

TX5500™ 25-Pair Category 5e UTP Copper Cable

specifications

Category 5e cable shall exceed ANSI/TIA-568-C.2 and IEC 66156-5 Category 5e component standards. The construction shall be 24 AWG with HDPE (CMR) or FEP (CMP) insulation. The copper conductors shall be twisted in pairs with all 25-pairs covered by a flame-retardant PVC (CMR) or low smoke, flame-retardant, fluoropolymer (CMP) jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class D and ANSI/TIA-568-C.2 Category 5e standards at swept frequencies up to 100 MHz Certified component performance up to 100 meters and exceeds the component requirement of IEC 61156-5 and ANSI/TIA-568-C.2 Category 5e component standards at swept frequencies up to 100 MHz
Conductors/insulators:	Riser – 24 AWG solid copper insulated with HDPE Plenum – 24 AWG solid copper insulated with FEP
Flame rating:	Riser – UL 1666 Plenum – NFPA 262
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension:	25 lbf. (110 N) 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 jacket:	Flame-retardant PVC (CMR) or low smoke, flame-retardant, fluoropolymer (CMP)
Cable diameter:	Riser – 0.500 in. (12.7mm) nominal Plenum – 0.455 in. (11.6mm) nominal
Cable weight:	Riser – 132 lbs./1000 ft. (60 kg/395m) Plenum – 142 lbs./1000 ft. (65 kg/305m)
Packaging:	1000 ft. (305m) on a wooden reel Package tested to ISTA procedure 1B

key features and benefits

Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Third party tested	Cable has been tested as part of the TX5500™ Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ISO 11801 and ANSI/TIA-568-C.2
Tested beyond the standards	Cable has been characterized to 250 MHz, 150 MHz above the standard

applications

TX5500™ UTP Copper Cable is a component of the Panduit® TX5500™ Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards, this system is ideal for today's high performance workstation applications.

Usage of the TX5500™ Copper Cabling System includes:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM
- Token Ring 4/16
- Voice and multimedia systems
- High-density voice and data applications for backbone and cross connect installations

TX5500™ Copper Cabling System

TX5500™ Copper Cable

Plenum:	PUP5525*-UY
Riser:	PUR5525*-UY

Mini-Com® TX5e™ UTP Jack Module

Jack Module:	CJ5E88TG**
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TX5e™ UTP Patch Cords

Feet:	UTPCH^Y
Meters:	UTPCH^MY

DP5e™ Angled Patch Panels

24-port, 1 RU:	DPA245E88TGY
48-port, 2 RU:	DPA485E88TGY

DP5e™ Flat Patch Panels

12-port:	DP125E88TGY
24-port, 1 RU:	DP245E88TGY
48-port, 2 RU:	DP485E88TGY

Pan-Punch™ 110 Category 5e Punchdown System

See website (www.panduit.com) or catalog for complete system information.

Cable Prep Tools

Wire

snipping tool: CWST

Wire

stripping tool: CCAST

*Please contact customer service for color availability.

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

^For lengths 1 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 Off White, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue, 15-foot patch cord is UTPCH15BUY.

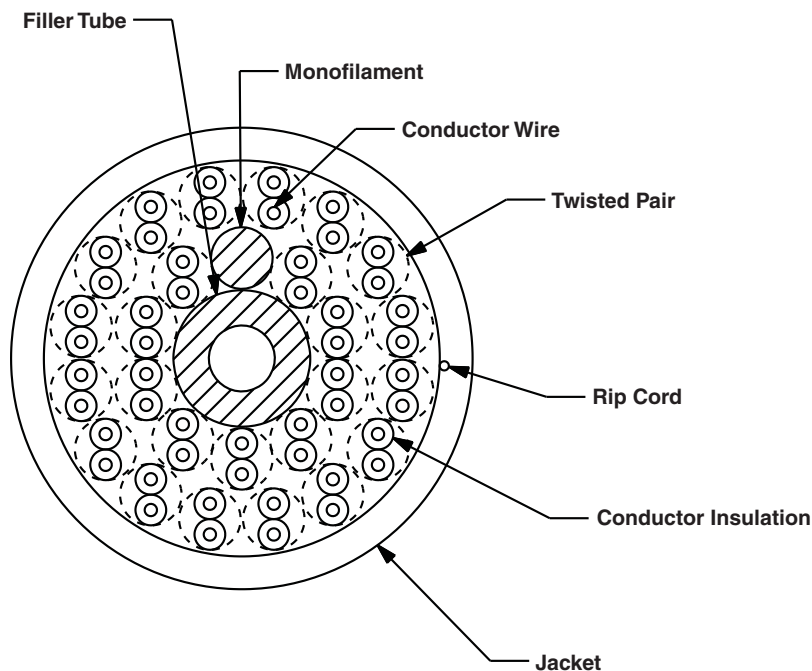
^^For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), GR (Green), YL (Yellow), OR (Orange) or VL (Violet) after the M in the part number. For example, the part number for a 15-meter patch cord with blue boots is UTPCH15MBUY.

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additional specifications

Mechanical Test	
<i>Ultimate Breaking Strength</i>	>90 lbf. (400 N)
<i>Minimum Bend Radius</i>	CMR 5.0 in. (127mm), CMP 6.9 in. (175mm)
Electrical Test	
<i>Nominal Velocity of Propagation (NVP)</i>	72%

cable construction



pair construction

Pair 1	White/Blue	Blue/White	Pair 13	Black/Green	Green/Black
Pair 2	White/Orange	Orange/White	Pair 14	Black/Brown	Brown/Black
Pair 3	White/Green	Green/White	Pair 15	Black/Gray	Gray/Black
Pair 4	White/Brown	Brown/White	Pair 16	Yellow/Blue	Blue/Yellow
Pair 5	White/Gray	Gray/White	Pair 17	Yellow/Orange	Orange/Yellow
Pair 6	Red/Blue	Blue/Red	Pair 18	Yellow/Green	Green/Yellow
Pair 7	Red/Orange	Orange/Red	Pair 19	Yellow/Brown	Brown/Yellow
Pair 8	Red/Green	Green/Red	Pair 20	Yellow/Gray	Gray/Yellow
Pair 9	Red/Brown	Brown/Red	Pair 21	Violet/Blue	Blue/Violet
Pair 10	Red/Gray	Gray/Red	Pair 22	Violet/Orange	Orange/Violet
Pair 11	Black/Blue	Blue/Black	Pair 23	Violet/Green	Green/Violet
Pair 12	Black/Orange	Orange/Black	Pair 24	Violet/Brown	Brown/Violet
			Pair 25	Violet/Gray	Gray/Violet

IMPORTANT NOTE: If installing as (6) 4-pair connections, use sequential pairs (1 – 4, 5 – 8, etc.) to ensure standard performance.

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For more information

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