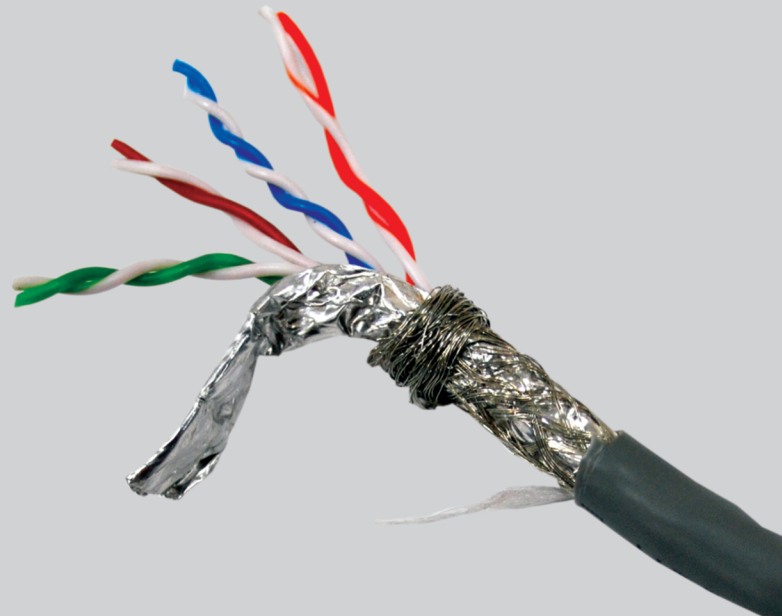


APPLICATION

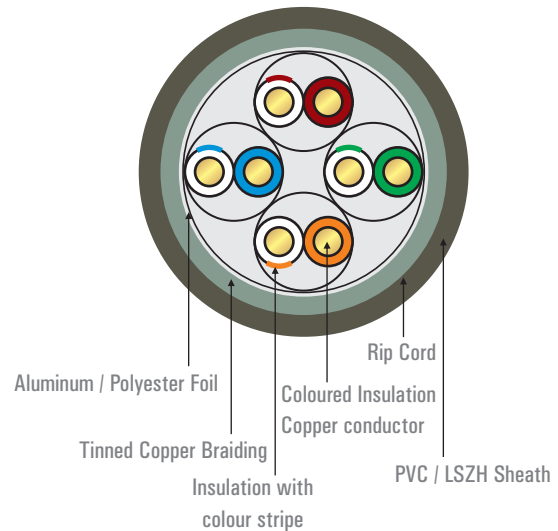
Enhanced performance cable for transmission of high speed data, digital and analogue voice and video(RGB) signals on LANs. Supports Gigabit Ethernet(1000 baseT) standard. Operates at bandwidth of 100 MHz. Tinned Copper gives Protection against EMI and avoid signal loss with Higher Mechanical protection.

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:	< 45nS

✦ TRANSMISSION CHARACTERISTICS PER 100M

Frequency MHz	Insertion Loss (dB/100m) Max	NEXT (dB) Min	PSNEXT (dB/100m) Min	ACRF (dB/100m) Min	PSACRF (dB/100m) Min	Return Loss (dB/100m) 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: < 8 x Cable 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