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IndustrialNet™ M12 X-Code to RJ45 Panel Mount Adapters

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

IndustrialNet 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-568.2-D 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-568.2-D 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
Configuration:	Connector 1 - RJ45 Jack, Connector 2 - M12 Jack
Cable access:	Angled/Straight
Packaging:	1 unit per polyethylene bag, 15 units per carton
Temperature rating:	Operating: -13°F to 176°F (-25°C to 80°C) Storage: -40°F to 185°F (-40°C to 85°C)

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.

IndustrialNet M12 X-Code to RJ45 Panel Mount Adapters	
Straight adapter:	ICAM12XRJS
90° angled adapter:	ICAM12X90RJS
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:	ISPS6A88MFA
IndustrialNet Category 5e Shielded 600 V-Rated Patch Cords	
CM/CMX, color Teal:	ISTPHCH*M**
IndustrialNet DIN Rail Mount Patch Panel	
8-port:	CDPP8RG
Mini-Com® DIN Rail Mount Adapter	
1-port:	CADIN1***

*Meter lengths: 0.3, 0.6, 1, 2, 3, 5, or 10 meters
**Colors: TL (Teal), BL (Black), RD (Red), or YL (Yellow)
***Colors: IG (International Gray), BL (Black), EI (Electric Ivory), IW (Off White), or WH (White)
^EtherNet/IP is a trademark of ODVA

TAA Compliant

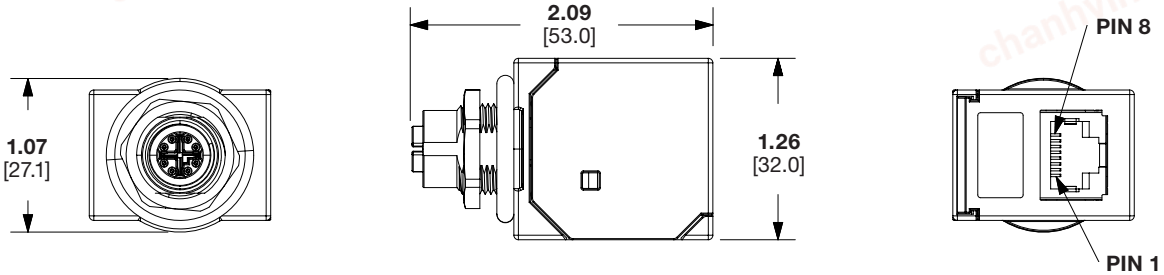
All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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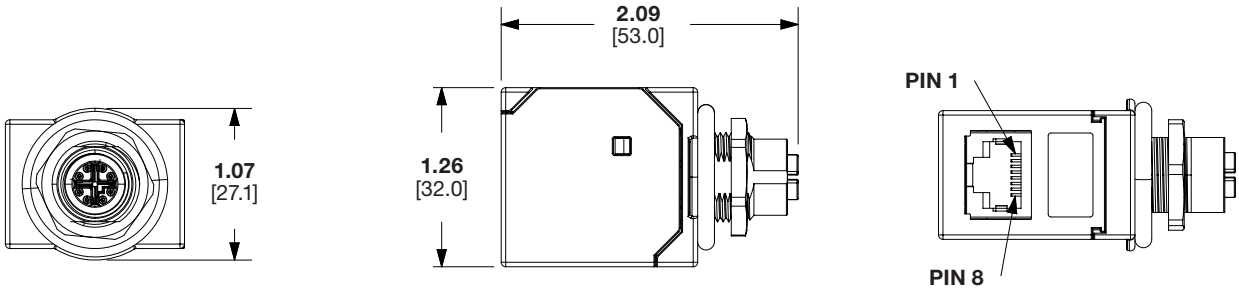
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ENGINEERING DRAWINGS

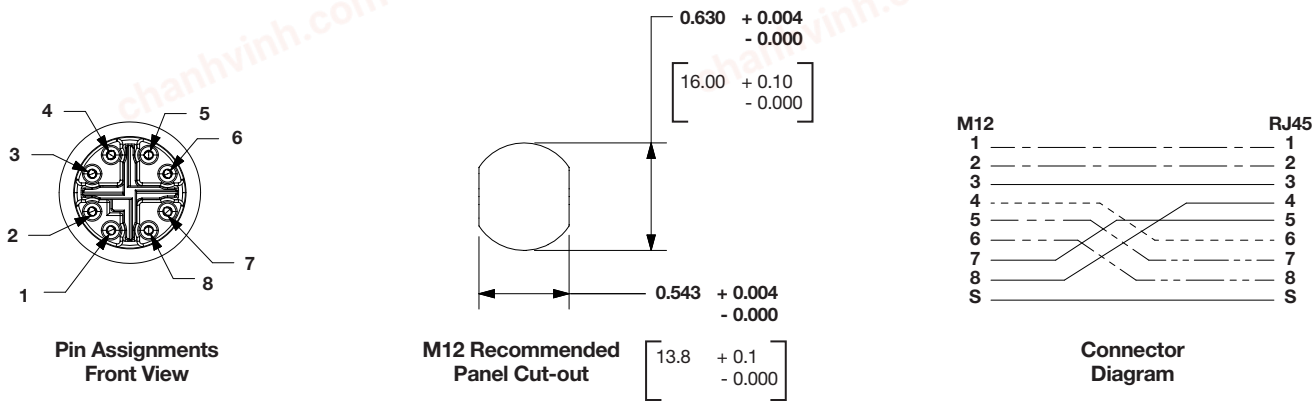
ICAM12XRJS - Industrial M12 X-Code, 8 pin Female to RJ45 Cat 6A Jack Straight



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



Pin Assignments and Recommended M12 Panel Cut-Out



Pin Assignments Front View

M12 Recommended Panel Cut-out

Connector Diagram

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

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