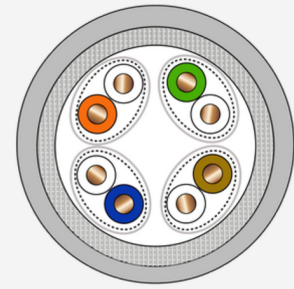


Data Cable, Cat8, S/FTP, 23AWG, LSZH - FC8SFLW



DESCRIPTION

FABNET Category 8, standard for next-generation twisted-pair cabling, enables up to four times faster data transfer at the same cabling type and supports both 25GBASE-T & 40GBASE-T short distance applications. Cat 8 cables support a bandwidth of up to 2000 MHz. High-Speed Networking: Suitable for any application requiring ultra-fast networking, including large-scale network infrastructures.

APPLICATIONS

- Supports Category 8 networks up to 2000MHz
- 40GBASE-T Ethernet on 30m
- 100BASE-T through 10GBASE-T Ethernet on 90m
- Power over Ethernet (PoE)- IEEE 802.3bt Type 1 to 4
- Horizontal , backbone & Data Center in structured cabling installations

SPECIFICATIONS & FEATURES

- The cable shall meet IEC 61156-9 Cat.8.1, ISO 11801
- Outer Jacket: LSZH (Low Smoke Zero Halogen) flame retardant
- 22AWG premium grade copper conductor
- Fully shielded construction ensures virtually zero cross talk

MECHANICAL & PHYSICAL PROPERTIES

Basic Conductor	Solid Bare Copper	Category	CAT 8 S/FTP
Conductor Size	22 AWG	Pulling Force	50 N / mm ² max
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 +70C
Outer Jacket	LSZH flame retardant	Installation Temperature	-10 to +50C
Jacket Color	White. Other colors available upon request	Storage Temperature	-40 to +70C
Overall Outer Shield	Tinned Copper Braid	Individual shield	Aluminum Foil Tape

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	100±6 Ohm @ 1-2000 MHz
DC Resistance	76 Ohm/km max.
Resistance unbalance	2% max
Capacitance	45 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1600 pF/Km max. @ 1 KHz
Voltage rating	72 Vdc max.
Dielectric strength	1500 Volt / 1 minute min. rms
Velocity of Propagation (NVP)	Min. %77 - 80
Propagation delay	534 + 36/f½@ 1-2000 MHz
Propagation Delay Skew	25 nS/100m max @ 1-2000 MHz
Insulation Resistance	5000 MegaOhm·Km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-2000 MHz

PACKING DETAILS

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

ORDERING INFORMATION

FC8SFLW-AT	Data Cable, Cat8 S/FTP, 23AWG, LSZH, White, 305 Mtr
FC8SFLW-AF	Data Cable, Cat8, S/FTP, 23AWG, LSZH, White, 500 Mtr

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