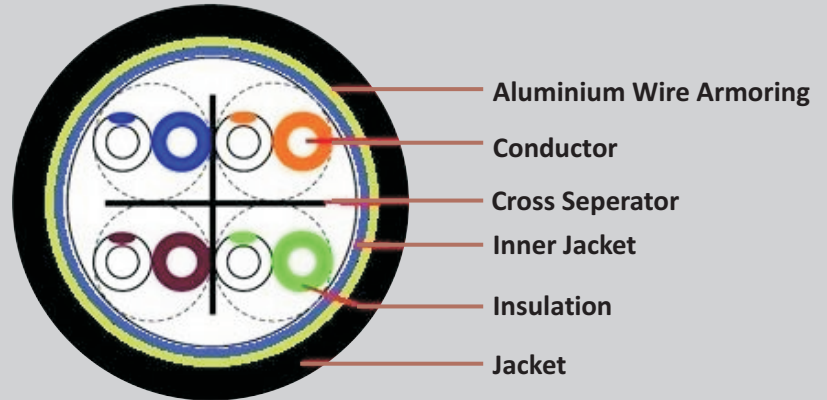


**APPLICATION**

Enhanced performance cable for transmission of high speed data 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 up to 70 meter



**CONSTRUCTION**

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

◆ **ELECTRICAL PROPERTIES**

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

◆ **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

✦ **TRANSMISSION CHARACTERISTICS 70mts CHANNEL**

FREQ (MHz)	ATTN (dB) max.	NEXT (dB) min.	PSNEXT (dB) min.	ACRF (dB) min.	PSACRF (dB) min	RETURN LOSS (dB)
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

✦ **ORDERING INFORMATION**

Part Code	Description
NCB-C6UBLKR-305-A	CAT6 23AWG Twisted Pair Armored Cable with FR PVC Outer Jacket-305M