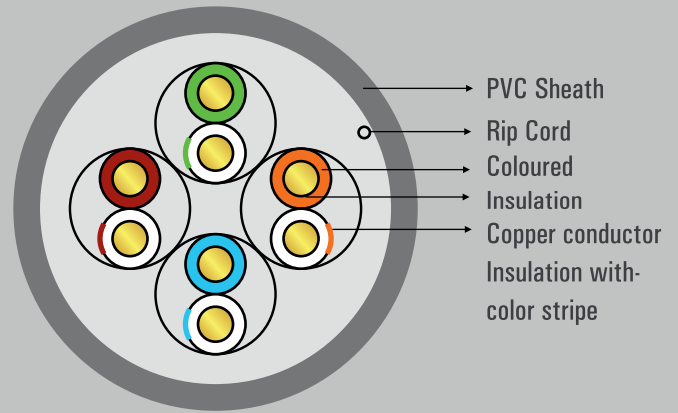


APPLICATION

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

Approval: UL Listed 



CONSTRUCTION

Conductor:	24 AWG Solid bare Copper (4 pair)
Insulation:	High Density Polyethylene
Pairs:	Twisted into 2 core
Sheath:	PVC
Cable Diameter:	4.8 ± 0.30mm
Printing:	Each meter printed with sequential Length Counter

◆ ELECTRICAL PROPERTIES

Characteristic Impedance:	100 ± 15% Ω
Conductor Resistance (DC):	≤ 10.8 Ω/100m
Mutual Capacitance:	< 5.6nF/100m
Resistance Unbalance:	5% Max
Capacitance Unbalance:	330pF/100m
Delay Skew:	< 45nS
NVP:	69%
Propagation Delay Skew:	536nS/100M

◆ 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

◆ HIGH FREQUENCY ELECTRICAL PARAMETERS

Frequency MHz	Insertion Loss (48/100m) 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: 25.4mm at $-20^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Pulling Force: 9Kg

Operating Temperature Range: -20°C to $+60^{\circ}\text{C}$

Storage Temperature Range: 0°C to $+50^{\circ}\text{C}$

◆ ORDERING INFORMATION*

Part Code	Description
NCB-5EUGRYR-305	CAT5e UTP 24AWG Solid: 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 of 305m length



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