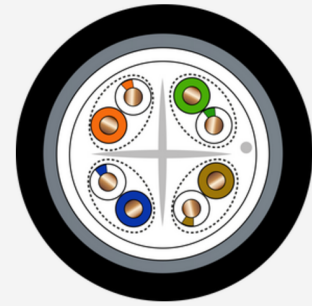


## Data Outdoor Cable, Cat6A, F/UTP, 23AWG, PE - FC6AFUEB



### DESCRIPTION

FABNET Category 6A F/UTP Outdoor UV resistant, black PE Outer Jacket cables are suitable for harsh conditions for external applications. It is used to transport digital, analog voice, data, video and POE signals. The cable is constructed of 23-gauge copper conductors. It consists of 8 Copper Conductors, 2 conductors twisted together to form a pair. The cable is suitable for outdoor applications. Supports Gigabit Ethernet (10GbaseT) standard Operates at bandwidth of 500MHz.

### 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
- Indoor/Outdoor structured cabling installations

### SPECIFICATIONS & FEATURES

- The cable shall meet ANSI/TIA-568.2-D and ISO 11801 Category 6A standards.
- Cable jacket UV-stabilized outdoor-rated PE material
- 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>	60 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 +80C
<b>Outer Jacket</b>	PE	<b>Installation Temperature</b>	-10 to +60C
<b>Jacket Color</b>	Black	<b>Storage Temperature</b>	-40 to +80C
<b>Overall Tape Wrap</b>	Polyester tape	<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	7.4±0.3	BOX
500	7.4±0.3	REEL

## ORDERING INFORMATION

FC6AFUEB-AT	Data Outdoor Cable, Cat6A, F/UTP, 23AWG, PE, Black, 305 Mtr
FC6AFUEB-AF	Data Outdoor Cable, Cat6A, F/UTP, 23AWG, PE, Black, 500 Mtr