 / -0.000

16.0 +0.1 / -0.0

0.543 ± .004
[13.8±0.1]

**M12 Recommended
Panel Cut-Out**

M12
Connector   RJ45 Jack

1
2
3
100Ω
4
5
6
100Ω
7
8

1
2
3
4

**Adapter Shielded
M12 D Code to RJ45**

Pin 8

Pin 1

RJ45 Connector

Screw
Nut

D-Ring
Outside

0.97
[24.6]

0.91
[23.0]

D-Ring
Internal

M16 x 1.5

Internal Thread
M12 x 1.0

M12 to RJ45
Adapter

1.11
[28.2]

1.90
[48.2]

Dimensions are in inches. [Dimensions in brackets are metric].

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com/ia

iai@panduit.com

PANDUIT®

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ethernet Cables / Networking Cables *category:*

Click to view products by Panduit *manufacturer:*

Other Similar products are found below :

73-6670-7 73-6680-15 73-7797-25 MCJB2-10P6Q7-120 84909-0204 1200700174 1200860368 E16A06002M030 E200102-009-S1 AX105346-EW MT14-187L 17-103530 ERWPAB3002M005 190-038045-01 NK5EPC18RDY NK5EPC18VLY NK5EPC18YLY NK5EPC1GRY NK5EPC4Y NK5EPC6YLY NK5EPC8BLY NK5EPC9YLY 1969343-6 C501100010 C501106002 C501106007 C501106015 C501106025 C601102010 C601104010 C601106007 C601106015 2142758-2 2168427-2 CAT1106007 21949-1 2J1866A RJF SFTP 5E 0500 AX100351 MN14CEC/ST C501100015 C501106004 C501106010 C5F1108007 C601104004 C601106004 CA21106004 CA21106010 CA21106015 CA21109007