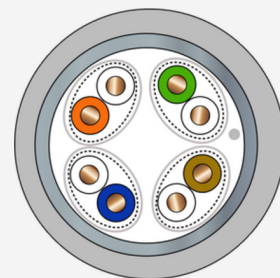
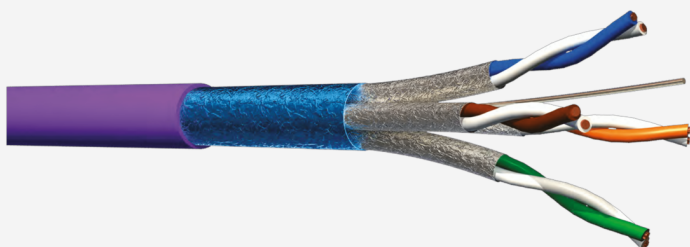


Data Cable, Cat6A, F/FTP, 23AWG, LSZH - FC6AFFLW



DESCRIPTION

FABNET Category 6A shielded twisted pair (F/FTP) cables are constructed with a 4 x 2 x 23 AWG copper wire structure to Class EA standards and to support protocols up to 500 MHz. F/FTP cables are excelled in environments prone to heavy external interference like EMI, ensuring uninterrupted signal transmission. This cable uses a 5-foil screened design consisting of 4 individual foils wrapped in pairs plus an overall foil shield. Supports channel performance exceeding ANSI/TIA and ISO/IEC Category6A requirements.

APPLICATIONS

- Supports category 6A (Class EA) networks running up to 500MHz applications.
- 100BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE)- IEEE 802.3bt Type 1 to 4
- Horizontal and backbone in structured cabling installations

SPECIFICATIONS & FEATURES

- The cable shall meet ANSI/TIA-568.2-D and ISO 11801 Category 6A standards.
- Outer Jacket: LSZH
- 23AWG premium grade copper conductor
- F/FTP cable structure for better shielding in external interference environments

MECHANICAL & PHYSICAL PROPERTIES

Basic Conductor	Solid Bare Copper	Category	CAT 6A F/FTP
Conductor Size	23 AWG	Pulling Force	50 N
Insulation	Polyolefin	Short Term Bend Radius	4xOD mm
Number of Insulated Conductors	8, twisted in 4 pairs	Long Term Bend Radius	8xOD mm
Color Code of Pairs	Blue x White/Blue, Orange x White/ Orange, Green x White/Green, Brown x White/ Brown	Operating Temperature	-40 to +70C
Outer Jacket	LSZH	Installation Temperature	-10 to +50C
Jacket Color	White. Other colors available upon request	Storage Temperature	-40 to +70C
Overall Tape Wrap	Aluminum Foil Tape	Individual shield	Aluminum Foil Tape

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-500 MHz
DC Resistance	76 Ohm/km max.
Resistance unbalance	2% max
Capacitance	45 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)	Min. %78 - 80
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±0.3	BOX
500	7.4±0.3	REEL

ORDERING INFORMATION

FC6AFFLW-AT	Data Cable, Cat6A, F/FTP, 23AWG, LSZH, White, 305 Mtr
FC6AFFLW-AF	Data Cable, Cat6A, F/FTP, 23AWG, LSZH, White, 500 Mtr

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