

TX6A™ Category 6A U/UTP Copper Cable with Jacketed Interlock Armor

North America

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Two Category 6A cable shall meet the ANSI/TIA-568.2-D Category 6A and IEC 61156-5 component standards. The conductors shall be 23 AWG insulated with foamed PE and HDPE. The copper conductors shall be twisted in pairs, separated by a cross divider with an overall AXT barrier tape and covered by a flame retardant PVC (CMR) jacket in an aluminum interlock armor with an overall flame retardant PVC (CMR) jacket.



TX6A U/UTP Jacketed Interlock Armor Copper Cable

CMR:

PURCA26X04BU-CG

Note: Suggested armor cable cutter - SEATEK RF-170 or similar.

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ANSI/TIA-568.2-D Category 6A standards at swept frequencies up to 500MHz
	Certified component performance up to 100 meters and exceeds the component requirements of the ANSI/TIA-568.2-D Category 6A standards at swept frequencies up to 500MHz.
Conductors/insulators:	23 AWG solid copper insulated with foamed PE and HDPE
Insulation diameter:	0.041 in. - 0.046 in. (1.05mm - 1.19mm)
Flame rating:	EN50575: Euroclass Fca
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3 at, and IEEE 802.3bt for PoE applications
Installation tension:	110N (25 lbf) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
Cable and outer jacket:	Riser (CMR) flame retardant PVC
Cable diameter:	0.283 in. (7.2mm) nominal
Outer jacket diameter:	0.905 in. (23.0mm) nominal
Cable weight:	95 kg/305m (208 lbs./1000 ft.)
Packaging:	1000 ft. (305m) reel Package tested to ISTA procedure 1A

KEY FEATURES AND BENEFITS

Easy payout reel:	Ensures proper performance and provides quick installation
Descending length cable markings:	Print legend contains markings from 1000' to 0'
Robust design:	Jacketed aluminum interlock armor protects against mechanical stresses and EMI/RFI. Offers additional fire protection. Installs faster and easier than EMT conduit and conventional wire.
Tested beyond the Standards:	Cable has been characterized to 650MHz, 150MHz beyond the Standard

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APPLICATIONS

TX6A U/UTP Copper Cable is a component of the TX6A U/UTP Copper Cabling System. This end-to-end system provides 10 Gigabit Ethernet performance with usable bandwidth beyond 500MHz. With certified performance to the ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10GBASE-T (10 Gigabit Ethernet).

ADDITIONAL SPECIFICATIONS

Mechanical Test

Ultimate breaking strength:	> 400 N (90 lbf)
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Minimum bend radius:	8 x cable diameter
	15 x armor diameter

Engineering Test

Nominal velocity of propagation (NVP):	65% nominal
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Operating voltage, maximum:	80 V
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ENGINEERING DRAWING

