

Customized Patch Cables

Ideal for 1/10GBase-T Copper Cabling Solution



Overview

Cat5e/Cat6/Cat6a network patch cable is the cost-effective solution for data center and SMB applications. Design for computers, hubs, switches, routers, DSL/cable modems and patch panels in Gigabit datacenter applications. With fast transmission and excellent signal quality, it ensures peak performance through your LAN.

Application

- Rated for any 1/10GBase-T Ethernet.
- Perfect for data center and SMB applications.
- Ideal for switches, servers, patch panels, or other equipment.

Key Features

- Protected by PVC jacket
- Available in Cat5e/Cat6/Cat6a cables
- Stranded Oxygen-free Copper
- Designed for 1/10GBase-T Ethernet
- Pass the Fluke Test
- RoHS, CE compliancy status
- 4-pair precision twisted cable
- RJ45 plugs with 50-micron gold-plated connectors
- A variety of lengths and colors for you

Specification

Product Type	Cat5e	Cat6	Cat6a
Product ID	64188	64194	64200
Boot Type	Snagless Booted	Snagless Booted/ Non-booted	Snagless Booted
Termination End	RJ45 Male Plug		
Reference Standard	ISO/IEC 11801, ANSI/TIA-568-C.2		
Conductor	Cat5e	Cat6	Cat6a
Wire Gauge	24AWG (7/0.20mm)	24AWG (7/0.20mm) 28AWG (7/0.12mm)	26AWG (7/0.16mm)
Conductor Type	Stranded		
Conductor Material	Oxygen-free Copper		
Conductor Qty.	4 Twisted Pairs		
Insulation	Cat5e	Cat6	Cat6a
Insulation Material	HDPE	HDPE	FOAM PE
Insulation Diameter	0.97 ± 0.05mm	24AWG: 0.98 ± 0.05mm; 28AWG: 0.58 ± 0.05mm	1.01 ± 0.05mm
Core Color	White-Blue, White-Orange, White-Green, White-Brown		
Sheath	Cat5e	Cat6	Cat6a
Material	PVC CM	PVC CM	PVC CMX
Thickness	0.55 ± 0.05mm	0.55 ± 0.05mm	0.6mm
Outer O.D.	5.5 ± 0.4mm	24AWG: 4.27 ± 0.3mm; 28AWG: 3.80 ± 0.2mm	6.2 ± 0.3mm
Color	Blue/Black/Gray/ White/Yellow/Red/ Green/Purple	Blue/Black/Gray/ White/Yellow/Red/ Green/Purple/Orange	Blue/Black/Gray/ Yellow/Green
Surface	Clean, Frap, Satiation		

Specification

Shield	Cat5e	Cat6	Cat6a
Shielding Type	Unshielded (U/UTP)	Unshielded (U/UTP)	Shielded (S/FTP)
Individual Shield & Material	No	No	AL-Foil
Secondary Overall Shield & Material	No	No	CCAM Braid
Shield Coverage	No	No	≥ 40%

Electrical Characteristics (20°C)	Cat5e	Cat6	Cat6a
Data Rate Support	1000Base-T	1/10GBase-T	10GBase-T
Standard Bandwidth	100	250	500
Reference Bandwidth	350	550	550
Characteristic Impedance	100 ± 15Ω	100 ± 15Ω	100 ± 15Ω
Delay Skew (ns/100m)	≤45	≤45	≤45
Max. Conductor Resistance 20°C (Ω/100m)	9.5	24AWG: 9.38 28AWG: 23.7	14.5
Max. DC Conductor Resistance Unbalance	5%	5%	5%

Mechanical Characteristics	Cat5e	Cat6	Cat6a
Min. Bend Radius	3.85 ± 0.3cm	24AWG: 4.27 ± 0.3cm; 28AWG: 2.70 ± 0.2cm	4.34 ± 0.2cm
Before Aging Tensile Strength	≥13.5Mpa		
Before Aging Elongation	≥150%		
Aging Period (°Cxhrs)	100°C×24h×7d		
After Aging Tensile Strength	≥12.5Mpa		
After Aging Elongation	≥125%		
Cold Bend (-20±2°C×4h)	No Visible Cracks		

Specification

Surface Printing	Cat5e	Cat6	Cat6a
Letter Height		3.0 ± 0.3mm	
Color	Black		
Others	Cat5e	Cat6	Cat6a
Rip Cord	Yes	Yes	No
Drain Wire	No	No	No
Cross Frame	No	24AWG: Yes; 28AWG: No	No



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