

Patch Cord

CAT.6 UTP/FTP Patch Cord

Category 6 patch cords connect hub to patch panel or wall-outlet to workstation and feature high performance stranded cable and enhanced performance modular plugs for superior performance. Category 6 patch cords are offered in a variety of sizes and cable colors to meet individual length and color coding requirements and are 100% performance tested for NEXT, Return Loss, Attenuation, and pair-to-pair ELFEXT.



Complied with or exceeds Standard

- ISO/IEC-11801, 2nd Edition Class E(Category 6)
- IEC 61156-7:2003
- IEEE 802.af, IEEE 802.3at for PoE applications
- LSZH: IEC 60332-1, IEC 60754, IEC 61034
- IEC 61156-5:2002 Category 6
- ANSI/TIA-568-C.2:2009 Category 6
- IEC 60603-7-4
- RoHS Compliant Directive 2011/65/EU

Features & Benefits:

- Meets or exceeds industry standards for NEXT and return loss
- Provides enhanced EMC protection and improved alien crosstalk performance
- UTP and FTP versions available
- Twisted pairs are brightly coloured and distinguished at a glance
- Ultra smooth jacket available in LSZH or PVC and in a variety of colours
- Available in custom lengths



Material Construction & Design:

Construction	UTP	FTP
Conductor Size (AWG)	23(Solid bare copper)	
Conductor Size:	0.57mm±0.022mm (D)	
Dielectric Material	High Density PE	
Insulation Diameter:	1.43 mm	
Rip Cord:	optional	Yes
Drain Wire:	N/A	Tinned Copper 0.41mm
Screening Material:	N/A	Aluminium foil (100% Coverage)
Outer Jacket:	LSZH or PVC	
Outer Jacket Thickness	6.0 mm	6.2 mm

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Electrical, Mechanical & Transmission Characteristics

Frequency Range:	1 - 250 MHz
Impedance:	100 Ω+/-15
Coupling Attenuation:	UTP: 40 dB min @ 30-100 MHz 40-20Log(f/100) @100-300 MHz
	FTP: 55 dB min @ 30-100 MHz 55-20Log(f/100) @100-250 MHz
Max. DC Resistance :	73 Ω/km nom.
Max. Resistance Unbalance:	4 %
Capacitance:	5.6nF/100m max.
Capacitance Unbalance:	3.3 pF/m max.
Velocity of Propagation:	69%
Propagation Delay Skew:	35ns/10m max.
Dielectric Strength:	1KV/minute
Min. Insulation Resistance :	5 GΩ•km
Max. Tensile Strength - Short Term:	110 N
Min. Bend Radius:	80 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-20 °C

Ordering Guide

Category	Construction	Sheath Material	Colour	Length
Category 6 (CAT6) 6	UTP (U/UTP) UTP FTP (F/UTP) FTP	PVC PVC LSZH LS	Grey GY	0.3-100m 0.3-100
			Red RD	
			Green GR	
			Blue BL	
			Yellow YE	
			Orange OR	
			White WH	
			Black BK	
			Purple PU	
			Pink PK	
For Example: PC6-FTP-LS-WH-5; Cat.6 FTP Patch Cord, 5M, LSZH, White.				