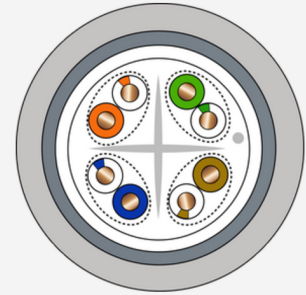


## Data Cable, Cat6A, F/UTP, 23AWG, LSZH - FC6AFULW



### DESCRIPTION

FABNET Category 6A shielded twisted pair (F/UTP) 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/UTP cables excel in environments prone to heavy external interference like EMI, ensuring uninterrupted signal transmission.

### 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/UTP cable structure for better shielding in external interference environments

### MECHANICAL & PHYSICAL PROPERTIES

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

## ELECTRICAL SPECIFICATIONS

<b>Characteristic Impedance</b>	100±6 Ohm @ 1-500 MHz
<b>DC Resistance</b>	82 Ohm/Km max
<b>Resistance unbalance</b>	2% max
<b>Capacitance</b>	56 pF/m nom. @ 1 KHz
<b>Cap. Unbalance (wire to ground)</b>	1600 pF/Km max. @ 1 KHz
<b>Voltage rating</b>	72 Vdc max.
<b>Dielectric strength</b>	1.7 KV A.C/2 Seconds
<b>Velocity of Propagation (NVP)</b>	Min. %78 - 80
<b>Propagation delay</b>	534 + 36/f½ nS/100m max @ 1-500 MHz
<b>Propagation Delay Skew</b>	45 nS/100m max @ 1-500 MHz
<b>Insulation Resistance</b>	5000 MegaOhm·Km min. @ 500 Vdc
<b>Coupling attenuation</b>	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz

## PACKING DETAILS

Length (Mtr)	Approx. OD(mm)	Packaging Type
305	7.2±0.3	BOX
500	7.2±0.3	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)