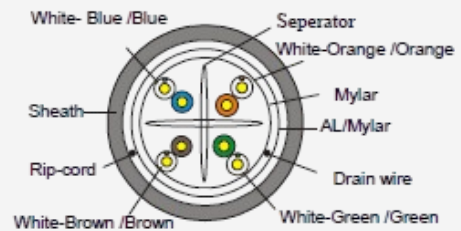


Data Cable, Cat6, F/UTP, 23AWG, LSZH - FC6AFULW



DESCRIPTION

FABNET Category 6A F/UTP cables are specifically designed to deliver robust standards-based performance ensuring optimum bandwidth for today's high speed network applications. Category 6A cable shall meet ANSI/TIA-568-2. C Category 6A component standard. The conductors shall be 23 AWG construction with HDPE insulation. The copper conductors shall be twisted in pairs and covered by LSZH jacket.

APPLICATIONS

- Supports category 6A networks running up to 500MHz applications.
- 100BASE-T through 10GBASE-T Ethernet
- Horizontal and backbone in structured cabling installation

SPECIFICATIONS & FEATURES

- The cable shall meet SO/IEC11801, ANSI/TIA-568.2-D, EN50173
- Outer Jacket: LSZH
- 23AWG premium grade copper conductor
- F/UTP cable structure for better shielding in external interference environments

MECHANICAL & PHYSICAL PROPERTIES

Basic Conductor	Solid Bare Copper	Category	CAT 6A F/UTP
Conductor Size	23 AWG	Pulling Force	50 N
Insulation	HDPE	Diameter	1.12±0.1mm
Number of Insulated Conductors	8, twisted in 4 pairs	Short & Long Term Bend Radius	4xOD mm & 8xOD mm
Color Code of Pairs	1 White- Blue /Blue 2 White-Orange /Orange 3 White-Green /Green 4 White- Brown /Brown	Screening	Mylar +Al/Mylar
Outer Jacket	LSZH	Sheath Thickness	0.55±0.15 mm
Jacket Color	White. Other colors available upon request	Twisting Process	23AWG Insulation Wire
Overall Tape Wrap	Polyester	Operating Temperature	-40 to +70C

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±5 Ohm @ 1-500 MHz
DC Resistance	<8.5Ω/100m
Resistance unbalance	≤4% (@ 20°C)
Capacitance	56 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1600 pF/Km max. @ 1 KHz
Voltage rating	72 Vdc max.
Dielectric strength	1.7 KV A.C/2 Seconds
Velocity of Propagation (NVP)	67%
Propagation delay	534 + 36/f½ nS/100m max @ 1-500 MHz
Propagation Delay Skew	45 nS/100m max @ 1-500 MHz
Insulation Resistance	5000 MegaOhm-Km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz

PACKING DETAILS

Length (Mtr)	Approx. OD(mm)	Packaging Type
305	7.4±0.8mm	REEL
500	7.4±0.8mm	REEL

ORDERING INFORMATION

FC6AFULW-AT	Data Cable, Cat6A, F/UTP, 23AWG, LSZH, White, 305 Mtr
FC6AFULW-AF	Data Cable, Cat6A, F/UTP, 23AWG, LSZH, White, 500 Mtr

*Jacket Colour Variants (W-White, B-Blue, G-Gray, C-Customized)