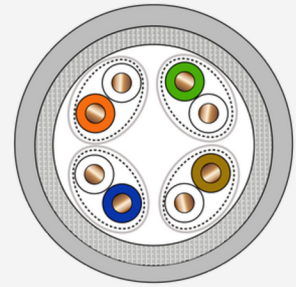


## Data Cable, Cat7, S/FTP, 23AWG, LSZH - FC7SFLW



### DESCRIPTION

FABNET Category 7 Shielded cable features individual shielding for each pair and an additional common shield made of tinned copper braid, making it ideal for shielded systems. Cat7 cable provides transmission performance in the 1-600MHz range as per IEC 61156-5 and is tested up to 1.2GHz for reference. Supports also channel performance exceeding ANSI/TIA and ISO/IEC Category6A requirements.

### APPLICATIONS

- Supports Category 7 networks up to 600MHz
- 100BASE-T through 10GBASE-T Ethernet
- 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 ANSI/TIA-568-D.2, ISO 11801
- Outer Jacket: LSZH (Low Smoke Zero Halogen) flame retardant
- 23AWG premium grade copper conductor
- Fully shielded construction ensures virtually zero cross talk

### MECHANICAL & PHYSICAL PROPERTIES

<b>Basic Conductor</b>	Solid Bare Copper	<b>Category</b>	CAT 7 S/FTP
<b>Conductor Size</b>	23 AWG	<b>Pulling Force</b>	50 N / mm <sup>2</sup> max
<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 flame retardant	<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 Outer Shield</b>	Tinned Copper Braid	<b>Individual shield</b>	Aluminum Foil Tape

## ELECTRICAL SPECIFICATIONS

<b>Characteristic Impedance</b>	100±6 Ohm @ 1-600 MHz
<b>DC Resistance</b>	76 Ohm/km max.
<b>Resistance unbalance</b>	2% max
<b>Capacitance</b>	45 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>	1500 Volt / 1 minute min. rms
<b>Velocity of Propagation (NVP)</b>	Min. %77 - 80
<b>Propagation delay</b>	534 + 36/f <sup>1/2</sup> nS/100m max @ 1-600 MHz
<b>Propagation Delay Skew</b>	25 nS/100m max @ 1-600 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) @100-600 MHz

## PACKING DETAILS

Length (Mtr)	Approx. OD(mm)	Packaging Type
305	7.4±0.3	BOX
500	7.4±0.3	REEL

## ORDERING INFORMATION

FC7SFLW-AT	Data Cable, Cat7 S/FTP, 23AWG, LSZH, White, 305 Mtr
FC7SFLW-AF	Data Cable, Cat7, S/FTP, 23AWG, LSZH, White, 500 Mtr

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