

Category 7 S/FTP Cable

Features and Benefits

- **Applications:**
 - High-Speed Data Centers: 10G backbone cabling (future-proof for 25G/40G short-reach).
 - Broadcast & Professional AV .
 - Industrial Automation, Smart Factories & High-EMI Environments.
 - High-Speed PoE++ (802.3bt) Applications
 - Future-Proof Installations
- **Key Features:**
 - Cat 7 supports frequencies up to 750 MHz .
 - Future-proof for emerging technologies like 10 Gbps over 100M and 25 Gbps over shorter distances.
 - Each pair is individually shielded, and an overall shield reduces crosstalk and EMI (electromagnetic interference).
 - Suitable for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE ,802.3at and 802.3bt Type 4 (PoE++) up to 100W.
 - The optional outer LSZH/LSFRZH jacket is flame-retardant and produces minimal smoke and zero halogen gases during combustion.

Physical Specifications

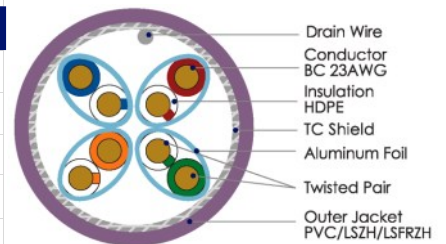
Category	7
No. of Pair & Conductor	4 PR /Solid bare copper / 23 AWG
Conductor Insulation & Size	HDPE/ Outer Dia. 1.45 ± 0.1 mm
Cable Type	S-FTP / AL—MYLA Foil around each pair/Tinned copper Overall braiding
Outer Jacket Material & Size	LSFRZH / Outer Dia. : 7.80 ± 0.35mm
Min. Bend Radius Installation	8x Cable-Ø
Operating Temperature	-10°C to +65°C
Storage Temperature	- 20°C to +75°C

Electrical Characteristics

Conductor resistance unbalance	≤ 2%
Delay skew 4.0-100MHz	≤ 25 ns/100m
Max. DC resistance	≤ 9.0 Ω/100m
Insulation Resistance	≥5000 MΩ*km
Propagation Velocity at >10 MHz (NVP*c)	76 %
Bandwidth	600 MHz

Transfer Characteristics

Freq. MHz	RL	ATT	NEXT	ACRF	PS NEXT	PS ACRF
	≥dB	≥dB	≥dB	≥dB	≥dB	≥dB
4.00	23.0	3.7	78.0	78.0	75.0	75.0
100.00	20.1	19.0	72.4	54.0	69.4	52.3
250.00	17.3	31.0	66.4	46.0	63.4	44.3
600.00	17.3	50.1	60.7	38.4	57.7	36.7



- **Standard:**
 - ISO/IEC 11801 Class F.
 - EN 50173-1 & EN 50288-9-1.
 - ANSI/TIA-568.2-D
 - IEC 60332-1,2 (for LSZH),
 - IEC 60332-3-24/25, (for LSFRZH),
 - RoHS & CE

Part No.	Type of Class	Type of Cable	Conductor Size	Outer Jacket	Outer Jacket Color Options	Packaging
CS-C7XSF23	CAT-7	S-FTP	23AWG	LSZH	Purple	500M - 1000M/Reel