

# 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

<b>Electrical performance:</b>	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
<b>Conductors/insulators:</b>	Riser – 24 AWG solid copper insulated with HDPE Plenum – 24 AWG solid copper insulated with FEP
<b>Flame rating:</b>	Riser – UL 1666 Plenum – NFPA 262
<b>PoE compliance:</b>	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
<b>Installation tension:</b>	25 lbf. (110 N) maximum
<b>Temperature rating:</b>	32°F to 122°F (0°C to 50°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
<b>Cable jacket:</b>	Flame-retardant PVC (CMR) or low smoke, flame-retardant, fluoropolymer (CMP)
<b>Cable diameter:</b>	Riser – 0.500 in. (12.7mm) nominal Plenum – 0.455 in. (11.6mm) nominal
<b>Cable weight:</b>	Riser – 132 lbs./1000 ft. (60 kg/395m) Plenum – 142 lbs./1000 ft. (65 kg/305m)
<b>Packaging:</b>	1000 ft. (305m) on a wooden reel Package tested to ISTA procedure 1B

## key features and benefits

<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Third party tested</b>	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
<b>Tested beyond the standards</b>	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\*\*

#### 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](http://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.

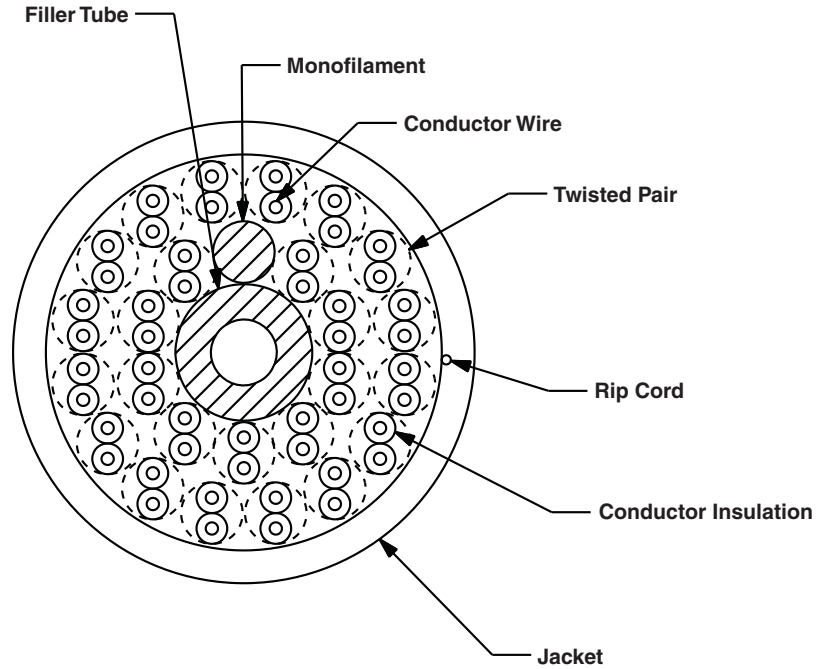
^^For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), GR (Green), YL (Yellow), OR (Orange) or VL (Violet)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

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