

## Patch Cord

### CAT.5E UTP/FTP Patch Cord

Category 5e 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 5e 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 D(Category 5E)
- 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 5e
- ANSI/TIA-568-C.2:2009 Category 5e
- IEC 60603-7-4
- RoHS Compliant Directive 2011/65/EU

#### Features & Benefits:

- Meets or exceeds industry standards for NEXT and return loss
- UTP, FTP and SFTP 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



UTP



FTP

#### Material Construction & Design:

Construction	UTP	FTP
Conductor Size (AWG)	24(Solid bare copper)	
Dielectric Material	High Density PE	
Insulation Diameter:	1.43 mm	
Screening Material:	N/A	Aluminium foil (100% Coverage)
Outer Jacket:	LSZH or PVC	
Outer Jacket Thickness	5.3 mm	6.2 mm

## Patch Cord

## Electrical, Mechanical &amp; Transmission Characteristics

Frequency Range:	1 - 100 MHz
Impedance:	10 $\Omega$ +/- 15
Coupling Attenuation:	40 dB min @ 30-100 MHz
Max. DC Resistance :	94 $\Omega$ /km@20°C
Max. Resistance Unbalance:	5 %
Capacitance:	5.6nF/100m max.
Capacitance Unbalance:	3.3 pF/m max.
Velocity of Propagation:	69%
Propagation Delay Skew:	25ns/10m max.
Dielectric Strength:	1KV/minute
Min. Insulation Resistance :	5 G $\Omega$ •km
Max. Tensile Strength - Short Term:	110 N
Min. Bend Radius:	UTP: 42 mm; FTP: 50 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-20 °C

## Ordering Guide

Category	Construction	Sheath Material	Colour	Length
Category 5e (CAT5e) <b>5E</b>	UTP (U/UTP) <b>UTP</b> FTP (F/UTP) <b>FTP</b>	PVC <b>PVC</b> LSZH <b>LS</b>	Grey <b>GY</b> Red <b>RD</b> Green <b>GR</b> Blue <b>BL</b> Yellow <b>YE</b> Orange <b>OR</b> White <b>WH</b> Black <b>BK</b> Purple <b>PU</b> Pink <b>PK</b>	0.3-100m <b>0.3-100</b>
<b>For Example:</b> PC5E-FTP-LS-BL-3; Cat.5E FTP Patch Cord, 3M, LSZH, Blue.				