

# Category 6A UTP Copper Cable

# PANDUIT®

## SPECIFICATION SHEET

## specifications

Category 6A cable shall be constructed of 23 AWG copper conductors, twisted in pairs and separated by an integrated pair separator.



## technical information

<b>Electrical performance:</b>	Certified component and channel performance in a 4-connector configuration up to 100 meters and meets/exceeds the requirements of ISO 11801 Class E <sub>A</sub> and ANSI/TIA-568-C.2 Category 6A standards for swept frequencies up to 500 MHz
<b>Conductors/insulators:</b>	23 AWG solid bare copper wire covered by HDPE and Foam PE insulation
<b>Flame rating:</b>	FEP plenum (CMP): NFPA 262 PE riser (CMR): UL 1666 HDPE (LSZH): IEC 60332-1 PVC (CM): IEC 60332-1 and UL 1685
<b>PoE compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	110 N (25 lbf) maximum
<b>Temperature rating:</b>	-20°C to 75°C (-4°F to 167°F)
<b>Cable jacket:</b>	FEP plenum (CMP): flame retardant PVC PE riser (CMR): flame retardant PVC HDPE (LSZH): low smoke flame retardant PVC PVC (CM): PVC
<b>Cable diameter:</b>	CMP, LSZH, CM: 8.3mm (0.325 in.) CMR: 8.6mm (0.340 in.)
<b>Cable weight:</b>	20.4 kg/305m (45 lbs./1000 ft.)
<b>Packaging:</b>	23.4 kg/305m (52 lbs./1000 ft.) on a reel Packaged tested to ISTA Procedure 1A

## key features and benefits

<b>Extended temperature range</b>	Allows operation in a 75°C ambient environment providing error free performance in high-density
<b>Innovative pair divider</b>	Separates pairs for exceptional cable performance and also improves alien crosstalk by creating spacing between cables when bundled
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Bulk packaging</b>	Supplied 305m (1000 ft.) to a reel

## applications

Category 6A UTP Copper Cable is a component of the TX6A™ 10Gig™ UTP Copper Cabling System when installed according to the above length considerations. Interoperable and backwards compatible, this end-to-end system provides design flexibility to protect network investments well into the future.

With certified performance to the ISO 11801 Class E<sub>A</sub> and ANSI/TIA-568-C.2 Category 6A standards. Usage of the TX6A™ 10Gig™ UTP Copper Cabling System includes:

- Ethernet 10GBASE-T
- Virtual business management applications

### TX6A™ 10Gig™ UTP Copper Cabling System

#### Category 6A UTP Copper Cable

<b>CMP:</b>	PUP6XC04*-UG
<b>CMR:</b>	PUR6XC04*-UG
<b>LSZH:</b>	PUL6XC04*-CEG
<b>CM:</b>	PUC6XC04*-CEG

#### TX6A™ 10Gig™ UTP Jack Module

<b>Jack module:</b>	CJ6X88TG**
<b>Shuttered jack module:</b>	CJD6X88TG**

#### TX6A™ 10Gig™ UTP Patch Cords

<b>CM (meter lengths):</b>	UTP6A^M
<b>CM (foot lengths):</b>	UTP6A^^

#### TX6A-SD™ 10Gig™ UTP Patch Cords

<b>CM (foot lengths):</b>	UTP6ASD^BU
<b>CM (meter lengths):</b>	UTP6ASD^^MBU
<b>LSZH (meter lengths):</b>	UTP6ASDL^M

#### Mini-Com® Angled Modular Patch Panels

<b>24-port, 1 RU:</b>	CPPA24FMWBLY
<b>48-port, 2 RU:</b>	CPPA48FMWBLY
<b>72-port, 2 RU:</b>	CPPLA72WBLY

#### Mini-Com® Flat Modular Patch Panels

<b>24-port, 1 RU:</b>	CPP24FMWBLY
<b>48-port, 1 RU:</b>	CPP48HDWBLY
<b>48-port, 2 RU:</b>	CPP48FMWBLY
<b>72-port, 2 RU:</b>	CP72FMWBLY

#### Cable Prep Tools

<b>Wire snipping tool:</b>	CWST
<b>Wire stripping tool:</b>	CJAST

\*To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

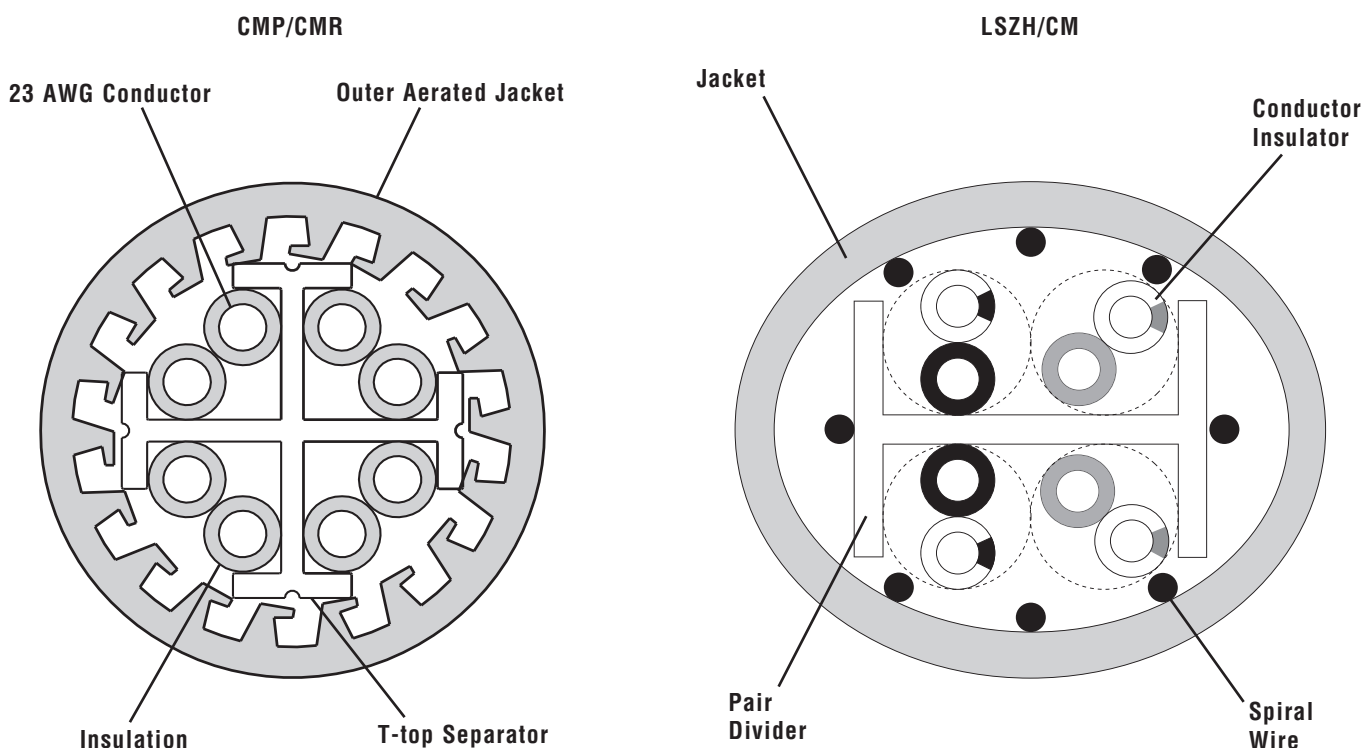
\*\*To designate color, add suffix IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), AW (Arctic White), BL (Black), BL (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).

^For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a Blue, 15-foot patch cord is UTP6A15BU.

^^For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a Blue, 15-meter patch cord is UTP6A15MBU.

# Category 6A UTP Copper Cable

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 x cable diameter
Electrical Test	
DC Resistance	<9.38 ohm per 100m (328 ft.)
DC Resistance Unbalance	<5%
Mutual Capacitance	<5.6 nF per 100m (328 ft.) at 1 KHz
Capacitance Unbalance	<330 pF per 100m (328 ft.) at 1 kHz
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	LSZH/CMR: 65% nominal CMR/CMR: 70% nominal



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