

Category 6 FT-4 & FT-6 550MHz Data Communication Cable



APPLICATION:

Category 6 PVC Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. The cable is rated for use at 550MHz and is rated CMR.

CONDUCTORS:

- 23AWG solid bare copper

INSULATION:

- **FT-4:** Polyethylene (PE)
- **FT-6:** Fluorinated ethylene propylene (FEP)

CABLING:

- 4 twisted pairs are cabled together and each pair is twisted in different lays to minimize cross-talk interferences. The pairs are separated from each other by an X divider

JACKET:

- **FT-4:** Polyvinyl chloride (PVC)
- **FT-6:** Flame retardent low smoke plenum rated

STANDARDS:

- UL Listed or ETL verified
- UL rated CMR or CMP
- c(UL) CMR or CMP
- UL 444, 1666
- TIA / EIA-568

| Part Number | Nominal Overall Diameter | Approx. Weight | Mutual Capacitance |
|---|--------------------------|----------------|--------------------|
| | inches | lbs/kft | Nf/100m |
| FT-4: CAT6 (UTP): Non-Plenum: 23 AWG 4 Pairs | | | |
| TEL23-4PC6-PVC-UL | 0.24 | 30 | 5.4 |
| FT-6: CAT6 (UTP): Plenum: 23 AWG 4 Pairs | | | |
| TEL23-4PC6-PLEN-UL | 0.24 | 33 | 5.4 |

| Performance | | | | | |
|-------------|-----------|--------------------------|-------------------------|---------------------|---------------|
| Frequency | ACR, min. | Characteristic Impedance | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | $\Omega/100m$ | dB/100m | dB/100m | dB/100m |
| 1.0 | 72.3 | 100 \pm 15% | 2.0 | 74.3 | 72.3 |
| 4.0 | 61.5 | 100 \pm 15% | 3.8 | 65.3 | 63.3 |
| 10.0 | 53.3 | 100 \pm 15% | 6.0 | 59.3 | 57.3 |
| 16.0 | 48.6 | 100 \pm 15% | 7.6 | 56.2 | 54.2 |
| 20.0 | 46.3 | 100 \pm 15% | 8.5 | 54.8 | 52.8 |
| 25.0 | 43.8 | 100 \pm 15% | 9.5 | 53.3 | 51.3 |
| 31.3 | 41.2 | 100 \pm 15% | 10.7 | 51.9 | 49.9 |
| 62.5 | 32.0 | 100 \pm 15% | 15.4 | 47.4 | 45.4 |
| 100.0 | 24.5 | 100 \pm 15% | 19.8 | 44.3 | 42.3 |
| 200.0 | 10.8 | 100 \pm 15% | 29.0 | 39.8 | 37.8 |
| 250.0 | 5.5 | 100 \pm 15% | 32.8 | 38.3 | 36.3 |

All values are nominal and subject to correction



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