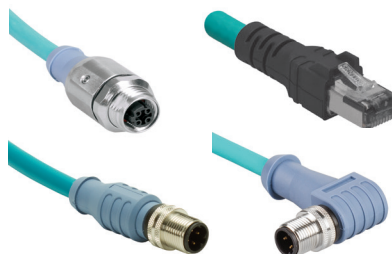# IndustrialNet™ M12 D-Code Category 5e Overmolded Cordsets

PANDUIT®

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 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

Category 5e/ Class D channel and component performance:	Exceeds channel and component requirements of ANSI/TIA-556-C.2 Category 5e and ISO11801 Class D standards at swept frequencies of 1 to 100 MHz
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A; contacts plated with 50 micro-inches of gold for superior performance
IEC compliance:	• ANSI/TIA 568-C.2: Category 5e • ISO 11801 Class D standards at swept frequencies up to 100 MHz • ANSI/TIA-1005-A: Telecommunications Infrastructure Standard for Industrial Premises. • IEC 61076-2-101 Connectors for Electronic Equipment: Circular connectors – Detail specification for connectors with M 12 × 1 screw-locking, for data transmission frequencies up to 100 MHz
IP compliance:	Rated IP67/68 for dust protection and temporary liquid immersion. 10 million plus flex cycles
NEMA/UL compliance:	NEMA, 1, 3 ,4, 6, 6P and IEC IP67/68, UL Type 12
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
RoHS compliance:	Compliant
Temperature rating:	-40° to +75°C (-40° to +167°F)
Materials:	Constructed of 24 AWG UTP or STP stranded industrial grade TPE cable and IP67/68 overmolded connectors; Coupling nut: nickel plated over copper-zinc alloy; Contact pins: gold plated over copper-zinc alloy

key features and benefits

IP/NEMA/UL/CE rated	Withstands light wash down and temporary submerged conditions without loss of performance to ensure reliability in harsh factory environments
TPE jacket	Protects cable against weld splatter, chemicals and abrasions; suitable for high-flex applications for increased reliability
Factory terminated	Helps reduce termination errors in the field; assures reliability and saves time
Extended temperature range	Provides durable connection in extreme conditions to increase system reliability
Robust construction	Rated to 10 million flex cycles, providing durability and reliability
Optional RJ45 connector	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 IP67/68, 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

M12 bulkhead female D-code, STP, teal: ICD45T1NTL0.5M

M12 bulkhead female D-code, RJ45 plug, STP, teal: *ICD44T1NTL1M

M12 male D-code, straight connector, STP, teal: *ICD15T2NTL1M

M12 female D-Code, straight connector, STP, teal: *ICD35T2NTL1M

M12 male D-Code, angled connector, STP, teal: *ICD25T2NTL1M

M12 male to male D-Code, straight connector, UTP, teal: *ICD11T2NTL1M

M12 male to male D-Code, straight connector, STP, teal: *ICD11T1NTL1M

M12 male to male D-Code, angled connector, STP, teal: *ICD22T1NTL1M

M12 male D-Code, straight connector, RJ45 plug, STP, teal: *ICD14T1NTL1M

Accessories

IndustrialNet™ M12 D-Code female to RJ45 jack panel mount adapter: ICAM12DRJS

IndustrialNet™ Category 5e M12 D-Code field terminable plug: ISPS5E44MFA

IndustrialNet™ Copper Cable

Category 5e, SF/UTP, 24/7 AWG stranded, CM 2-pair: ISFCH5C02A**-XG

*For other lengths, change the length designation (1M) of the part number to the desired standard length (.5M, 2M, 3M, 5M, 10M, 15M or 20M).

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

IndustrialNet™ M12 D-Code Category 5e Overmolded Cordsets

ICD45T1NTL0.5M

Twist Tie

D-Code
Female Bulkhead

ICD44T1NTL

Twist Tie

RJ45

D-Code
Female Bulkhead

ICD15T2NTL

Twist Tie

D-Code Male

ICD35T2NTL

Twist Tie

D-Code Female

ICD25T2NTL

Twist Tie

D-Code Male

ICD11T2NTL

Twist Tie

D-Code Male

D-Code Male

ICD11T1NTL

Twist Tie

D-Code Male

D-Code Male

ICD22T1NTL

Twist Tie

D-Code Male

D-Code Male

ICD14T1NTL

Twist Tie

D-Code Male

RJ45

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