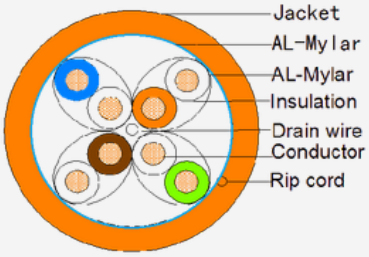
FABNET
LINKING INNOVATIONS

Data Cable, Cat6A, F/FTP, 23AWG, LSZH, Dca - 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 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 ISO/IEC11801 、ANSI/TIA-568.2-D
- Outer Jacket: LSZH
- 23AWG premium grade copper conductor
- F/FTP cable structure for better shielding in external interference environments
- Reaction to fire Classification：Dca,s2,d2,a1

MECHANICAL & PHYSICAL PROPERTIES

Basic Conductor	Solid Bare Copper	**Category**	SD F/FTP- CAT6A-4P-LSZH (Dca-s2-d2-a1)
Conductor Size	23 AWG	**Insulation Material**	Skin-foam-skin PE
Drain wire	Yes	**Insulation Diameter**	1.28±0.05 mm
Number of Insulated Conductors	8, twisted in 4 pairs	**Screening Material**	Al/Mylar
Color Code of Pairs	1 White/Blue 2 White/Orange 3 White/Green 4 White/Brown	**Sheath Material**	LSZH (complies RoHS)
Sheath Thickness	0.55±0.1 mm	**Sheath Surface**	Clean
Rip-cord	Yes	**Operating Temperature**	-40 to +70C

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ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±15 Ohm @ 1-250 MHz ; 100±22 Ohm @ 250-500 MHz
DC Resistance	< 9.38 Ω / 100m
Resistance Unbalance within a pair (%)	2% Max
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)	74%
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	6.9±0.5 mm	REEL
500	6.9±0.5 mm	REEL

ORDERING INFORMATION

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

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