

IndustrialNet™ TX6A™ Patch Cords

PANDUIT®

SPECIFICATION SHEET

specifications

Industrial Ethernet patch cords shall be constructed of Category 6A, industrial grade, stranded, twisted pair cable for UTP and STP installations. Each patch cord shall be pre-terminated to include Category 6A industrial plugs on each end which are wired according to the T568B standard. Patch cords shall include either industrial rated IP65/IP67 bulkhead connectors on both ends or an industrial rated IP65/IP67 bulkhead connector on one end with an IP20 rated RJ45 connector at the other end. Tethered caps shall be available on the bulkhead connectors to protect connectivity in un-mated conditions. An IP65/IP67 rating shall be achieved when mated with an IP65/IP67 and NEMA UL Type 12 industrial grade, bayonet style connector.



technical information

Category 6A/Class E_A channel and component performance:	Exceeds channel and component requirements of ANSI/TIA-568-C.2 Category 6A and ISO11801 Class E _A standards at swept frequencies 1 to 500 MHz
IEC compliance:	Patch cords meets IEC 60603-7; housing meets IEC 61076-3-106; Variant 1, conforms to ODVA mechanical specifications
Environmental protection:	Industrial bulkhead connection protects and seals connections against dust and water immersion to ANSI/IEC 60529-2004; vibration, temperature and chemical resistant; shielded version further enhances electromagnetic performance
FCC and ANSI/TIA compliance:	Meets ANSI/TIA-1096-A; contacts plated with 50 microinches of gold for superior performance
IP compliance:	Bulkhead connection rated IP65/IP67 for dust protection and temporary liquid immersion
NEMA/UL compliance:	Bulkhead connection rated UL Type 12 to provide protection against circulating dust, falling dirt, and dripping noncorrosive liquids
RoHS compliancy status:	Compliant
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Materials:	Constructed of 24 AWG STP stranded industrial grade cable, using UTP or STP IndustrialNet™ TX6A™ Modular Plugs and IP65/IP67 housings for UTP or STP patch cords respectively
Temperature rating:	-4°F to 158°F (-20°C to 70°C) during operation

key features and benefits

IP/NEMA/UL rated connection	Withstands light wash down and temporary submerged conditions in harsh factory environments without loss of performance when mated to IP65/IP67 IndustrialNet™ Connectors
Bayonet style interface	Provides quick installation for lowest installed cost
Mated bayonet tactile lock	Ensures positive mating between the plug and connector; rated to 100 mating cycles enabling moves, adds and changes for future upgrades
Robust construction	Includes plug contact plated with 50 microinches of gold to support reliable error-free data transmission
100% performance tested	Provides confidence that each patch cord delivers Category 6A performance at the component level
Caps available for both receptacle and plug	Protect disengaged connectivity from environmental harm preserving connection integrity when plug is mated at a later time to the jack

applications

IndustrialNet™ TX6A™ Patch Cords 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 even under harsh industrial conditions. Innovative design features provide a secure, reliable connection for superior data transmission in work cells where moisture and dust/particles are encountered, in temperature extremes and in applications with vibration.

Industrial bulkhead connection protects and seals against dust and water immersion common in the food and beverage industry where bacterial contamination is present and light wash down is required. High temperature resilience of up to 85°C storage and 70°C operating offers reliable connection in manufacturing facilities such as metal processing, welding, and chemical batch processing where high temperatures are normal. In automotive panel stamping plants and work cells where vibration is a concern, the IndustrialNet™ TX6A™ Patch Cords protect the RJ45 mating.

IndustrialNet™ TX6A™ Patch Cords

UTP with bulkhead connector on both ends: IUTP6X1MBL*

STP with bulkhead connector on both ends: ISTP6X1MBL*

STP with bulkhead connector on one end: ISTP6X1MBLR*

IndustrialNet™ TX6A™ Connectors

Unshielded: IAEBH6X

Shielded: IAEBH6XS

Coupler, Unshielded: IAEBHC6X

Coupler, Shielded: IAEBHC6XS

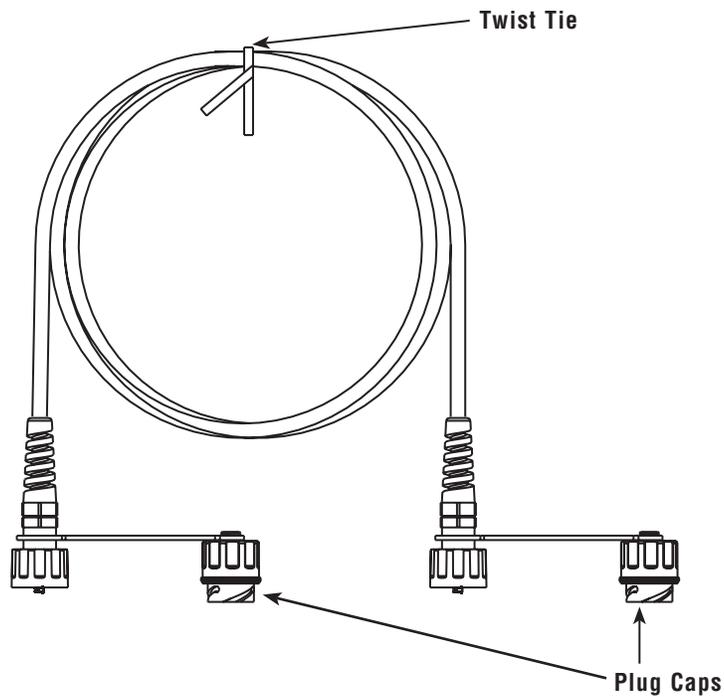
IndustrialNet™ Stainless Steel Faceplates

Single gang: IAEEP1

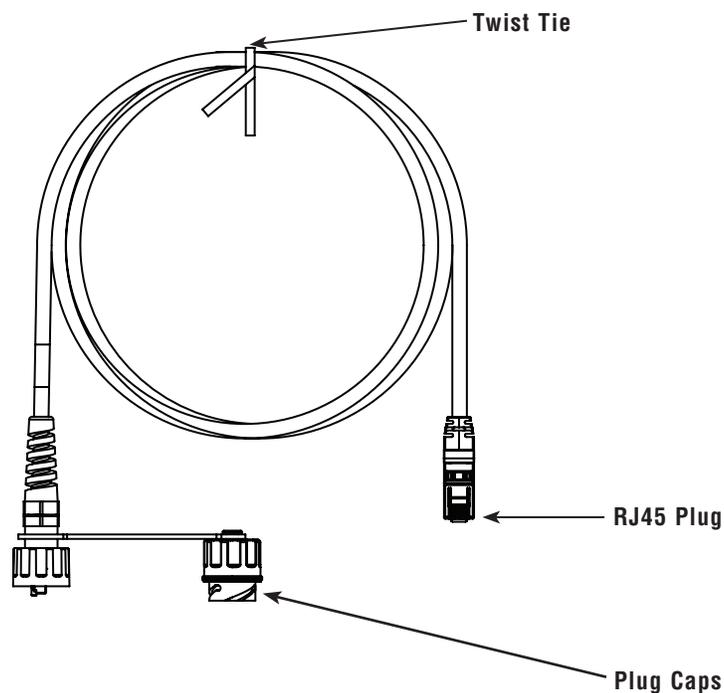
Double gang: IAEEP2-2G

*For lengths 2, 3, 5 and 10 meters, change the length designation in the part number to the desired length. For example, the part number for an STP patch cord with industrial bulkhead connectors on both ends in 5 meter length is ISTP6X5MBL.

IP67-IP67 with Caps



IP67 with Cap – IP20 without Cap



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