

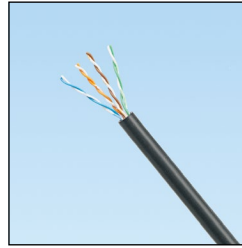
# IndustrialNet™ Category 5e U/UTP Copper Cable

# PANDUIT®

## SPECIFICATION SHEET

### specifications

Category 5e U/UTP copper cable shall meet or exceed the IEC 61156-6 and ANSI/TIA-568-C.2 Category 5e 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 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

<b>Electrical performance:</b>	Certified component performance up to 80 meters and exceeds the requirements IEC 61156-6 and ANSI/TIA-568-C.2 Category 5e at swept frequencies up to 100 MHz
<b>Standard compliances:</b>	SUN RES OIL RES II (UL1581 Section 480 and 1200)
<b>Conductors/insulators:</b>	Four pairs of 24/7 AWG stranded copper insulated with high density polyethylene (HDPE) insulation
<b>Insulation diameter:</b>	0.94 – 1.04mm (0.037 – 0.041 in.)
<b>Flame rating:</b>	CM (UL1685)
<b>Installation tension:</b>	110 N (25 lbf) maximum
<b>Temperature rating:</b>	-20°C to 75°C (-4°F to 167°F) during transport, installation, and operation
<b>Cable jacket:</b>	Flame retardant PVC, oil, UV, and abrasion resistant
<b>Cable diameter:</b>	6.3mm (0.248 in.) nominal
<b>Cable weight:</b>	23 kg/305m (51 lbs./1000 ft.)
<b>Packaging:</b>	Packaged 305 meters (1000 feet) on a reel Package tested to ISTA Procedure 1A

### key features and benefits

<b>Third party tested</b>	Cable has been tested by an independent laboratory and complies with the electrical standard requirements of IEC 61156-6 Category 5e and ANSI/TIA-568-C.2 Category 5e standards
<b>Reliability</b>	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
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Packaged on a reel</b>	Ensures proper performance and provides quick installation

### applications

IndustrialNet™ Category 5e 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. 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 5e U/UTP  
Copper Cable**

**CM 4-pair/  
color Black:** IUC5C04ABL-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.

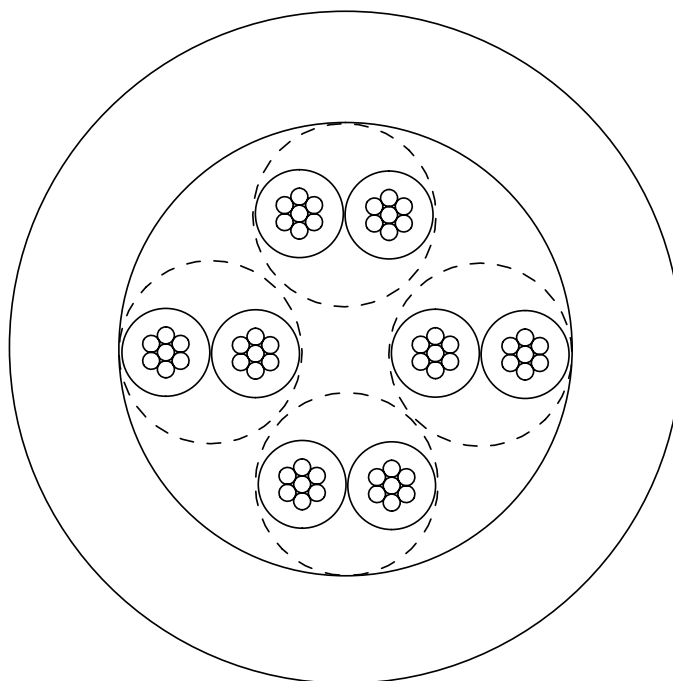
\*\*For standard colors other than Off White, replace IW in part number with BL (Black), EI (Electric Ivory), IG (International Gray), or WH (White).

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## 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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