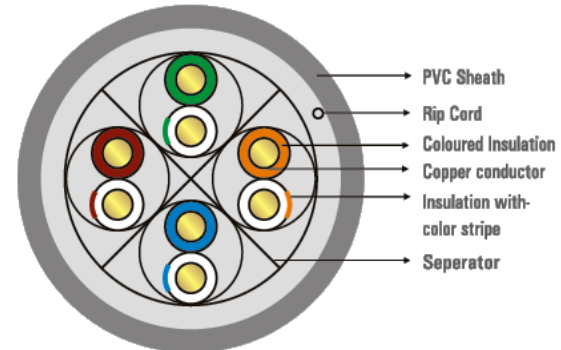


Enhanced performance cable for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 BaseT) standard. Operates at bandwidth of 250 MHz. Meet the requirements of ANSI/TIA-568.C-2

Construction:

| | |
|----------------------------|---|
| Conductor | Solid Bare Copper |
| Nominal Conductor Diameter | 23 AWG |
| Insulation | High Density Polyethylene |
| Pairing | 2 Insulated conductors twisted together |
| Separator | LSZH |
| Pair No. | Color Code: |
| 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 |
| Outer Sheath | PVC-CMR, Grey Color |
| Approximate OD(Nominal) | 6.1 mm |
| Fire Rating | CMR Rated as per UL 1666 |
| Sequential Marking | At Every Meter |
| Rip Cord | Yes |



Electrical Parameter

Characteristic Impedance: $100 \pm 15\Omega$
 Conductor Resistance: $\leq 9.38\Omega / 100m$
 Resistance Unbalance: 5% Max.
 Mutual Capacitance: 5.6 nF/100m
 Capacitance Unbalance: 330pF/100m
 Delay Skew: < 45nS

Mechanical Properties

Bending Radius : < 4 x Cable Diameter at $20^\circ C \pm 1$
 Pulling force: 11.5 Kg
 Operational Temperature: -20° to $+75^\circ C$
 Installation Temperature: 0° to $50^\circ C$

Electrical Characteristics meet ANSI/TIA 568.C-2 90m Permanent Link

| FREQ (MHz) | Insertion Loss(dB) Max. | NEXT (dB) Min. | RL (dB) Min. | PS NEXT (dB) Min. | ACRF (dB) Min. | PS. ACRF (dB) Min |
|------------|-------------------------|----------------|--------------|-------------------|----------------|-------------------|
| 1 | 1.9 | 65 | 19.1 | 62 | 64.2 | 61.2 |
| 4 | 3.5 | 64.1 | 21 | 61.8 | 52.1 | 49.1 |
| 8 | 5 | 59.4 | 21 | 57 | 46.1 | 43.1 |
| 10 | 5.5 | 57.8 | 21 | 55.5 | 44.2 | 41.2 |
| 16 | 7 | 54.6 | 20 | 52.2 | 40.1 | 37.1 |
| 20 | 7.9 | 53.1 | 19.5 | 50.7 | 38.2 | 35.2 |
| 25 | 8.9 | 51.5 | 19 | 49.1 | 36.2 | 33.2 |
| 31.25 | 10 | 50 | 18.5 | 47.5 | 34.3 | 31.3 |
| 62.5 | 14.4 | 45.1 | 16 | 42.7 | 28.3 | 25.3 |
| 100 | 18.6 | 41.8 | 14 | 39.3 | 24.2 | 21.2 |
| 200 | 27.4 | 36.9 | 11 | 34.3 | 18.2 | 15.2 |
| 250 | 31.1 | 35.3 | 10 | 32.7 | 16.2 | 13.2 |

PACKAGING - 305M - Reel

ORDERING INFORMATION

| | |
|---------------------|---------------------|
| NCB-C6UGRYR-305-CMR | Cat6 UTP Cable 305m |
|---------------------|---------------------|