

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 (°C×hrs)	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



 <https://www.fs.com>



The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.