

PRODUCT DATA SHEET

Category 6A U/FTP (4 Pair) Cable



Introduction :

Cat6A stands as a cornerstone in the Layer 1 model of modern networking infrastructure. With its enhanced capabilities, Cat6A paves the way for robust data transmission in today's demanding digital landscape.

Performance Characteristics :

Bandwidth : Supports up to 500 MHz bandwidth.

Data Rate : Capable of handling 10 Gigabit Ethernet (10GBASE-T) up to 100 meters.

Alien Crosstalk : Superior Alien Crosstalk performance.

Backward Compatibility : Compatible with older Ethernet standards, ensuring seamless integration into existing networks.

Shielding : Provides improved electromagnetic interference (EMI) protection

Key Applications :

Wi-Fi 6, 6e and 7 Deployments : Supports the high data rates required for access points, enabling seamless connectivity in dense wireless environments.

10Gig Data Applications : Ensuring smooth performance for bandwidth-intensive tasks.

4K/8K Video Streaming : Suitable for transmitting high-resolution video content without latency or loss of quality.

Data Centres : Reliable, high-speed connectivity for server-to-server communication and storage area networks (SANs)

IP Security Cameras : Provides sufficient bandwidth and power for high-definition IP cameras, facilitating clear and uninterrupted video surveillance.

VoIP Telephony : Ensures clear and reliable voice communication in Voice over IP (VoIP) systems.

IoT : Cat6A's higher bandwidth supports high-definition video surveillance cameras and real-time video conferencing systems, ensuring reliable connectivity and smooth operation of critical office infrastructure.

Product Specifications

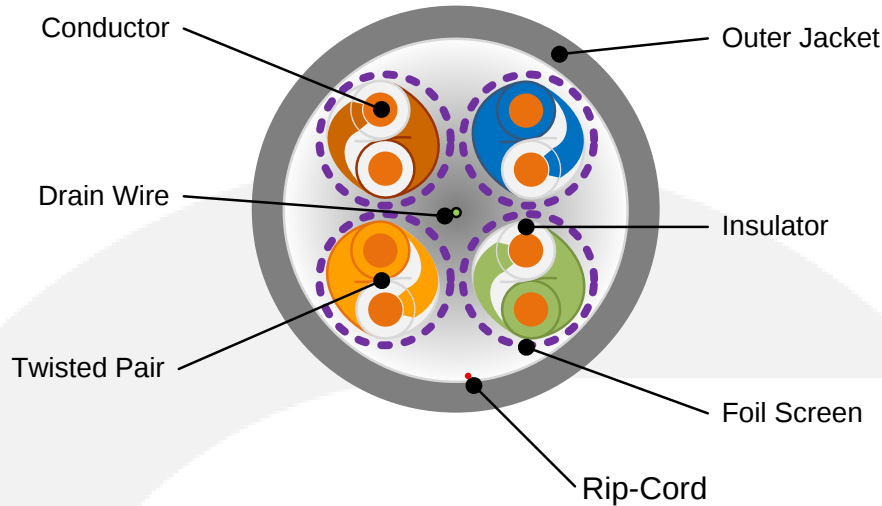
Test Standard	ISO/IEC 11801, TIA-568-D:2018
Conductor - Material	Solid-Bare Copper
Conductor - Dimension	23AWG (0.560mm)
Insulation - Material	Skin-Foam-Skin PE
Insulation - Diameter	1.330 ± 0.05 mm
Inner - Sheath - Material	Aluminium-Mylar
Sheath - Material	LSZH (RoHS Compliant)
External - O.D	7.1 ± 0.4 mm
Operating Temperature	-20°C to +70°C

Part Numbers

Model No :	Description :
G6-UFTP-C6A-GY	Cat6A U/FTP Solid Cable LSZH Grey 500m Reel

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Technical Performance 100m :

Frequency Mhz	RL db	ATT db	NEXT db	Phase Delay ns
1.0	20.0	2.1	74.3	570.0
4.0	23.0	3.8	65.3	552.0
8.0	24.5	5.3	60.8	546.7
10.0	25.0	5.9	59.3	545.4
16.0	25.0	7.5	56.2	543.0
20.0	25.0	8.4	54.8	542.1
25.0	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.5	21.5	15.0	47.4	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	536.3
300	16.8	34.3	37.1	536.1
500	15.2	45.3	33.8	535.6

Fire Safety Rating

IEC60332 Part 1 (PVC)

IEC60332-1-2 (LSZH)

IEC60332-3-22 (LSZH)

IEC60332-3-24 (LSZH)

Sheath Physical Properties

Before Aging : Tensile Strength (Mpa) ≤ 10.0
Elongation (%) ≤ 125

After Aging : Tensile Strength (Mpa) ≤ 8.0
Elongation (%) ≤ 100

Cold Bend (-20 $\pm$ 2°Cx4h) 8 x Cable O.D. No Visible Cracks

Electrical Characteristics 20°

Delay Skew (ns/100m) ≤ 45

Velocity of Propagation (%) 74

Unbalanced-to-ground capacitance (pf/100) max 330

DC Resistance (Ω /100m) max 9.38

DC Conductor Resistance Unbalance (%) max 5.0

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