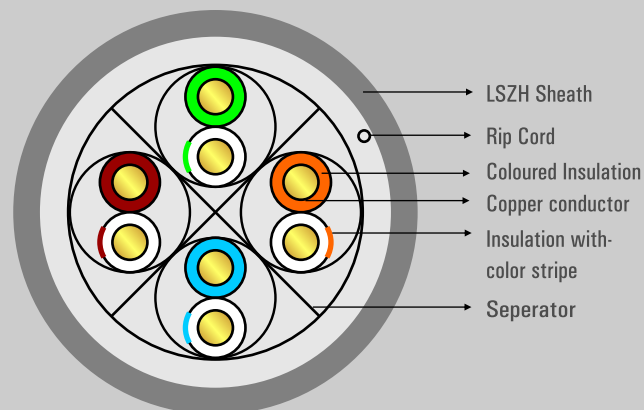


APPLICATION

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
Insulation diameter:	1.45mm
Pairs:	2 Insulated conductors twisted together
Sheath:	LSZH
Cable Diameter:	6.1 mm nominal
Printing:	Each meter printed with sequential Length Counter
Jacket Nominal Wall Thickness:	0.50mm
Insulation Nominal Wall Thickness:	0.18mm
Cable Weight:	13.6kg/ Box

◆ ELECTRICAL PROPERTIES

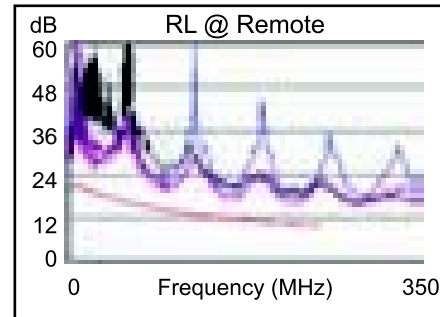
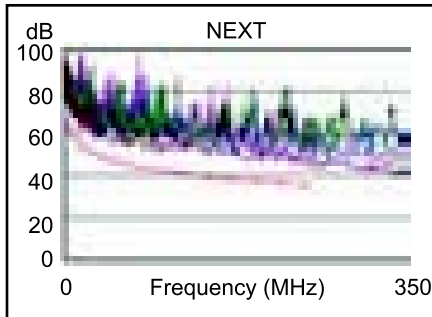
Characteristic Impedance:	100 ± 6Ω
Conductor Resistance:	< 9.38 Ω /100m
Insulation Resistance:	100 M Ω
Mutual Capacitance:	< 5.6nF/100m
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	< 45nS
NVP:	69%
Operating Voltage:	72V
Dielectric Strength:	1.0KV dc or 0.75KV ac for 1min
Propagation Delay:	537.6nS @ 100 Mhz

◆ 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
400	43.0	15.9	35.3	33.3	15.8	12.8	5.0	3.2
500	48.9	15.2	33.8	31.8	13.8	10.8	4.5	2.8
600	54.5	14.7	32.6	30.6	12.2	9.2	3.5	2.1



◆ MECHANICAL PROPERTIES

Bending Radius: < 25.4mm at -20°C ± 1°C
 Pulling Force: 11.5 Kg
 Operating Temperature Range: -20°C to +75°C
 Storage Temperature Range: 0°C to +50°C

◆ ORDERING INFORMATION

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

◆ 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



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