

Category 6 F/UTP Cable

Features and Benefits

- **Applications:**
 - Industrial & Harsh Environments : Used in low-EMI environments for automation and control systems .
 - Telecom Towers & Rooftop Installations Weatherproofing ensures reliable performance in exposed locations.
- **Key Features:**
 - Cat 6 supports frequencies up to 250 MHz..
 - Cat6 Supports 1 Gbps up to 100 m; 10 Gbps over shorter distances (≤55 m) — ideal for data centers, enterprise LANs, and server rooms.
 - Overall Foil shield reduces crosstalk and EMI (electromagnetic interference)..
 - Suitable for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, Type 3 (PoE+) up to 60W
 - The optional outer LSZH jacket is flame-retardant and produces minimal smoke and zero halogen gases during combustion.
 - The optional outer PE jacket, resists moisture, UV radiation and abrasion-resistant, ideal for outdoor installations .

Physical Specifications

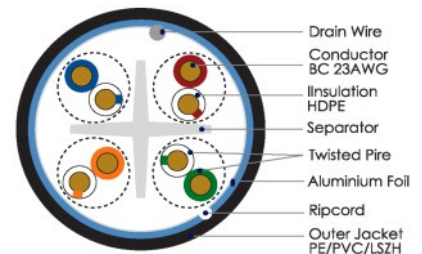
Category	6
No. of Pair & Conductor	4 PR /Solid bare copper / 23 AWG
Conductor Insulation & Size	HDPE/ Outer Dia. 1.15 ± 0.1 mm
Cable Type	F-UTP / AL—MYLA Overall Foil.
Outer Jacket Material & Size	PE / Outer Dia. : 7.30 ± 0.35mm
Min. Bend Radius Installation	8x Cable-Ø
Operating Temperature	-10°C to +65°C
Storage Temperature	- 20°C to +75°C

Electrical Characteristics

Conductor resistance unbalance	≤ 2%
Delay skew 4.0-100Mhz	≤ 45 ns/100m
Max. loop resistance	≤ 9.0 Ω/100m
Insulation Resistance	≥5000 MΩ*km
Propagation Velocity at >10 MHz (NVP*c)	72 %
Bandwidth	250 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	8.9	51.5	36.2	49.1	33.2
100	14.0	18.6	41.8	24.2	39.3	21.2
200	11.0	27.4	36.9	18.2	34.3	15.2
250	10.0	31.1	35.3	16.2	32.7	13.2



- **Standard:**
 - ISO/IEC 11801 Class E.
 - EN 50173-1 & EN 50288-6-1 .
 - ANSI/TIA-568.2-D
 - IEC 60332-1, (LSZH Version)
 - RoHS & REACH

Part No.	Type of Class	Type of Cable	Conductor Size	Outer Jacket	Outer Jacket Color Options	Packaging
CS-C6XFU23	CAT-6	F-UTP	23AWG	PE	Black	305MBox- 500M/Reel