

Category 6 FTP Cable (Solid)

Standards:

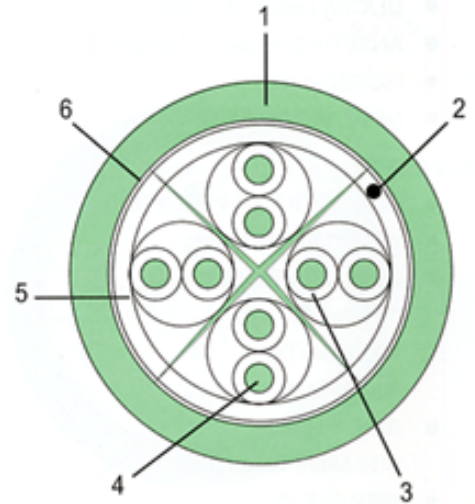
- Shielded Twisted Pair Category 6 CM, CMR, LSOH
- ANSI/EIA/TIA 568B
- UL 444, 444(13), EN 50173, EN 50167(LSOH)
- UL 1581(CM) UL 1666(CMR)

Application:

- High Speed Horizontal Cabling
- 100 Mbps TPDDI
- 1000 Base-T
- 622 Mbps ATM
- IEEE 802.3
- IEEE 802.5
- DIGITAL VIDEO etc.
- Gigabit Ethernet

Construction:

1. PVC jacket
2. Drain wire
3. HDPE insu
4. bare cu cond
5. Mylar tape
6. AL/PET tape



Construction

| Type | | No.of Pairs | Conductor | Insulation Thickness | | Outer Diameter | | Jacket | Insulation |
|------------------|-----|-------------|-----------|----------------------|--------|----------------|------|--------|------------|
| | | | | mm | inch | Mm | inch | | |
| Horizontal Cable | CM | 4 | 24AWG | 0.25 | 0.0098 | 7.2 | 0.28 | PVC | HDPE |
| | CMR | 4 | (0.575mm) | 0.25 | 0.0098 | 7.2 | 0.28 | FRPVC | FRHDPE |

Electrical Characteristics:

| Item | Specification |
|-----------------------|---|
| Conductor Resistance | 93.8 Ω /km 20°C Max |
| Mutual Capacitance | 5.6nF/100m Max |
| Resistance Unbalance | 5% Max. |
| Capacitance Unbalance | 330 pF/100m Max. |
| Impedance | $f \geq 100:100 \pm 15 \Omega$, $100 < f < 250:100 \pm 200 \Omega$ |

| Frequency MHz | Attenuation Max.dB/100m | Pr-Pr NEXT Min.dB \geq 100m | Power Sum NEXT Min.dB \geq 100m | ACR Min.dB | Pr-Pr FEXT Min.dB \geq 100m | Power Sum FELEXT Min.dB/100m |
|------------------|----------------------------|----------------------------------|--------------------------------------|------------|----------------------------------|---------------------------------|
| 0.772 | 1.8 | 76.0 | 74.0 | 74.2 | 70.0 | 67.0 |
| 1 | 2.0 | 74.3 | 72.3 | 72.3 | 67.8 | 64.8 |
| 4 | 3.8 | 65.3 | 63.3 | 61.5 | 55.7 | 52.7 |
| 8 | 5.4 | 60.8 | 58.8 | 55.4 | 49.7 | 46.7 |
| 10 | 6.0 | 59.3 | 57.3 | 53.3 | 47.8 | 44.8 |
| 16 | 7.7 | 56.3 | 54.3 | 48.6 | 43.7 | 40.7 |
| 20 | 8.6 | 54.8 | 52.8 | 46.2 | 41.7 | 38.7 |
| 25 | 9.6 | 53.3 | 51.3 | 43.7 | 39.8 | 36.8 |
| 31.25 | 10.8 | 51.9 | 49.9 | 41.1 | 37.9 | 34.9 |
| 62.5 | 15.7 | 47.4 | 45.4 | 31.7 | 31.8 | 28.8 |
| 100 | 20.2 | 44.3 | 42.3 | 24.1 | 27.8 | 24.8 |
| 200 | 29.8 | 39.8 | 37.8 | 10.0 | 21.7 | 18.7 |
| 250 | 33.8 | 38.3 | 36.3 | 4.6 | 19.8 | 16.8 |