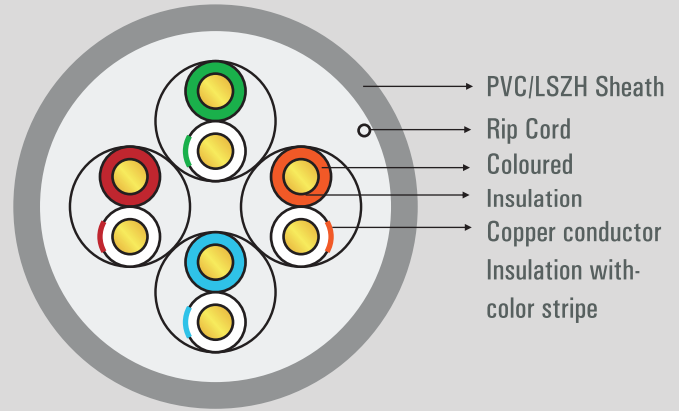


**APPLICATION**

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 up to 100MHz. This cable well exceeds the requirements of TIA/EIA-568-C.2 and ISO/IEC 11801



**CONSTRUCTION**

- Conductor: **24 AWG Solid bare Copper (4 pair)**
- Insulation: **High Density Polyethylene**
- Insulation Diameter: **1.04mm**
- Pairs: **2 Insulated conductors twisted together**
- Sheath: **PVC**
- Cable Diameter: **5.0 mm nominal**
- Printing: **Each meter printed with sequential Length Counter**

◆ **ELECTRICAL PROPERTIES**

- Characteristic Impedance: **100 ± 15 Ω**
- 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**

◆ **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	65.3	62.3	63.8	60.8	63.3	60.3
4	4.1	23.0	56.3	53.3	51.8	48.8	52.2	49.2
8	5.8	24.5	51.8	48.8	45.7	42.7	46.0	43.0
10	6.5	25.0	50.3	47.3	43.8	40.8	43.8	40.8
16	8.2	25.0	47.2	44.2	39.7	36.7	39.0	36.0
20	9.3	25.0	45.8	42.8	37.8	34.8	36.5	33.5
25	10.4	24.3	44.3	41.3	35.8	32.8	33.9	30.9
31.25	11.7	23.6	42.9	39.9	33.9	30.9	31.2	28.2
62.5	17.0	21.5	38.4	35.4	27.9	24.9	21.4	18.4
100	22.0	20.1	35.3	32.3	23.8	20.8	13.3	10.3

✦ **MECHANICAL PROPERTIES**

Bending Radius: < 25.4mm at -20°C ± 1°C

Pulling Force: 9Kg

Operating Temperature Range: -20°C to +70°C

Storage Temperature Range: 0°C to +50°C

✦ **ORDERING INFORMATION**

Part Code	Description
NCB-5EUGRYR-100	CAT5e UTP 24AWG Solid: 100M

✦ **CONNECTION SYSTEM**

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

✦ **PACKING**

Available in easy-pull boxes of guaranteed 100m length