



U/UTP CAT 6

CMR Riser 4 - Pair Solid LAN CABLE

APPLICATIONS

IEE 802.3 1000Base-T;100Base-T;10Base-T
IEE 802.5: 4/6 Mbps Token Ring
155 / 662 Mbps ATM
Gigabit Ethernet

FIRE RATING

CMR: UL 1666

Standards Compliance

TIA/EIA 568-C.2 CAT 6
ISO/IEC 11081
UL 444
NEMA WC-66
KS C 3342
RoHS Compliant

Mechanical Properties

Bending Radius: $\geq 4 \times OD$ (without load)
Temperature range:
During operation: $-20^{\circ}\text{C} \sim 75^{\circ}\text{C}$
During installation: $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Voltage Rating (MAX): DC 300V

Electrical Properties

(at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
DC resistance: Max $9.38\Omega / 100\text{ m}$ at 20°C
Resistance unbalance: Max 5% at 20°C
Mutual Capacitance: Max $5.6\text{ nF} / 100\text{ m}$ at 1kHz
Characteristic impedance: $(100 \pm 15)\Omega$ at 1 ~ 250 MHz
Nominal Velocity of Propagation: 69%
Propagation delay: $\leq 535\text{ ns} / 100\text{ m}$
Delay Skew: $\leq 45\text{ ns} / 100\text{ m}$

Construction

- **Conductors**
23 AWG solid bare annealed copper
OD: $\varnothing 0.55 \pm 0.005\text{ mm}$
- **Insulation**
Polyethylene
OD: $\varnothing 0.95 \pm 0.05\text{ mm}$
- **Twisting**
4 twisted pairs, 2 single conductors paired
Twisted pair color code:
1: Blue + White/Blue
2: Orange + White/Orange
3: Green + White/Green
4: Brown + White/Brown
- **Cable Lay-up**
4 pairs with different pitches
- **Rip Cord**
Applied longitudinally under jacket (optional)
- **Outer Jacket**
CMR
- **Outer Diameter**
 $6.1\text{ mm} \pm 0.2\text{ mm}$ (0.240")



Copper Conductor
Insulation

Rip Cord(optional)

Jacket

