

Category 7A S/FTP Cable

Features and Benefits

- **Applications:**
 - Ultra-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 7A supports frequencies up to 1000 MHz .
 - Future-proof for emerging technologies like 25 Gbps and 40 Gbps over shorter distances.
 - S-FTP: 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.
 - Optional Outer Jacket LSZH/LSFRZH Compound provide Maximum Safety & Performance for High-Risk Environments

Physical Specifications

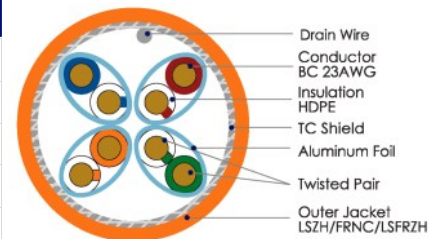
Category	7A
No. of Pair & Conductor	4 PR /Solid bare copper / 22 AWG
Conductor Insulation & Size	HDPE / Outer Dia. 1.50 ± 0.1 mm
Cable Type	S-FTP / AL—MYLA Foil around each pair/Tinned copper Overall braiding
Outer Jacket Material & Size	LSFRZH / Outer Dia. : 7.80 ± 0.35mm
Min. Bend Radius Installation	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	≤25ns/100m
Max. DC resistance	≤ 7.0 Ω/100m
Insulation Resistance	≥5000 MΩ*km
Propagation Velocity at >10 MHz (NVP*c)	76 %
Bandwidth	1000 MHz

Transfer Characteristics

Freq. MHz	RL ≥dB	ATT ≥dB	NEXT ≥dB	ACRF ≥dB	PS NEXT ≥dB	PS ACRF ≥dB
4.00	23.0	3.7	78.0	78.0	75.0	75.0
100.00	20.1	18.5	75.4	55.3	72.4	52.3
250.00	17.3	29.7	69.4	47.3	66.4	44.3
500.00	17.3	42.8	64.9	41.3	61.9	38.3
1000.00	15.1	61.9	60.4	35.3	57.4	32.3



Standard:

- ISO/IEC 11801 Class FA.
- EN 50173-1 & EN 50288-9-1.
- ANSI/TIA-568.2-D
- IEEE 802.3,
- IEC 61156-5.
- IEC 60332-1,2 (for LSZH & FRNC),
- 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-C7ASF22	CAT-7A	S-FTP	22AWG	LSFRZH	Orange	500M-1000M/Reel