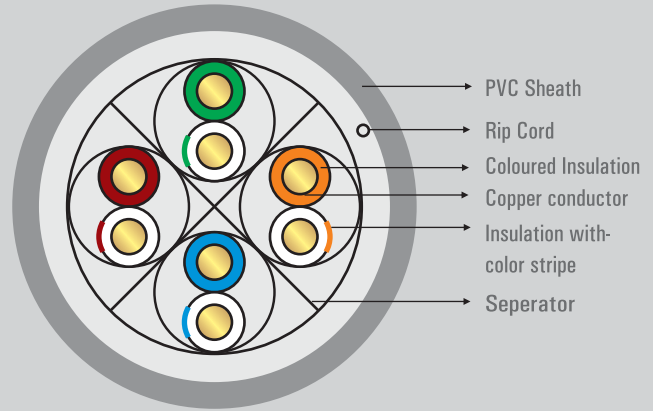


**APPLICATION**

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 250MHz.

**This cable well exceeds the requirements of ANSI/TIA-568-C.2 category6 ISO 11801 Class E**

Approval : UL Listed  & ETL Verified



**CONSTRUCTION**

- Conductor: **23 AWG Solid bare Copper (4 pair)**
- Insulation: **High Density Polyethylene**
- Pairs: **2 Insulated conductors twisted together**
- Sheath: **PVC**
- Cable Diameter: **6.1 mm nominal**
- Cable wt per Box: **13.6 Kgs nominal**
- Printing: **Each meter printed with sequential Length Counter**

◆ **ELECTRICAL PROPERTIES**

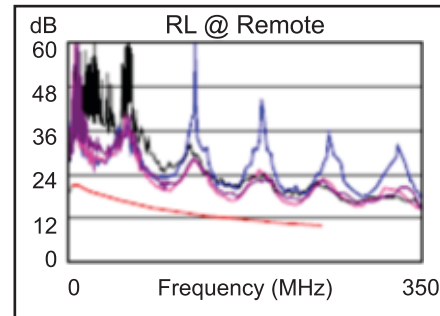
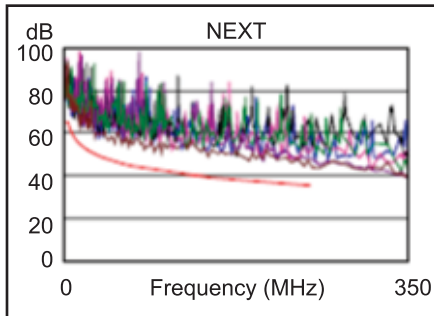
- Characteristic Impedance: **100 ± 15Ω**
- Conductor Resistance: **≤ 9.38 Ω /100m**
- Mutual Capacitance: **< 5.6nF/100m**
- Resistance Unbalance: **5% Max**
- Capacitance Unbalance: **330pF/100m**
- Delay Skew: **< 45nS**
- NVP (%): **69%**
- Operating Voltage: **72V**
- Dielectric Strength: **1.0KV dc or 0.75KV ac for 1min**

◆ **COLOR CODE**

PAIR NO	COLOR	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

### ◆ TRANSMISSION CHARACTERISTICS PER 100M

Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR (dB)
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.8
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5



### ◆ MECHANICAL PROPERTIES

Bending Radius: < 25.4mm at -20°C ± 1°C

Pulling Force: 11.5 Kg

Operating Temperature Range: -20°C to +70°C

Storage Temperature Range: 0°C to +50°C

### ◆ ORDERING INFORMATION

Part Code	Description
NCB-C6UGRYR-100	CAT6 UTP 23AWG Solid: 100M
NCB-C6UGRYR-305	CAT6 UTP 23AWG Solid: 305M

### ◆ CONNECTION SYSTEM

Compatible with all common systems according to

TIA/EIA 568-C.2 and ISO/IEC 11801 Class E

### ◆ PACKING

Reels of guaranteed 305m Length and an outer box containing two boxes of 305mts



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