CAT6 U/UTP SLIM SERIES COPPER PATCH CORDS

Zyxel CAT 6 UTP SLIM SERIES 26 AWG Patch Cords are beneficial for high-density networks and data centres, as well as a lot easier to install and manage. It consists of 8 Copper Conductors, 2 conductors twisted together to form a pair. 4 Pairs are laid up and separated from one another through a Special type of Cross Separator, which improves the Cross Talk. Outer Sheathing is done with LSZH. These UTP Patch Cords are designed to support high speed 1000BASE-T networks and are backward compatible with 10/100 BASE-T networks.

Application

Wireless Wi-FI Networks

Data interface rates have increased from 1G Base-T to even 10G Base due to significant rise in the need for WiFi connectivity.

Local Area Network

Last mile connectivity is is still feasible solution for business even in FTTB environment.

Surveillance & PoE Application

Requirement for cabling systems have become more stringent due to emergence of Power over Ethernet (PoE) technology.

Specifications

Physical Characteristics	
Assembly	Factory Crimped & Molded with Transparent RJ45 Both Ends
Standards	EIA/TIA 568.D2; IEC 61156-5 2nd ed.
Fire Rating	LSZH: IEC 60332-1; IEC 60754-2; IEC 61034;
Conductor	Stranded Bare Electrolytic Copper Cable
Insulation	Polyolefin
Twisting	Total 4 Pairs. 2 cores per pair.
Braiding	None
Sheath	LSZH Jacket
Colors	Blue, Grey
Pair Colors	Blue – Blue/White, Orange – Orange/White Brown – Brown/White, Green – Green/White

Generic Data	
Description	Zyxel Cat 6 Slim Series Patch Cords
Cable Type	Unshielded Twisted Pair
Shielding	None
Nominal Outer Diameter (mm)	5.60 mm ± 0.30 mm
Conductor Gauge	26 AWG (7/0.16 mm ± 0.010 mm)
Available Colors	Grey, Blue and Yellow
Available Length (mtrs)	0.5, 1, 2, 3, 5, 10, 12, 15 and 20 (In Meters)

Electrical Specifications	
Operating Category	U/UTP Cat6 Patch Cords
Nominal Velocity of Propagation (NVP)	69%
Operating Voltage – Max.	90V
PoE Compliance	IEEE802.3af and IEEE 802.3at
Maximum Temperature Rating	0°C to 50°C. At the installation time: -20°C to 75°C. Operational Temperature: -20°C to 60°C
Resistance Unbalance	≤ 5.0%
Conductor Resistance	145 Ω/km @20°C
Capacitance	5.6 nF/100m max.
Capacitance Unbalance (pair to ground)	330pF/100 m max
Mean Characteristic Impedance	(100 ± 15) Ω
Delay Skew	≤ 45 ns/100m
Test Voltage (DC, 1 min) Core/Core	1000 V

High Frequency Electrical Parameters

Frequency Mhz	ATT (dB/100m) max.	NEXT (dB) min	PS.NEXT (dB) min.	ACRF (dB@100 m) min.	PS.ACRF (dB@ 100 m) min	Return Loss (dB/100m)
1	2.3	65	62	63.3	60.3	19
4	4.2	63	60.5	51.2	48.2	19
8	5.8	58.2	55.6	45.2	42.2	19
10	6.5	56.6	54	43.3	40.3	19
16	8.2	53.2	50.6	39.2	36.2	18
20	9.2	51.6	49	37.2	34.2	17.5
25	10.2	50	47.3	35.3	32.3	17
100	20.9	39.9	37.1	23.3	20.3	12
200	30.1	34.8	31.9	17.2	14.2	9
250	33.9	33.1	30.2	15.3	12.3	8

Product

Model
ZY6C60PCLX1XXXM

For other Zyxel Solutions , visit us on the web at www.zyxel.com