

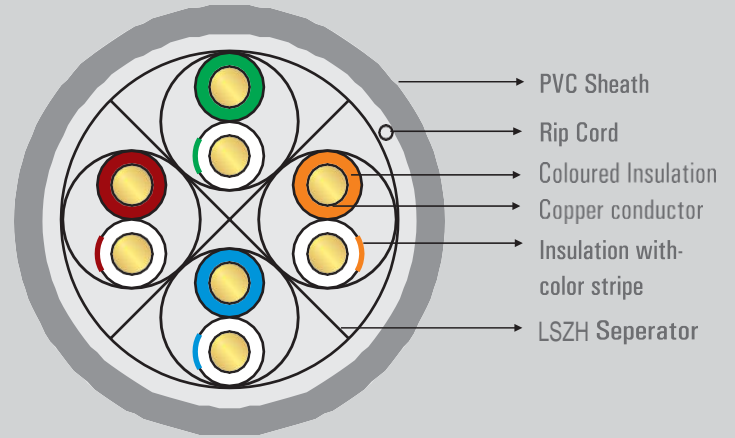
APPLICATION

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.

PRODUCT HIGHLIGHTS

Supports up to 500 MHz frequency Third party verified by Intertek Testing Services (ETL) ETL verified electrical transmission performance to the requirements of ANSI/TIA-568.2-D Cat6 and ISO/IEC 11801-1 Class E with 4-conductor channel

Standards Compliance: TIA/EIA-568-C.2, ISO/IEC 11801 Class E, IEEE 802.3 10 BASE-T, 100BASE-TX, 1000BASE-T, PoE, ETL verified ANSI/TIA-568.2-D Cat6 & ISO/IEC 11801-1 Class E Horizontal Cable Requirements.



CONSTRUCTION

- Conductor: **23 AWG Solid bare Copper**
- Insulation: **High Density Polyethylene Solid**
- Pairs: **2 Insulated conductors twisted together**
- Sheath: **FR-PVC/LSZH**
- Cable Diameter: **6.1mm±0.2mm**
- Printing: **Each meter printed with**

◆ **ELECTRICAL PROPERTIES**

- Conductor Resistance: **< 9.38Ω/100m**
- Mutual Capacitance: **< 5.6nF/100m**
- Resistance Unbalance: **5% Max**
- Capacitance Unbalance: **330pF/100m**
- Delay Skew: **< 45nS**

◆ **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 : < 4 X Cable Diameter at -20°C ± 1°C

Pulling Force : 11.5Kg

Operation Temperature Range : -20° to 70°C

Installation Temperature Range : 0° to +50°C

◆ **ORDERING INFORMATION**

Part Code	Description
NCB-C6UGRYR-305-E	CAT6 UTP 23AWG solid: 305M
NCB-C6UGRYR-305-LS-E	CAT6UTPLSZH 23AWG solid: 305M

* Available in other colors

◆ **PACKING**

Available in easy-pull Plane boxes/Reels of 305m Length