IndustrialNet™ M12 X-Code to RJ45 Panel Mount Adapters

specifications

M12 X-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 6A, ISO 11801 Class E$_A$, IEC 61076-2-109 and ODVA Ethernet/IP^, PROFINET, and CC-Link standards. The adapter is available in straight and angled versions. The adapter shall incorporate an ingress protection rating of IP20 on the RJ45 side and IP67 on the M12 side when mated.

technical information

Electrical/mechanical performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E$_A$ at swept frequencies up to 500 MHz; meets the requirements of the ODVA EtherNet/IP^, PROFINET and CC-Link standards
IEC compliance:	Meets IEC 61076-2-109
IP compliance:	Rated IP20 (RJ45) and IP67 (M12 side)
UL compliance:	Compliant
RoHS compliancy status:	Compliant
Temperature rating:	Operating -25°C to 80°C (-13°F to 176°F) Storage -40°C to 85°C (-40°F to 185°F)
Configuration:	Connector 1 - RJ45 Jack, Connector 2 - M12 Jack
Cable Access:	Angled/Straight
Packaging:	1 unit per polyethylene bag, 15 units per carton

key features and benefits

PA UL V0 housing with 360° shielding:	Ensures secure data transmission in high noise (EMI/RFI) environments for optimal performance
Field attachable:	Can be terminated without any special tools for fast installation
Suitable for harsh environments:	Withstands light wash down situations and operates in an extended temperature range for use in demanding applications

applications

The IndustrialNet™ M12 X-Code to RJ45 Panel Mount Adapter connects the M12 industrial Ethernet with the RJ45 network. A key component to the overall industrial Ethernet application, the adapter is 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 fully shielded for use in high noise (EMI/RFI) environments and is appropriate for data transmissions up to 10 Gb/s per IEEE802.3an.

Side panel product listing

IndustrialNet™ M12 X-Code to RJ45 Panel Mount Adapters

Straight adapter:	ICAM12XRJS
90° angled adapter:	ICAM12X90RJS

IndustrialNet™ Category 6 S/FTP Copper Cable – Flame Retardant, Halogen-Free

4-pair, color yellow:	ISX6004AYL-LED
4-pair, color red:	ISX6004ARD-LED

IndustrialNet™ Category 5e SF/UTP Copper Cable – TPE Jacket

CM 4-pair, color teal:	ISFCH5C04ATL-XG

IndustrialNet™ Category 6A/6/5e RJ45 Field Terminable Plug

Field terminable plug:	ISPS688FA

IndustrialNet™ M12 X-Code Field Terminable Plug

Field terminable plug:	ISPS6A88MFA

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

CM/CMX, color Teal:	ISTPHCH1MTL*

IndustrialNet™ DIN Rail Mount Patch Panel

8-port:	CDPP8RG

Mini-Com® DIN Rail Mount Adapter

1-port:	CADIN1IG**

* 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.
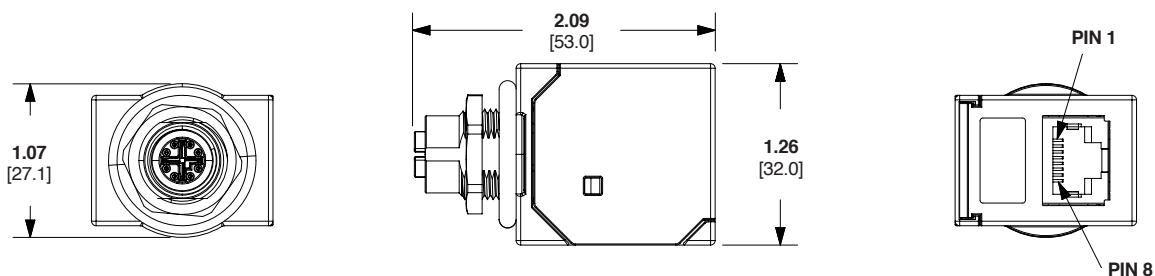
** For standard colors other than International Gray, replace IG in part number with BL (Black), EI (Electric Ivory), IW (Off White), or WH (White).
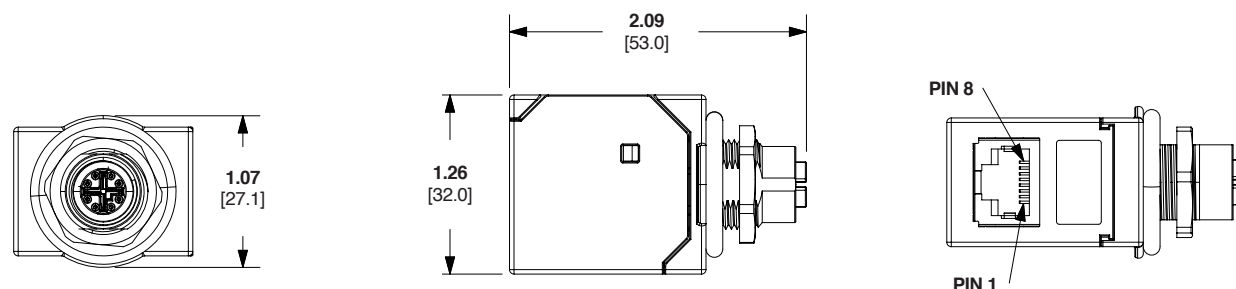
^EtherNet/IP is a trademark of ODVA.

Dimensions

ICAM12XRJS - Industrial M12 X-Code, 8 pin Female to RJ45 Cat 6A Jack Straight

1.07
[27.1]

2.09
[53.0]

1.26
[32.0]

PIN 1

PIN 8

ICAM12X90RJS - Industrial M12 X-Code, 8 pin Female to RJ45 Cat 6A Jack 90-Degree

1.07
[27.1]

2.09
[53.0]

1.26
[32.0]

PIN 8

PIN 1

Pin Assignments and Recommended M12 Panel Cut-Out

4
5
3
6
2
7
1
8

**Pin Assignments
Front View**

0.630 + 0.004
       - 0.000

16.00 + 0.10
       - 0.000

0.543 + 0.004
       - 0.000

13.8 + 0.1
      - 0.000

**M12 Recommended
Panel Cut-out**

M12		RJ45
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
S		S

**Connector
Diagram**
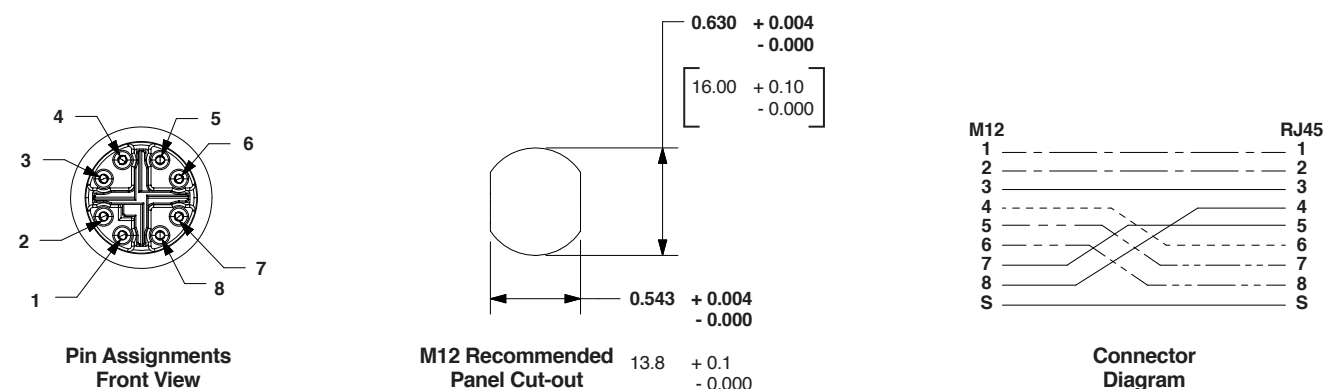
Dimensions are in inches. [Dimensions in brackets are metric.]

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

Visit us at www.panduit.com/ia

iai@panduit.com

PANDUIT®