APPLICATION

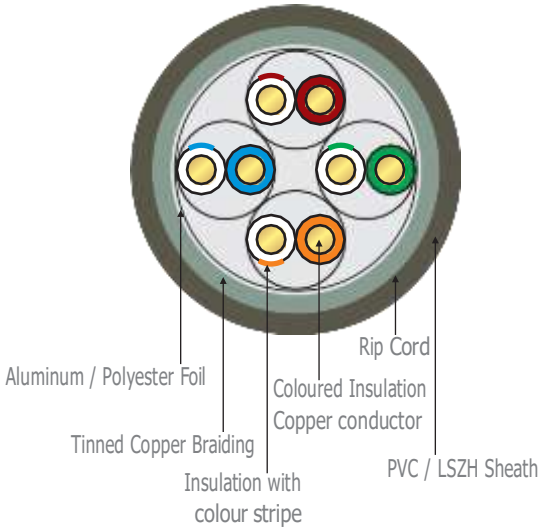
Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 100 MHz. Tinned Copper gives Protection against EMI and avoid signal loss with Higher Mechanical protection.

This cable well exceeds the requirements of TIA/EIA-568-C.2



CONSTRUCTION

Conductor:	**24 AWG Solid bare Copper**
Insulation:	**High Density Polyethylene**
Pairs:	**2 Insulated conductors twisted together**
Shield:	**Aluminum / Polyester Foil**
	Tinned copper Braiding
Sheath:	**PVC / LSZH**
Cable Diameter:	**6.0 mm nominal**
Printing:	**Sequential marking at every meter**



COLOR CODE

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

ELECTRICAL PROPERTIES

Conductor Resistance:	**≤9.60 Ω/100m**
Insulation Resistance:	**100 M Ω**
Mutual Capacitance:	**< 5.6nF/100m**
Resistance Unbalance:	**5% Max**
Capacitance Unbalance:	**330pF/100m**
Delay Skew:	**< 50nS**

TRANSMISSION CHARACTERISTICS PER 100M

Frequency MHz	Inse (d	NEXT (dB)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	Return Loss (dB/100m)
	Max	Min	Min	Min	Min	Min
1	2.2	60	57.0	57.4	54.4	17.0
4	4.5	53.5	50.5	45.4	42.4	17.0
8	6.3	48.6	45.6	39.3	36.3	17.0
10	7.1	47.0	44.0	37.4	34.4	17.0
16	9.1	43.6	40.6	33.3	30.3	17.0
20	10.2	42.0	39.0	31.4	28.4	17.0
25	11.4	40.3	37.3	29.4	26.4	16.0
31.25	12.9	38.7	35.7	27.5	24.5	15.1
62.5	18.6	33.6	30.6	21.5	18.5	12.1
100	24.0	30.1	27.1	17.4	14.4	10.0

MECHANICAL PROPERTIES

Bending Radius: 8xCable Diameter at –20°C ± 1°C

Pulling Force: 9.0 Kgs

Temperature Range: –20°to +75°C

CONNECTION SYSTEM

Compatible with all common systems according to TIA/EIA 568-C.2

PACKING

Available in 305meter coils or as per customer requirement

ORDERING INFORMATION

Part Code	Description
NCB-5ESGRYR-305	CAT5e SFTP 24AWG Solid: 305M
NCB-5ESGRYR-305-LS	CAT5e LSZH SFTP 24AWG Solid: 305M

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