

# IndustrialNet™ M12 D-Code Category 5e Overmolded Cordsets

## specifications

Industrial Ethernet cordsets shall be constructed of Category 5e, industrial grade, stranded, twisted pair cable for UTP and STP installations. Each cordset shall be 600V AWM rated for UL508A control cabinets, and on-machine use. The jacket shall be flame retardant (CMX/CM) for industrial Ethernet applications. Each cordset shall be pre-terminated and overmolded to include Category 5e M12 or RJ45 industrial plugs on each end which are wired according to the T568B and IEC 60603-7-41 standards.



## technical information

<b>Category 5e/Class D channel and component performance:</b>	Exceeds channel and component requirements of ANSI/TIA-568.2-D Category 5e and ISO11801 Class D standards at swept frequencies of 1 to 100 MHz
<b>FCC and ANSI compliance:</b>	Meets ANSI/TIA-1096-A; contacts plated with 30 micro-inches of gold for superior performance
<b>IEC compliance:</b>	<ul style="list-style-type: none"> <li>ANSI/TIA 568.2-D: Category 5e</li> <li>ISO 11801 Class D standards at swept frequencies up to 100 MHz</li> <li>ANSI/TIA-1005-A: Telecommunications Infrastructure Standard for Industrial Premises</li> <li>IEC 61076-2-101 Connectors for Electronic Equipment: Circular connectors – Detail specification for connectors with M 12 x 1 screw-locking, for data transmission frequencies up to 100 MHz</li> </ul>
<b>IP compliance:</b>	Rated IP67 for dust protection and temporary liquid immersion. 35 million plus flex cycles
<b>NEMA/UL compliance:</b>	NEMA, 1, 3, 4, 6, 6P and IEC IP67, UL Type 12
<b>PoE compliance:</b>	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
<b>RoHS compliance:</b>	Compliant
<b>Temperature rating:</b>	-40° to +75°C (-40° to +167°F)
<b>Materials:</b>	Constructed of 24 AWG UTP or STP stranded industrial grade TPU cable and IP67 overmolded connectors; Coupling nut: nickel plated over copper-zinc alloy; Contact pins: gold plated over copper-zinc alloy

## key features and benefits

<b>IP/NEMA/UL/CE rated</b>	Withstands light wash down and temporary submerged conditions without loss of performance to ensure reliability in harsh factory environments
<b>Robust 600V-rated construction</b>	Allows for patch runs between automation devices in industrial environments; rated for 600 V panel or on-machine applications when the space is shared with high voltage power cables; plug contact plated with 30 micro-inches of gold
<b>Ergonomic design</b>	Offers ease of handling while installing and in close proximity to other connectors
<b>100% Performance tested</b>	Factory testing provides confidence that each patch cord delivers specified performance
<b>TPU jacket</b>	Protects cable against weld splatter, chemicals and abrasions; suitable for high-flex applications for increased reliability
<b>Factory terminated</b>	Helps reduce termination errors in the field; assures reliability and saves time
<b>Extended temperature range</b>	Provides durable connection in extreme conditions to increase system reliability
<b>Robust construction</b>	Rated to 35 million flex cycles, providing durability and reliability
<b>Optional RJ45 connector</b>	Offers industry standard solution familiar to end users to speed deployment

## applications

IndustrialNet™ M12 D-Code Category 5e Overmolded Cordsets provide fast, reliable connections from machines and devices to switches and enclosures on the plant floor for Ethernet, PROFINET, Modbus and EtherCAT. The cordsets are rated to IP67, NEMA 1, 3, 4, 6, 6P, UL and M.I.C.E., ensuring high performance

and longevity under harsh environmental conditions. In mated conditions, these cordsets can withstand high temperature and high vibration commonly found in harsh industrial applications such as automotive, food and beverage, oil and gas, transportation and mining.

### IndustrialNet™ M12 D-Code Category 5e Overmolded Cordsets

<b>M12 male to male D-Code, straight connector, UTP, teal:</b>	ICD11T2NTL*M
<b>M12 male to male D-Code, straight connector, STP, teal:</b>	ICD11TINTL*M
<b>M12 male D-Code, straight connector, angled connector, STP, teal:</b>	ICD12T1NTL*M
<b>M12 male D-Code, female D-Code, straight connectors, STP, teal:</b>	ICD13TINTL*M
<b>M12 male D-Code, straight connector, RJ45 plug, STP, teal:</b>	ICD14T1NTL%M
<b>M12 male D-Code, straight connector, STP, teal:</b>	ICD15T1NTL*M
<b>M12 male to male D-Code, angled connector, STP, teal:</b>	ICD22T1NTL*M
<b>M12 male D-Code, angled connector, STP, teal:</b>	ICD25T1NTL*M
<b>M12 male D-Code, female D-Code, angled connectors, STP, teal:</b>	ICD26T1NTL*M
<b>M12 female D-Code, straight connector, STP, teal:</b>	ICD35TINTL*M
<b>M12 bulkhead female D-Code, RJ45 plug, STP, teal:</b>	ICD44T1NTL*M
<b>M12 bulkhead female D-Code, STP, teal:</b>	ICD45T1NTL0.5M

### Accessories

<b>IndustrialNet™ M12 D-Code female to RJ45 jack panel mount adapter:</b>	ICAM12DRJS
<b>IndustrialNet™ Category 5e M12 D-Code field terminable plug:</b>	ISPS5E44MFA
<b>IndustrialNet™ Category 6A/6/5e shielded RJ45 field terminable plug:</b>	FPS6X88MTG

### IndustrialNet™ Copper Cable

<b>Category 5e, SF/UTP, 24/7 AWG stranded, CM 2-pair:</b>	ISFCH5C02A**-XG
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### IndustrialNet™ 600V Copper Patch Cords

<b>Category 5e, SF/UTP, 600V Patch Cords:</b>	ISTPHCH*M**
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\* To specify length, change the \* to a 0.5,1,2,3,5,10,15,20

% To specify length, change the % to a 1,2,3,4,5,10,15,20

^ To specify length, change ^ to a 1 or 2

\*\* To designate color, add suffix TL (Teal), BL (Black)

# IndustrialNet™ M12 D-Code Category 5e Overmolded Cordsets



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4/2020