

Data Outdoor Cable, Cat6A, U/UTP, 23AWG, PE - FC6AUUEB



DESCRIPTION

FABNET Category 6A 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
- 10GBASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE)- IEEE 802.3bt Type 1 to 4
- Indoor/Outdoor-Outdoor Ethernet Application

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
- U/UTP cable structure with cross separator inside for better cable performance

MECHANICAL & PHYSICAL PROPERTIES

Basic Conductor	Solid Bare Copper	Category	CAT 6A U/UTP
Conductor Size	23 AWG	Pulling Force	60 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 +80C
Outer Jacket	PE	Installation Temperature	-10 to +60C
Jacket Color	Black	Storage Temperature	-40 to +80C

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-500 MHz
DC Resistance	82 Ohm/Km max
Resistance unbalance	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)	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	40 dB min @ 30-100 MHz 40-20Log(f/100) @100-500 MHz

PACKING DETAILS

Length (Mtr)	Approx. OD(mm)	Packaging Type
305	6.2±0.3	BOX
500	6.2±0.3	REEL

ORDERING INFORMATION

FC6AUUEB-AT	Data Outdoor Cable, Cat6A, U/UTP, 23AWG, PE, Black, 305 Mtr
FC6AUULW-AF	Data Outdoor Cable, Cat6A, U/UTP, 23AWG, PE, Black, 500 Mtr