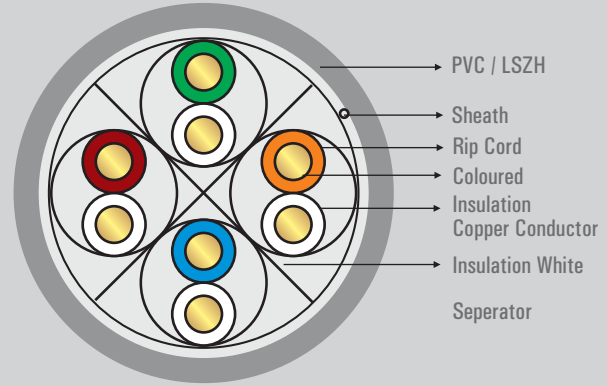




### APPLICATION

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 TIA/EIA-568-C.2 Category 6A  
ISO 1180 1-2 co2 Class E.  
Exceeds all requirements for IEE 802.3an



### CONSTRUCTION

- Conductor: **23 AWG Solid bare Copper**
- Insulation: **High Density Polyethylene**
- Pairs: **2 Insulated conductors twisted together**
- Sheath: **PVC / LSZH**
- Cable Diameter: **8.0mm Nominal**
- Printing: **Each meter printed with sequential Length Counter**

### ✦ ELECTRICAL PROPERTIES

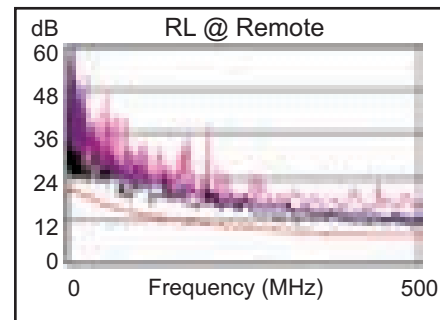
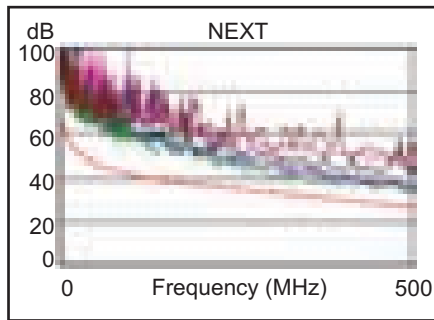
- Conductor Resistance:  $\leq 9.38\Omega/100m$
- Mutual Capacitance:  $< 5.6nF/100m$
- Resistance Unbalance: **5% Max**
- Delay Skew:  $< 25NS$
- NVP%: **68.2**

### ✦ COLOR CODE

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

### ✦ TRANSMISSION CHARACTERISTICS PER 100M

Frequency MHz	Max Attenuation (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
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 TIA/EIA 568-C.2

### ✦ PACKING

Available in Reels of 305M or Longer as per Customer Specific

### ✦ ORDERING INFORMATION

Part Code	Description
NCB-6AUGRYR-305	CAT6A UTP 23AWG Solid: 305M/Roll

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