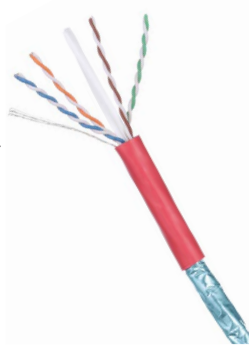


IndustrialNet™ Category 6A Solid Conductor U/UTP Copper Cable

specifications

Category 6A 4-pair U/UTP copper cable shall meet or exceed the ANSI/TIA-568.2-D Category 6A and ODVA EtherNet/IP[^] standards. The solid copper conductors shall be 23 AWG with high density polyethylene (HDPE) insulation. The copper conductors shall be twisted in pairs and wrapped with a foam polypropylene tape to form a core. All pairs shall then be covered with a discontinuous foil shield and an industrially rated PVC jacket which shall be oil and sunlight resistant and flame retardant to CMX/CMR for industrial Ethernet applications. This cable shall be rated for panel or on-machine applications where space is shared with 600V high voltage cables.



technical information

Category 6A component performance up to 100 meters:	Meets or exceeds the requirements of ANSI/TIA-568.2-D Category 6A at swept frequencies up to 500 MHz
Electrical performance:	Conforms to ODVA EtherNet/IP [^] performance requirements
Standard compliances:	UL AWM Style 21047 (75°C 600V), Oil Res and Sun Res, UL 444 Sun Res, UL 1666 CMR
RoHS compliance:	Compliant (EU DIRECTIVE 2011/65/EU)
Conductors/insulators:	Four pairs of 23 AWG solid copper insulated with high density polyethylene (HDPE) insulation
Insulation diameter:	1.02 - 1.27mm (0.040 - 0.050 in.)
Flame rating:	CMX/CMR
Installation tension:	110 N (25 lbf.) maximum
Temperature rating:	-20°C to 75°C (-40°F to 167°F) during transport, installation -40°C to 75°C (-40°F to 167°F) operation temperature
Cable jacket:	Oil and sunlight resistant PVC
Cable diameter:	8.1 - 8.7mm (0.317 - 0.343 in.)
Cable weight:	15kg/305m (34 lbs./1000 ft.)
Packaging:	Packaged 305 meters (1000 ft.) on a reel Package tested to ISTA Procedure 1A

key features and benefits

Oil and sunlight performance rated cable jacket	Delivers enhanced chemical resistance and mechanical performance
EtherNet/IP compliant design	Provides performance levels required to support industrial network applications
600V AWM rated jacket	Approved for control panel or on-machine applications when the space is shared with 600V high voltage power cables, required for UL 508A

applications

IndustrialNet™ Category 6A Solid Conductor U/UTP Copper Cable provides reliability and high performance as an integral component of the end-to-end solution for industrial Ethernet based communications networks. The cable with oil and UV resistant PVC jacket withstands harsh industrial conditions such as oil rigs and other hazardous environments. Rated for panel or on-machine applications when the space is

shared with 600V high voltage power cables, IndustrialNet™ Category 6A Solid Conductor U/UTP Copper Cable is ideal for control panel deployments featuring power source voltages. Cable is suitable for transmission of high performance 10BASE-T, 100BASE-T and 1000BASE-T uplinks featuring up to gigabit data transmission from the control panel to the consolidation point.

IndustrialNet™ Category 6A U/UTP Copper Cable

CMX/CMR 4-pair, Black:	IURH6X04BL-UG
CMX/CMR 4-pair, Red:	IURH6X04RD-UG

IndustrialNet™ Category 6A/6/5e RJ45 Field Terminable Plug

Field terminable plug:	FPS6X88MTG
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IndustrialNet™ M12X-Code Field Terminable Plug

Field terminable plug:	ISPS6A88MFA
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IndustrialNet™ Category 6A Shielded 600V Rated Patch Cords

CM/CMX:	ISTPH6X1MTL*
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IndustrialNet™ M12 D-Code to RJ45 Panel Mount Adapter

Panel mount adapter:	ICAM12DRJS
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IndustrialNet™ DIN Rail Mount Patch Panel

8-port:	CDPP8RG
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Mini-Com® DIN Rail Mount Adapter

1-port:	CADIN1IW**
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*For other lengths, change the length designation (1M) of the part number to the desired length 0.3M, 0.6M, 1.5M, 2M, 2.5M, 3M, 3.5M, 4M, 4.5M, 5M, 7M, 10M, 15M, 20M. To designate color, replace TL (Teal) suffix with BL (Black). For example, the part number for a 2-meter black patch cord is ISTPH6X2MBL.

**For standard colors other than Off White, replace IW in part number with BL (Black), EI (Electric Ivory), IG (International Gray), or WH (White).

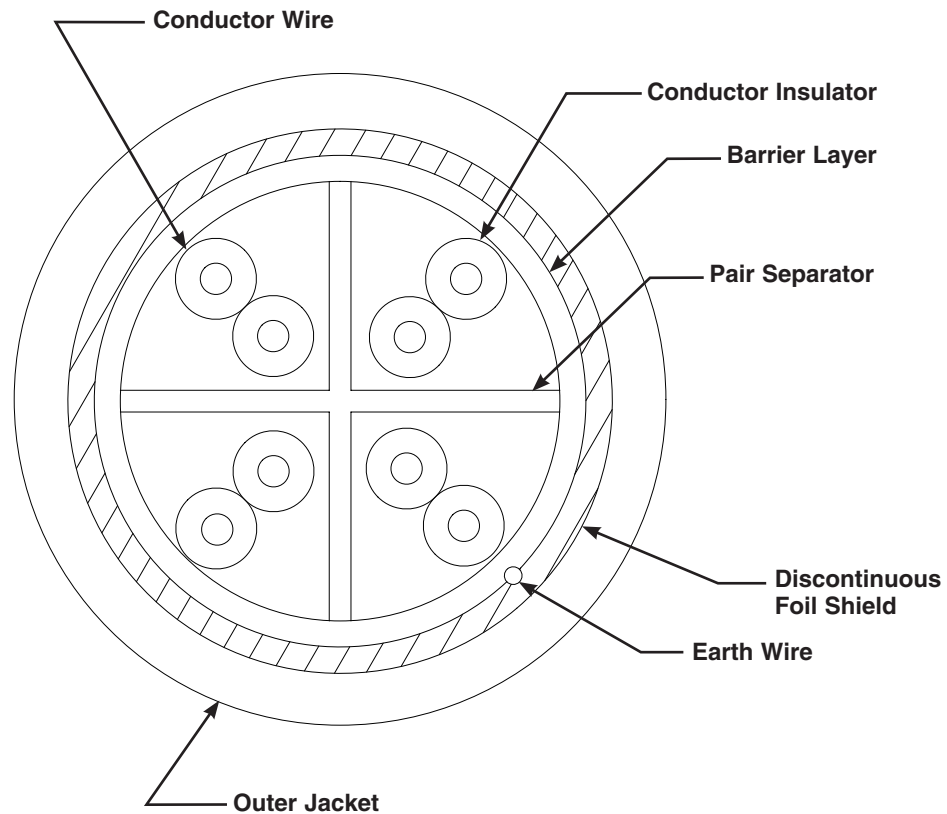
[^]EtherNet/IP is a trademark of ODVA.

IndustrialNet™ Category 6A Solid Conductor U/UTP Copper Cable

additional specifications

Mechanical Test	
Maximum Pulling Force	178N (40 lbf.)
Minimum Bend Radius	64mm (2.5 in.)
Electrical Test	
Nominal Velocity of Propagation (NVP)	70%
Operating Voltage, Maximum	80V

IURH6X04BL Cable Cross-Section



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