



Cat6A 23AWG U/FTP Cable

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (10GbaseT) standard. Operates at bandwidth of 500MHz. This cable well exceeds the requirements of ANSI/TIA- 568-C.2 & ISO/IEC 11081. Approval: ETL verified to ANSI/TIA-568-C.2 & ISO/IEC 11081.

Construction

- Conductor** : 23 AWG Solid bare Copper
- Insulation** : Foam skin PE
- Pairs** : 2 Insulated conductors twisted together
- Individual Pair** : Aluminum/Polyester Foil
- Shield** : Tinned Copper Drain Wire
- Sheath** : LSZH
- Shield** : Aluminum / Polyester Foil
- Cable Diameter** : 7.6 mm nominal



Color Code

PAIR NO	COLOR
1-2	White-Orange Stripe and Orange
3-6	White-Green Stripe and Green
4-5	White-Blue Stripe and Blue
7-8	White-Brown Stripe and Brown

Electrical Properties

Characteristic Impedance	: $100 \pm 15 \Omega$
Conductor Resistance	: $< 9.38 \Omega/100m$
Mutual Capacitance	: $< 5.6nF/100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: $330pF/100m$
Delay Skew	: $< 45nS/100m$ max

Mechanical Properties

Short Term Bend Radius	: 8 x OD mm
Long Term Bend Radius	: 4 x OD mm
Pulling Force	: 11.5Kg
Temperature Range	: -20° to +75°C

Transmission Characteristics Per 100M

Frequency (MHz)	Max attenuation (dB/100M)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF	PSACRF
1	2.1	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
10	5.9	25.0	59.3	57.3	47.8	44.8
16	7.5	25.0	56.2	54.2	43.7	40.7
20	8.4	25.0	54.8	52.8	41.8	38.8
31.25	10.5	23.6	51.9	49.9	37.9	34.9
62.5	15	21.5	47.4	45.4	31.9	28.9
100	19.1	20.1	44.3	42.3	27.8	24.8
200	27.6	18.0	39.8	37.8	21.8	18.8
250	31.1	17.3	38.3	36.3	19.8	16.8
300	34.3	16.8	38.1	35.1	18.3	15.3
500	45.3	15.2	34.8	31.8	13.8	10.8

Connection System

Compatible with all common systems according to ANSI/TIA-568-C.2

Ordering Information

Product No.	Description
NCB-6ASGRYR-500-LS	Cat6A 10G U/FTP 23AWG LSZH Solid Cable - 500M/Roll - Grey Colour