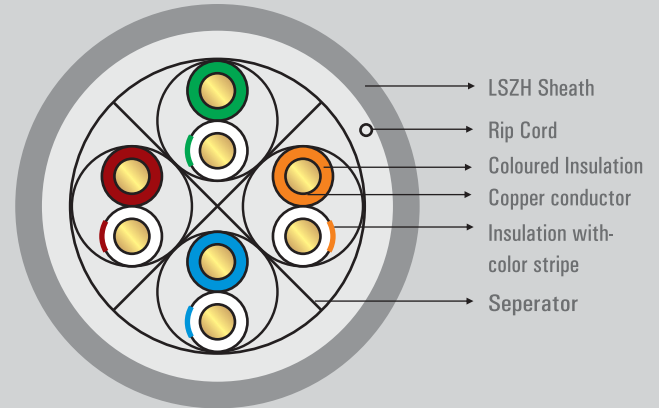


APPLICATION

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



CONSTRUCTION

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

◆ **ELECTRICAL PROPERTIES**

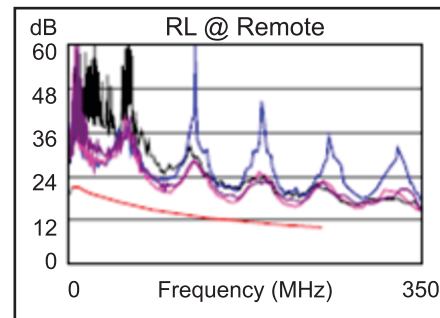
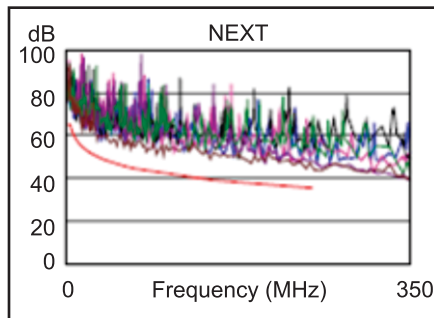
- Characteristic Impedance: **100 ± 15Ω**
- Conductor Resistance: **< 9.38 Ω /100m**
- Mutual Capacitance: **< 5.6nF/100m**
- Resistance Unbalance: **5% Max**
- Capacitance Unbalance: **330pF/100m**
- Delay Skew: **< 45nS**
- NVP: **69%**
- Operating Voltage: **72V**
- Dielectric Strength: **1.0KV dc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

◆ **COLOUR CODE**

PAIR NO	COLOUR	PAIR NO	COLOUR
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

✦ CONNECTION SYSTEM

Compatible with all common systems according to TIA/EIA 568-C.2 and ISO/IEC 11801



PACKING

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

✦ ORDERING INFORMATION

Part Code	Description
NCB-C6UGRYR-305-LS	Solid Cable Cat6, 4pair, UTP-LSZH, 305M

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