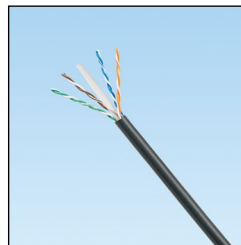


IndustrialNet™ Category 6 U/UTP Copper Cable

specifications

Category 6 U/UTP copper cable shall meet or exceed the IEC 61156-6 and ANSI/TIA-568-C.2 Category 6 standards up to 80 meters. The stranded copper conductors shall be 24/7 AWG with high density polyethylene (HDPE) insulation. The copper conductors shall be twisted in pairs. All pairs shall be separated by a divider and then be surrounded by a PVC jacket. The jacket shall be oil, UV, and abrasion resistant for enhanced chemical resistance and mechanical performance. The jacket shall be flame retardant (CM) for industrial Ethernet applications.



technical information

Electrical performance:	Certified component performance up to 80 meters and exceeds the requirements IEC 61156-6 and ANSI/TIA-568-C.2 Category 6 at swept frequencies up to 250 MHz
Standard compliances:	SUN RES OIL RES II (UL1581 Section 480 and 1200)
Conductors/insulators:	Four pairs of 24/7 AWG stranded copper insulated with high density polyethylene (HDPE) insulation
Insulation diameter:	0.97 – 1.07mm (0.038 – 0.042 in.)
Flame rating:	CM (UL1685)
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	-20°C to 75°C (-4°F to 167°F) during transport, installation, and operation
Cable jacket:	Flame retardant PVC, oil, UV, and abrasion resistant
Cable diameter:	6.8mm (0.268 in.) nominal
Cable weight:	26 kg/305m (58 lbs. /1000 ft.)
Packaging:	Packaged 305 meters (1000 feet) on a reel Package tested to ISTA Procedure 1A

key features and benefits

Third party tested	Cable has been tested by an independent laboratory and complies with the electrical standard requirements of IEC 61156-6 and ANSI/TIA-568-C.2 Category 6 standards
Reliability	Stranded conductors for standard flex applications and ease of installation; cable jacket shall be oil, UV, and abrasion resistant for enhanced chemical resistance and mechanical performance
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Packaged on a reel	Ensures proper performance and provides quick installation

applications

IndustrialNet™ Category 6 U/UTP Copper Cable provides reliability and high performance as an integral component of the end-to-end solution for industrial Ethernet and Ethernet/IP based communications networks. Category 6 performance ensures added performance headroom. The 4-pair high performance cable ensures highest availability in conditions seen in industrial environments. The cable incorporates a durable PVC jacket and is oil, UV, and abrasion resistant.

Key applications include:

- 10BASE-T (Ethernet)
- 100BASE-T (Fast Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- Industrial Ethernet
- Ethernet/IP
- Downlinks from control panel to the machine area
- Uplinks featuring gigabit data transmission from the control panel to the consolidation point

IndustrialNet™ Category 6 U/UTP Copper Cable

**CM 4-pair/
color Black:** IUC6C04ABL-CEG

IndustrialNet™ Category 6/5e RJ45 Field Terminable Plug

**Field
terminable plug:** ISPS688FAS

IndustrialNet™ Category 5e Shielded 600 V-Rated Patch Cords

CM/CMX: *ISTPHCH1MTL

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: CADIN1IW**

*For other lengths, change the length designation (1M) of the part number to the desired length (0.3M, 0.6M, 2M, 3M, 5M, or 10M); to designate color, replace TL (Teal) suffix with BL (Black), RD (Red), or YL (Yellow). For example, the part number for a 2-meter teal patch cord is ISTPHCH2MTL.

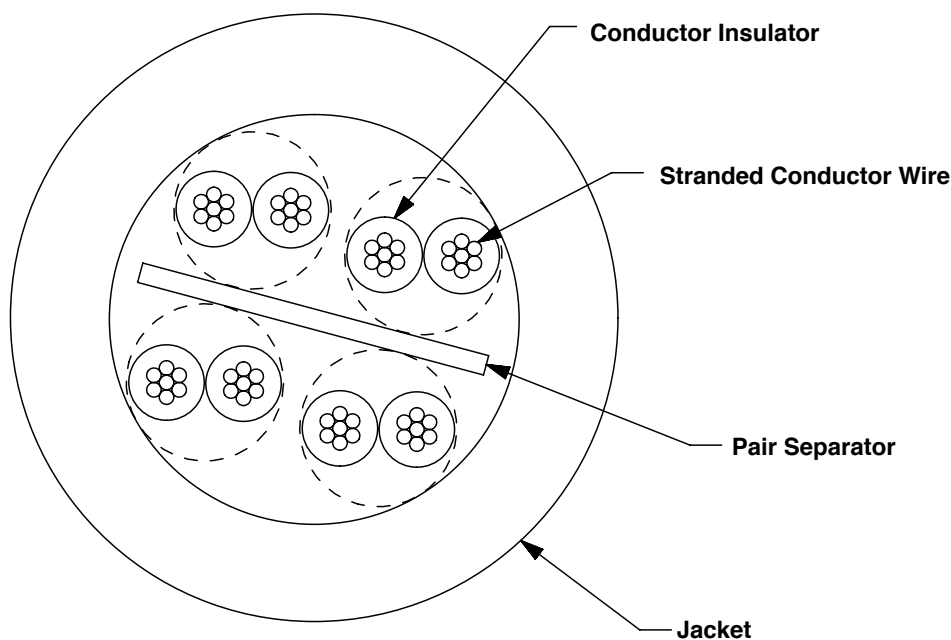
**For standard colors other than Off White, replace IW in part number with BL (Black), EI (Electric Ivory), IG (International Gray), or WH (White).

IndustrialNet™ Category 6 U/UTP Copper Cable

additional specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf.)
Minimum Bend Radius	4x cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	65%
Operating Voltage, Maximum	80V

cable construction



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