SPECIFICATIONS

Industrial patch cords shall be constructed of Category 5e, industrial grade, 24 AWG stranded, twisted 4-pair shielded SF/UTP cable with a flame retardant (CM) thermoplastic elastomer (TPE) jacket. Patch cord cable shall be offered in multiple colors and lengths for design flexibility. Each patch cord shall be pre-terminated to include Category 5e RJ45 shielded modular plugs on each end, with a black strain relief boot, and wired according to the T568A standard. Each patch cord is designed to support high-flex applications and is rated for 600 V panel or on-machine applications when the space is shared with high voltage power cables.

TECHNICAL INFORMATION

Electrical/mechanical performance:	Exceeds channel and component requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards at swept frequencies up to 100MHz; meets ODVA Ethernet/IP electrical and mechanical performance requirements
FCC and ANSI compliance:	Meets all applicable ANSI/TIA-968-A requirements; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
c(UL)us compliance:	UL 1863 approved
IP compliance:	Rated IP20
Other standard compliances:	UL AWM Style 2463 (80°C 600 V) Flex Life Test: 1 million cycles at 10x cable diameter; 10 million cycles at 20x cable diameter Torsion Life Test: 3 million cycles, 360
RoHS compliance:	Compliant
Wiring scheme:	T568A
Flame rating:	Meets IEC 60332-1, IEC 60754-1, IEC 61034-2
Cable diameter:	0.285 in. (7.2mm) nominal
Operating temperature:	-4°F-158°F (-20°C-70°C)
Storage temperature:	-40°F-158°F (-40°C-70°C)
Flame rating:	CM (UL1685)

KEY FEATURES AND BENEFITS

100% Performance tested for wire map, NEXT, and return loss:	Confidence that each patch cord delivers specified performance
Flexible stranded cable:	24 AWG stranded copper cable with a nominal diameter of 0.285 in. (7.2mm) allows for high density applications and superior panel cable management
Center de-embedded plug:	Performs in center of ANSI/TIA-568-C.2 component range, ensuring interoperability and superior performance
Integral pair manager:	Optimizes performance and consistency by reducing untwist at plug
Identification provides:	Identification of performance level, length, and quality control number for future traceability

IndustrialNet Category 5e Shielded 600 V-Rated Patch Cords

CM/CMX:	ISTPHCH*M**

IndustrialNet Category 5e SF/UTP Copper Cable and Accessories

2-pair:	ISFCH5C02A***-XG
4-pair:	ISFCH5C04A***-XG

Category 6A RJ45 Field Terminable Plug

Field terminable plug:	ISPS5E44MFA

IndustrialNet M12 D-Code to RJ45 Panel Mount Adapter

Panel mount adapter:	ICAM12DRJS

Mini-Com® Modular Patch Panel

8-port:	CDPP8RG

DIN Rail Adapter

1-port:	CADIN1IG

Tools and Accessories

Jack module termination tool:	EGJT-1 or TGJT
Wire snipping tool:	CWST
Wire stripping tool:	CJAST
Clear dust cap:	MDC-C
Block-out device:	PSL-DCJB^^
Phone icons:	CIPIW-C+

*Meter lengths: 1 to 5 meters (every 0.5 meters), 0.3, 0.6, 7 ,10, 15, 20 meters

**Colors: TL (Teal), BU (Blue), BL (Black), GY (Gray), RD (Red), or YL (Yellow)

***Colors: TL (Teal) or BL (Black)

^Colors: IG (International Gray) or BL (Black)

^^Colors other than Red: BU (Blue), BL (Black), GR (green), YL (Yellow), IW (Off White), or IG (International Gray)

+Colors other than Off White: EI (Electric Ivory), IG (International Gray), BU (Blue), BL (Black), RD (Red), GR (green), YL (Yellow), OR (Orange), or VL (Violet)

- C indicates bulk packages with 100 pieces per pack to reduce singe-use plastic

TAA Compliant

All Part Numbers Compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to the United States.
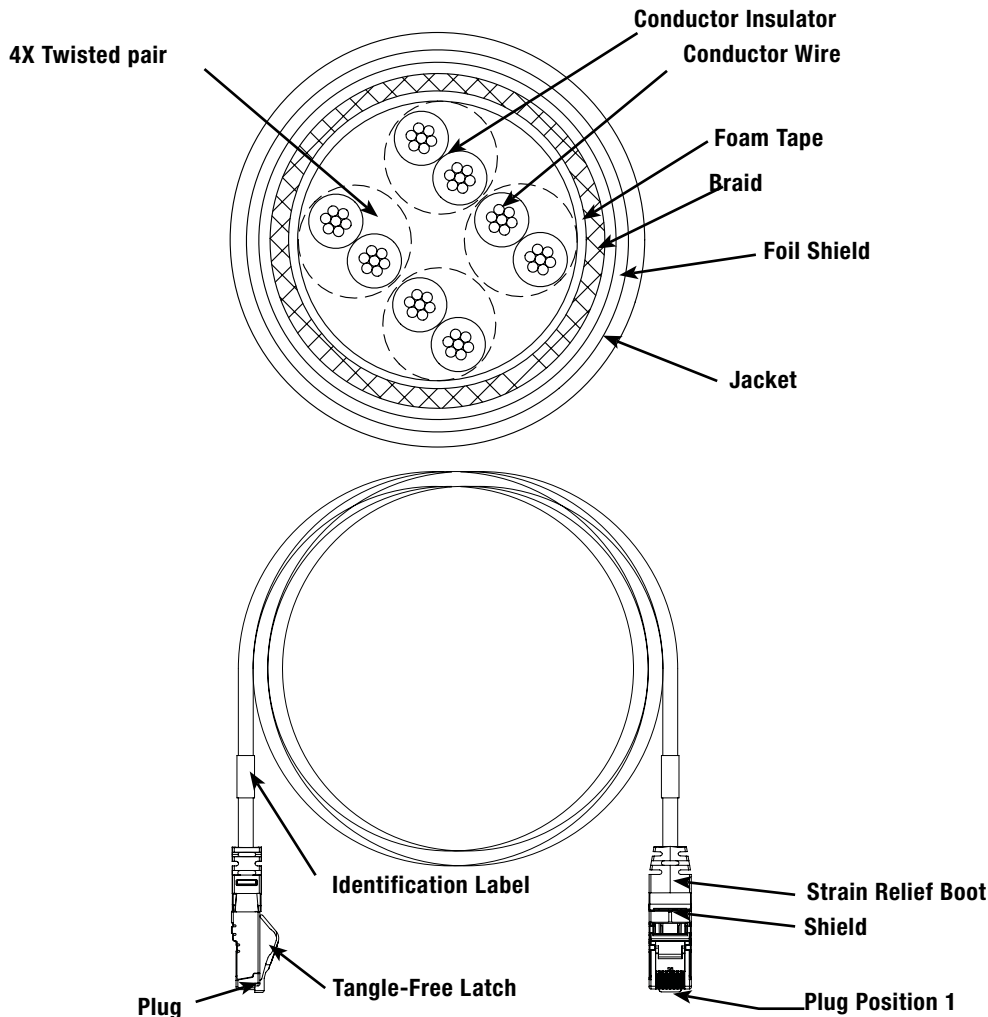
IndustrialNet™ Category 5e Shielded 600 V-Rated Patch Cords

APPLICATIONS

IndustrialNet 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. The industrial Ethernet patch cord is a key component to an overall industrial Ethernet application. The patch cord will be 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 patch cord incorporates a durable oil and UV resistant TPE jacketed cable with modular plugs and is fully shielded for use in high noise (EMI/RFI) environments. Key applications include:

- 10BASE-T (Ethernet)
- 100BASE-T (Fast Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- Industrial Ethernet
- Ethernet/IP
- Control Panel deployments featuring power source voltages
- Uplinks featuring gigabit data transmission from the control panel to the consolidation point
- High flex applications – Robotic, C-Track

ENGINEERING DRAWINGS

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

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or by phone: 800.777.3300