

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

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

key features and benefits

Extended temperature range	Allows operation in a 75°C ambient environment providing error free performance in high-density
Innovative pair divider	Separates pairs for exceptional cable performance and also improves alien crosstalk by creating spacing between cables when bundled
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Bulk packaging	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_A 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

CMP:	PUP6XC04*-UG
CMR:	PUR6XC04*-UG
LSZH:	PUL6XC04*-CEG
CM:	PUC6XC04*-CEG

TX6A™ 10Gig™ UTP Jack Module

Jack module:	CJ6X88TG**
Shuttered jack module:	CJD6X88TG**

TX6A™ 10Gig™ UTP Patch Cords

CM (meter lengths):	UTP6A^M
CM (foot lengths):	UTP6A^^

TX6A-SD™ 10Gig™ UTP Patch Cords

CM (foot lengths):	UTP6ASD^BU
CM (meter lengths):	UTP6ASD^^MBU
LSZH (meter lengths):	UTP6ASDL^M

Mini-Com® Angled Modular Patch Panels

24-port, 1 RU:	CPPA24FMWBLY
48-port, 2 RU:	CPPA48FMWBLY
72-port, 2 RU:	CPPLA72WBLY

Mini-Com® Flat Modular Patch Panels

24-port, 1 RU:	CPP24FMWBLY
48-port, 1 RU:	CPP48HDWBLY
48-port, 2 RU:	CPP48FMWBLY
72-port, 2 RU:	CP72FMWBLY

Cable Prep Tools

Wire snipping tool:	CWST
Wire stripping tool:	CJAST

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

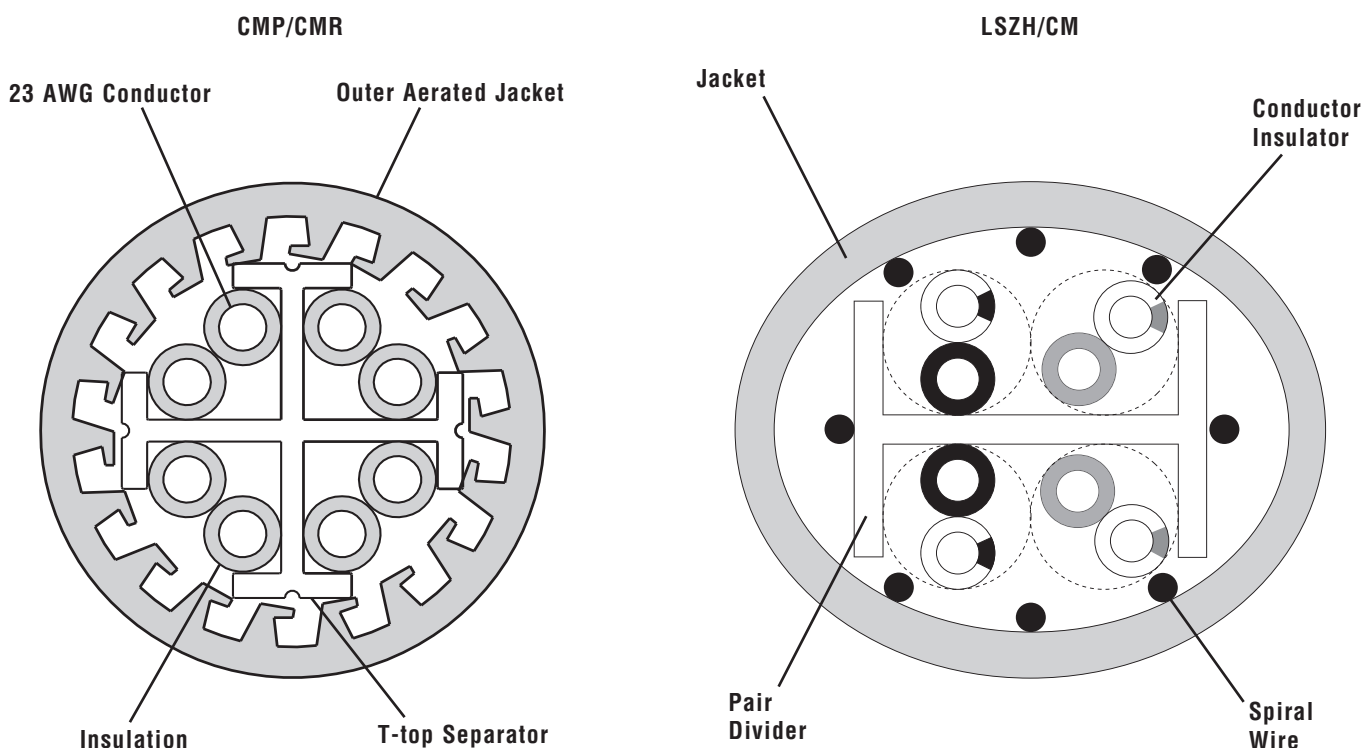
**To designate color, add suffix IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), AW (Arctic White), BL (Black), BL (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).

^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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