

CAT6 U/UTP CABLE

Cat6 4Pair U/UTP 23AWG Cable Grey – 305m

Zyxel Category 6 cables shall meet ANSI/TIA-568-C.2. Category 6, ISO 11801 Class E channel standards and RoHS Directive 2002/95/EC/ Compliant. The conductors shall be 23 AWG construction with PE/FEP/Polyolefin insulation. The copper conductors shall be twisted in pairs and covered by a low smoke, zero halogen (LSZH) jacket or a flame-retardant PVC (FR PVC) jacket.

These U/UTP cables are designed to support high speed 1000BASE-T networks and are backward compatible with 10/100BASE-T networks. The cable is packed in 305 mtr Reel in a recyclable corrugated box.

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	
Application	Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Standard	ISO/IEC 11801 2nd ed.; IEC 61156-5 2nd ed.
Fire Rating	PVC : IEC 60332-1 LSZH: IEC 60332-1; IEC 60754-2; IEC 61034;
Conductor	Annealed Bare copper wire Ø 0.55 mm
Insulation	PE / Polyolefin, Ø 0.90 mm
Twisting	Total 4 Pairs. 2 cores per pair
Screen	None
Sheath	FR-PVC or LSZH
Cable Lay Up	To The Core
Pair Colors	Blue – Blue/White Orange – Orange/White Brown – Brown/White Green – Green/White
Outer Jacket Color	Grey RAL 7035

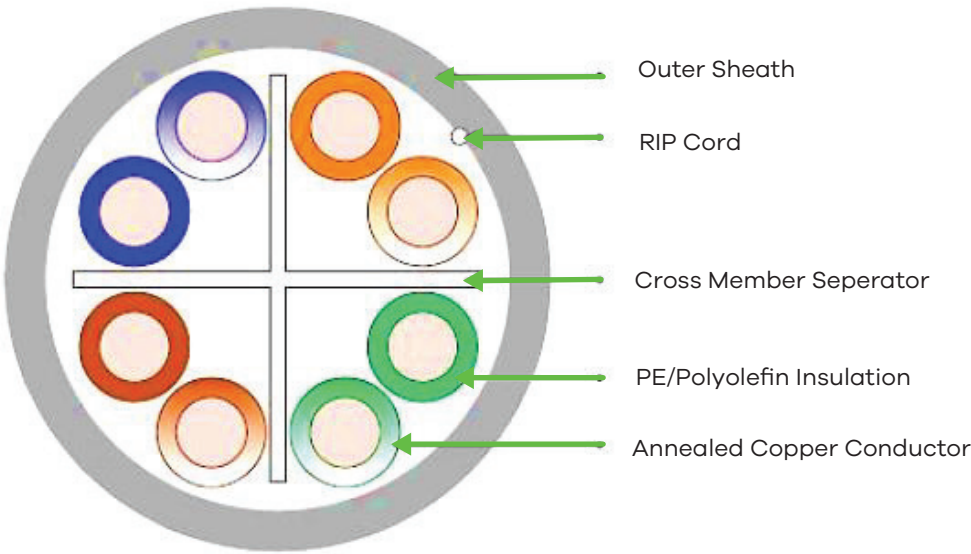
Generic Data	
Description & Length	Cable Cat 6 – 1000 Ft. / 305 Mtr
Cable Type	U/UTP
Conductor Diameter mm	0.55 ± 0.03 mm
Core Diameter mm	1.03 ± 0.05 mm
Shielding	None
Nominal Outer Diameter (mm)	6.0 ± 0.30 mm
Conductor Gauge	23 AWG
Pair Separator	PE / Polyolefin Cross - Member(+) Separator

Electrical Specifications	
Telecommunication Standards	ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E
Operating Frequency – Min.- Max.	250Mhz
Nominal Velocity of Propagation (NVP)	69%
Operating Voltage – Max.	90V
PoE Compliance	IEEE802.3af and IEEE 802.3at
Maximum Temperature Rating	Storage -20°C to +60°C. At the installation time: -20°C to 75°C. Operational Temperature: -20°C to 60°C
Resistance Unbalance	≤ 5%
Conductor Resistance	93.8 Ω/km @ 20°C
Capacitance	5.6 nF/100 m max.
Capacitance Unbalance (pair to ground)	330 pF/100 m max
Mean Characteristic Impedance	100 ± 15 Ω
Propagation Delay	≤ 534 ns/100m
Delay Skew	≤ 45 ns/100m
Bending Radius	≥ 4 X Cable Dia

Typical Transmission Performances

Frequency MHz	Impedance Ω	Return Loss dB	Attenuation dB / 100 m	Next Worst Pair dB	Next Power Sum dB	ELFEXT Worst Pair dB	ELFEXT Power Sum dB	Nominal Velocity Propagation
0.772	100 ±15	19	2.1	76	74	70	67	0.69
1		19	2.1	74.3	72.3	67.8	64.8	
4		19	4	65.3	63.3	55.8	52.8	
8		19	5.3	60.8	58.8	49.7	46.7	
10		19	6.3	59.3	57.3	47.8	44.8	
16		18	8	56.2	54.2	43.7	40.7	
20		17.5	9	54.8	52.8	41.8	38.8	
25		17	10.1	53.3	51.3	39.8	36.8	
31.25		16.5	11.4	51.9	49.9	37.9	34.9	
62.5		14	16.5	47.4	45.4	31.9	28.9	
100		12	21.3	44.3	42.3	27.8	24.8	
200		9	31.5	39.8	37.8	21.8	18.8	
250		8	35.9	38.3	36.3	19.8	16.8	

Construction Of Cable



Product

Model

ZY60CCG3F0135 – FRPVC
ZY60CCG3L0135 – LSZH

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