



Ref No: BCS11685ANH

DESCRIPTION :

Category 6A Cable, CAT6A, 4P, 23AWG, FTP, LSZH – PURPLE

Premise Horizontal Cable (500MHz), 4-Pair, 23 AWG solid bare copper conductors, FTP, LSZH, Polyethylene insulation,

APPLICATION :

Suitable for Local Area Networks (LAN) and analog & digital video applications

CONSTRUCTION :

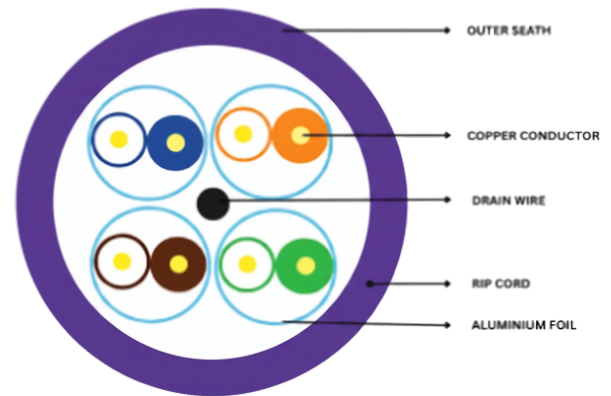
Cores	4 Pair
Section	23AWG
Conductor Material	Solid Bare Copper
Insulation	Foamed Polyethylene (FPE)
Colour Code	Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN
Rip Cord	Nylon Yarn
Drain Wire	Tinned copper
Sheath Material	Halogen Free, Flame Retardant (HFFR/LSZH)
Sheath Color	Purple
Standard Put Up Length	305, 500 meters

PHYSICAL & MECHANICAL CHARACTERISTICS

Operating Temperature (°C)	-30°C to +60°C
Screen type	FTP
Nominal Sheath Thickness (mm)	0.49 ± 0.05 mm
Nominal Overall Diameter (mm)	7.2 – 7.8 mm
Max. Pull Tension (N)	199
Min. Bend Radius (install) (mm)	73

TRANSMISSION PERFORMANCE

Frequency (MHz)	Attenuation (dB)	Return Loss(dB)	NEXT (dB)	PSNEXT (ns/100m)	MIN. ACR	MIN. PACR	MIN. ACRF
1	2.2	19	75.2	72.0	73.0	70.0	67
4	3.9	22	66.2	63.2	62.4	59.4	55
10	6.0	24	60.0	57.2	54.3	51.3	47
16	7.4	24	57.0	54.1	49.7	46.7	43.8
31.25	10.4	23.5	52.5	49.8	42.3	39.3	38.0
62.5	15.0	21.4	48.0	45.3	33.3	30.3	32.0
100	19.0	20.0	45.2	42.2	26.0	23.0	27
125	21.4	19.2	43.5	40.7	22.2	19.2	26.0
200	27.5	18	40.5	37.7	13.0	10.2	21
250	31.0	17.2	39.2	36.2	8.2	5.1	20
300	34.2	17.2	38.0	35.0	3.8	0.8	18.5
500	45.2	17.2	34.5	31.7	-10.2	-13.8	13



ELECTRICAL CHARACTERISTICS

Conductor Resistance (Ohm/100m)	≤ 7.72 Ω/100m
Mutual Capacitance (pF/m)	≤ 5.8 pF/m
Impedance (Ohm)	100 ± 15
Velocity of Propagation (%)	65 – 70 %
Maximum Delay Skew (N)s/100m)	46
Max. Operating Voltage (Volts RMS)	300 V (Vrms)

STANDARD REFERENCES

EN 50290-2
ANSI/TIA/EIA-568-C2
ISO 11801
IEC 61034, IEC 60332-1
IEC 60754-1 & 2
RoHS Directives

BELFAST ACCREDITED BY

