

# Customized Cat6 Trunk Cables Datasheet

Perfect for Backbone and Cross-connect Cabling Systems



## Overview

Cat6 customized trunk cables provide a fast and simple way of installing backbone and cross-connect cabling. Ideal for data center or SMB where quick installation and consistent network connection. With fast transmission and excellent signal quality, it ensures peak performance through your LAN. All certified and channel-tested Cat6 cables are bundled together, which cuts down on cable clutter in your cabinet and keeps a better airflow.

## Application

- Easy connection in switches and patch panels.
- Rated for any 1/10GBase-T Ethernet.
- Used for copper backbone and cross-connect cabling.

## Key Features

- Available in jack-jack, plug-plug and plug-jack
- 6, 12 and 24 cable counts can be customized
- Protected by PVC CMR, PVC or LSZH jacket
- Solid or stranded Oxygen-free Copper conductor
- Designed for 10/100/1000Base-T and 10GBase-T
- Pass the Fluke Channel Test
- RoHS, REACH, ISO9001 compliancy status
- Saves time, space and labor costs
- Each trunk assembly receives an individual identification number

## Specifications

### Product Type

<b>Category</b>	CAT6-U6PPX-XM
<b>Reference Standard</b>	ISO/IEC 11801, ANSI/TIA-568-C.2
<b>Shielding Type</b>	Unshielded (UTP)
<b>Termination End</b>	Plug to Plug; Jack to Jack; Plug-Jack
<b>Cable Count</b>	6; 12; 24

### Conductor

<b>Material</b>	Oxygen-free Copper
<b>Type</b>	Plug to Plug: Stranded; Jack to Jack: Solid; Plug to Jack: Stranded
<b>Wire Gauge (AWG)</b>	Plug to Plug: 26 (7/0.16mm); Jack to Jack: 23 (0.565 ± 0.005mm); Plug to Jack: 24 (7/0.2mm)
<b>Conductor Qty.</b>	4 Twisted Pairs

### Insulation

<b>Insulation Material</b>	HDPE
<b>Insulation Diameter (mm)</b>	Plug to Plug: 0.81 ± 0.05; Jack to Jack: 1.02 ± 0.05; Plug to Jack: 0.97 ± 0.05
<b>Core Color</b>	A. Orange, White-Orange; B. Blue, White-Blue; C. Green, White-Green; D. Brown, White-Brown

### Sheath

<b>Material</b>	PVC (Complies RoHS), CMR
<b>Outer O.D. (mm)</b>	Plug to Plug: 5.4 ± 0.5; Jack to Jack: 6.2 ± 0.4; Plug to Jack: 6.1
<b>Thickness (mm)</b>	0.55 ± 0.05
<b>Breakout Length (cm)</b>	25 ± 2
<b>Color</b>	Blue

## Specifications

### Electrical Characteristics (20°C)

<b>Data Rate Support</b>	1/10GBase-T
<b>Standard Bandwidth (MHz)</b>	250
<b>Reference Bandwidth (MHz)</b>	550
<b>1-100MHz, Characteristic Impedance (<math>\Omega</math>)</b>	100 $\pm$ 15
<b>1-100MHz, Delay Skew (ns/100m)</b>	$\leq$ 45
<b>Max. DC Conductor Resistance Unbalance (%)</b>	5.0

### Mechanical Characteristic

<b>Before Aging Tensile Strength (Mpa)</b>	$\geq$ 13.5
<b>Before Aging Elongation (%)</b>	$\geq$ 150
<b>Aging Period (<math>^{\circ}\text{C}\times\text{hrs}</math>)</b>	100 $^{\circ}\text{C}\times$ 24h $\times$ 7d
<b>After Aging Tensile Strength (Mpa)</b>	$\geq$ 12.5
<b>After Aging Elongation (%)</b>	$\geq$ 125
<b>Cold Bend (<math>-20\pm 2^{\circ}\text{C}\times</math>4h)</b>	No Visible Cracks

### Surface Printing

<b>Letter Height (mm)</b>	3.0 $\pm$ 0.3
<b>Color</b>	Black

### Others

<b>Rip Cord</b>	Yes
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