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Building Networks for People

CAT 6 TWISTED PAIR ARMORED CABLE

APPLICATION

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250 MHz. Cable will be compliant to TIA/EIA-568-C.2 channel performance



CONSTRUCTION

Conductor:	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter:	23 AWG
Insulation:	Polyethylene
Rip Cord:	Yes
Inner Jacket:	PVC - GREY
Thickness of Inner Jacket:	0.65 to 0.70mm
Armouring:	Aluminium Wire
Size of Wire:	0.80mm
Sequential Marking:	At Every Meter
Temperature Rating:	-20° to + 60°c
Outer Jacket:	FR PVC - Black
Thickness of Outer Jacket:	0.85mm (Nom.)
Colour of Jacket :	Black
Approximate OD:	9.50 mm
Filler:	HDPE

ELECTRICAL PROPERTIES

Conductor Resistance (DC):	93.5 Ω/1000 mtr @20°c Max
Resistance Unbalance:	5% Max
Mutual Capacitance:	5.6 nf/100 mtr Max
CapacitanceUnbalance Pair/Ground :	330PF/100M Max
Propagation Delay Skew:	536 nS/100M
NVP:	69%
Impedance:	100±15% Ω
Worst Case cable skew:	45ns/100m

COLOR CODE

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

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TRANSMISSION CHARACTERISTICS

FREQ (MHz)	ATTN (dB/100m) max.	NEXT (dB) min.	PSNEXT (dB) min.	ACRF (dB @ 100 m) min.	PSACRF (dB @ 100 m) min	RETURN LOSS (dB/100m)
1	2.1	65	62	63	60.3	19
4	4	63	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54	43.3	40.3	19
16	8	53.2	50.6	39.2	36.2	18
20	9	51.6	49	37.2	34.2	17.5
25	10.1	50	47.3	35.3	32.3	17
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14
100	21.3	39.9	37.1	23.3	20.3	12
200	31.5	34.8	31.9	17.2	14.2	9
250	35.9	33.1	30.2	15.3	12.3	8

CONNECTION SYSTEM

Generally confirming to
EIA/TIA 568-C.2 and IEC/ISO 11801 Channel Performance

ORDERING INFORMATION

Part Code	Description
NCB-C6UBLKR-305-A	CAT6 23AWG Twisted Pair Armored Cable -305M

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