

Category 6A F/FTP Cable

Features and Benefits

- **Applications:**
 - Enterprise & Data Center Networks: 10G Ethernet (10GBASE-T) backbone cabling
 - Industrial & High-EMI Environments
 - High-Speed PoE++ (802.3bt) Applications
 - Future-Proof Installations
- **Key Features:**
 - Cat 6A supports frequencies up to 500 MHz.
 - Cat6A Supports 10GBASE-T up to 100 m — ideal for data centers, enterprise LANs, and server rooms.
 - F-FTP: Each pair is individually shielded, and an overall Foil 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

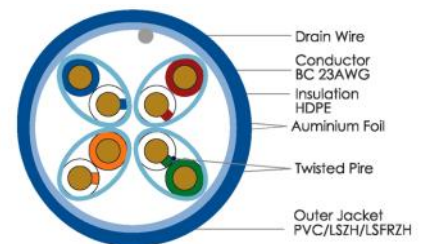
Category	6A
No. of Pair & Conductor	4 PR /Solid bare copper / 23 AWG
Conductor Insulation & Size	HDPE/ Outer Dia. 1.36 ± 0.1 mm
Cable Type	F-FTP / AL—MYLA Foil around each pair and Overall Foil.
Outer Jacket Material & Size	LSFRZH/ Outer Dia. : 7.50 ± 0.35mm
Min. Bend Radius Installation	8x Cable-Ø
Operating Temperature	-10°C to +65°C
Storage Temperature	- 20°C to +75°C

Electrical Characteristics

Conductor resistance unbalance	≤2%
Delay skew 4.0-100MHz	≤ 45 ns/100m
Max. DC resistance	≤ 9.0 Ω/100m
Insulation Resistance	≥5000 MΩ*km
Propagation Velocity at >10 MHz (NVP*c)	74 %
Bandwidth	500 MHz

Transfer Characteristics

Freq. MHz	RL ≥dB	ATT ≥dB	NEXT ≥dB	ACRF ≥dB	PS NEXT ≥dB	PS ACRF ≥dB
4	21.0	3.5	64.1	52.1	61.8	49.1
25	19.0	8.8	51.5	36.2	49.1	33.2
100	14.0	18.0	41.8	24.2	39.3	21.2
300	8.6	35.6	31.8	13.3	29.1	10.3
500	8.0	43.8	26.7	10.2	23.8	7.2



- **Standard:**
 - ISO/IEC 11801 Class EA.
 - EN 50173-1 & EN 50288-10-1 .
 - 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-C6AFF23	CAT-6A	F-FTP	23AWG	LSFRZH	Aqua	500M - 1000M/Reel