

Data Outdoor Cable, Cat6A, S/FTP, 23AWG, PE, Armored - FC6ASFAB



DESCRIPTION

FABNET Category 6A S/FTP Outdoor UV resistant, Armored, 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. This cables deliver data rates of 10 Gbps/s at 500 MHz. S/FTP armored Cable Consists of PE Insulated 23AWG Solid Bare Annealed Copper Conductors, twisted 4 pair stranded, steel wire Armor, PVC Inner sheath and PE (UV Stabilized) Outer sheath.

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 – Outdoor Ethernet Application/Harsh environment/Direct buried

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
- Fully shielded construction ensures virtually zero cross talk

MECHANICAL & PHYSICAL PROPERTIES

Basic Conductor	Solid Bare Copper	Category	CAT 6A S/FTP
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	UV resistant halogen-free	Installation Temperature	-10 to +60C
Jacket Color	Black	Storage Temperature	-40 to +80C
Overall Outer Shield	Tinned Copper Braid	Individual shield	Aluminum Foil Tape
Armor	Steel wire braiding	Inner Jacket	UV resistant halogen-free

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-500 MHz
DC Resistance	94 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	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz

PACKING DETAILS

Length (Mtr)	Approx. OD(mm)	Packaging Type
305	7.8±0.3	BOX
500	7.8±0.3	REEL

ORDERING INFORMATION

FC6ASFAB-AT	Data Outdoor Cable, Cat6A, S/FTP, 23AWG, Armored, PE, Black, 305 Mtr
FC6ASFAB-AF	Data Outdoor Cable, Cat6A, S/FTP, 23AWG, Armored, PE, Black, 500 Mtr