

Customized Cat6a Trunk Cables Datasheet

Perfect for Backbone and Cross-connect Cabling Systems



Overview

Cat6a 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 Cat6a 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	
Category	CAT6A-S6PPX-XM
Reference Standard	ISO/IEC 11801, ANSI/TIA-568-C.2
Termination End	Plug to Plug; Jack to Jack; Plug-Jack
Cable Count	6; 12; 24
Conductor	
Material	Oxygen-free Copper
Type	Plug to Plug: Stranded; Jack to Jack: Solid; Plug to Jack: Solid
Wire Gauge (AWG)	Plug to Plug: 26 (7/0.16mm); Jack to Jack: 23 (0.565 ± 0.005mm); Plug to Jack: 23 (0.565 ± 0.005mm)
Conductor Qty.	4 Twisted Pairs
Insulation	
Insulation Material	HDPE
Insulation Diameter (mm)	Plug to Plug: 1.0 ± 0.05; Jack to Jack: 1.330 ± 0.05; Plug to Jack: 1.330 ± 0.05
Core Color	A. Orange, White-Orange; B. Blue, White-Blue; C. Green, White-Green; D. Brown, White-Brown
Shield	
Shielding Type	Shielded (S/FTP)
Inner Screening Material	AL/Mylar
Outer Screening Material	Tinned Copper 0.10mm
Outer Screening Material Coverage	≥40%

Specifications

Sheath

Material	PVC (Complies RoHS), CMR
Outer O.D. (mm)	Plug to Plug: 6.1 ± 0.3 ; Jack to Jack: 7.5 ± 0.5 ; Plug to Jack: 7.5 ± 0.5
Thickness (mm)	0.55 ± 0.05
Breakout Length (cm)	25 ± 2
Color	Off-White

Electrical Characteristics (20°C)

Data Rate Support	1/10GBase-T
Standard Bandwidth (MHz)	500
1-250MHz, Characteristic Impedance (Ω)	100 ± 15
250-500MHz, Characteristic Impedance (Ω)	100 ± 22
1-500MHz, Delay Skew (ns/100m)	≤ 45
Max. Unbalanced-to-ground Capacitance (pf/100m)	330
Max. DC Conductor Resistance Unbalance (%)	5.0

Mechanical Characteristic

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

Specifications

Surface Printing

Letter Height (mm)

3.0 ± 0.3

Color

Black

Others

Rip Cord

Yes



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