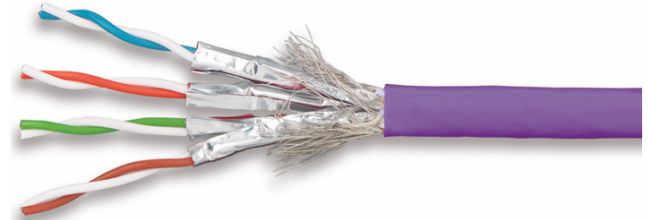
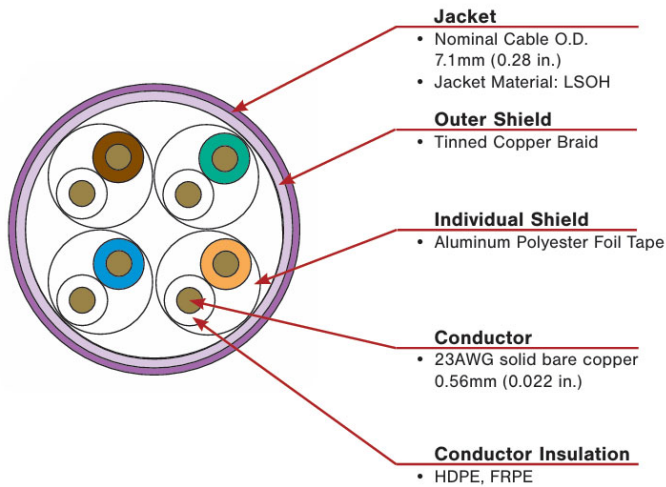


CAT7 FTP 23AWG 600MHZ CABLE

TN5008C723600M



Product Description

TEXA Network’s Category 7 600 MHz cable perfectly complements the performance of our TERA outlets. TEXA Network cable exceeds all ISO/IEC requirements for category 7/class F transmission performance beyond 600 MHz. A fully shielded cable with individual foils around each pair coupled with an outer braid provides perfect immunity from outside interferences. In addition, the cable jacket has been qualified for mechanical reliability in high temperature environments up to 75°C. In PoE remote power applications, this cable can be installed in environments up to 60°C and will not experience degradation due to heat rise inside the cable bundle. TEXA Network cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted solution.

CABLE FEATURES

- S/FTP
- Nominal jacket OD: 7.1mm (0.28 in.)
- 23 AWG 0.57mm (0.022 in.) solid (non-tinned) copper
- Sequential measurement markings on jacket
- Pairs individually shielded with aluminum-polyester foil
- Overall tinned-copper braid
- 75° C temperature rating

APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power over HDBaseT (PoH)

ELECTRICAL SPECIFICATIONS

PHYSICAL PROPERTIES

| | |
|---------------------------------|------------------------------------------------|
| DC Resistance | <7.32 Ω/100m |
| DC Resistance Unbalance | 2% |
| Mutual Capacitance | 5.6 nF/100m |
| Capacitance Unbalance | 2% |
| Characteristic Impedance (ohms) | 1-100 MHz: 100 ± 15% 100-600 MHz: 100 ± 22% |
| NVP | 72% |
| TCL | 40-10 log(f/100) dB |
| Delay Skew | ≤25ns/100m |

| | |
|--------------------------|---------------------------|
| Pulling Tension (max) | 80N (18 lbf) |
| Bend Radius (min) | 50mm (2.0 in.) |
| Installation Temperature | 0 to 75°C (+32 to 167°F) |
| Storage Temperature | -20 to 75°C (-4 to 167°F) |
| Operating Temperature | -20 to 75°C (-4 to 167°F) |

TRANSMISSION PERFORMANCE

| Freq. (MHz) | Insertion Loss (Max. dB) | | NEXT (Min. dB) | | PS NEXT (dB) | | ACR-N (dB) | | PSACR-F (dB) | | ACR-F (dB) | | PS ACR-F (dB) | | Return Loss (dB) | |
|-------------|--------------------------|------|----------------|-------|--------------|-------|------------|-------|--------------|-------|------------|-------|---------------|-------|------------------|------|
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| 1.0 | 2.1 | 1.8 | 78.0 | 103.7 | 75.0 | 110.0 | 75.9 | 101.9 | 72.9 | 108.2 | 78.0 | 94.8 | 75.0 | 102.3 | 20.0 | 32.7 |
| 4.0 | 3.7 | 3.4 | 78.0 | 106.8 | 75.0 | 117.2 | 74.3 | 103.4 | 71.3 | 113.8 | 78.0 | 90.5 | 75.0 | 91.8 | 23.0 | 27.4 |
| 10.0 | 5.8 | 5.3 | 78.0 | 111.6 | 75.0 | 121.1 | 72.2 | 106.3 | 69.2 | 115.8 | 78.0 | 109.0 | 75.0 | 116.2 | 25.0 | 35.9 |
| 16.0 | 7.3 | 6.8 | 78.0 | 113.9 | 75.0 | 121.9 | 70.7 | 107.0 | 67.7 | 115.1 | 78.0 | 107.0 | 75.0 | 114.5 | 25.0 | 36.6 |
| 20.0 | 8.2 | 7.6 | 78.0 | 110.2 | 75.0 | 117.4 | 69.8 | 102.5 | 66.8 | 109.7 | 78.0 | 115.7 | 75.0 | 117.7 | 25.0 | 36.4 |
| 31.25 | 10.3 | 9.7 | 78.0 | 112.4 | 75.0 | 119.5 | 67.7 | 102.7 | 64.7 | 109.8 | 75.4 | 106.8 | 75.0 | 109.8 | 23.6 | 39.2 |
| 62.5 | 14.6 | 13.9 | 78.0 | 114.0 | 75.0 | 121.6 | 63.4 | 100.1 | 60.4 | 107.7 | 69.4 | 102.4 | 75.0 | 109.8 | 21.5 | 33.6 |
| 100.0 | 18.5 | 17.7 | 78.0 | 108.3 | 75.0 | 117.5 | 59.5 | 90.6 | 56.5 | 99.8 | 65.3 | 100.8 | 75.0 | 103.0 | 20.1 | 37.8 |
| 200.0 | 26.5 | 25.2 | 73.9 | 112.5 | 70.9 | 118.7 | 47.4 | 87.3 | 44.4 | 93.6 | 59.3 | 85.9 | 75.0 | 90.9 | 18.0 | 38.9 |
| 250.0 | 29.7 | 28.3 | 72.4 | 108.6 | 69.4 | 115.0 | 42.7 | 80.3 | 39.7 | 86.8 | 57.3 | 88.2 | 75.0 | 89.5 | 17.3 | 35.2 |
| 300.0 | 32.7 | 31.1 | 71.2 | 106.2 | 68.2 | 112.2 | 38.6 | 75.1 | 35.6 | 81.1 | 55.8 | 84.7 | 75.0 | 90.1 | 17.3 | 36.9 |
| 400.0 | 38.0 | 36.1 | 69.4 | 108.0 | 66.4 | 116.9 | 31.4 | 71.9 | 35.6 | 80.8 | 53.3 | 71.9 | 75.0 | 76.8 | 17.3 | 36.2 |
| 500.0 | 42.8 | 40.4 | 67.9 | 96.1 | 64.9 | 103.4 | 25.2 | 55.7 | 22.2 | 62.9 | 51.3 | 79.6 | 75.0 | 83.6 | 17.3 | 32.8 |
| 600.0 | 47.1 | 44.4 | 66.7 | 97.0 | 63.7 | 101.8 | 19.6 | 52.5 | 16.6 | 57.4 | 49.7 | 69.9 | 75.0 | 71.7 | 17.3 | 34.8 |
| 700.0 | - | 48.2 | - | 98.8 | - | 106.0 | - | 50.6 | - | 57.8 | - | 59.9 | - | 61.0 | - | 33.5 |
| 800.0 | - | 51.8 | - | 94.6 | - | 103.7 | - | 42.8 | - | 51.9 | - | 60.9 | - | 62.9 | - | 29.9 |
| 850.0 | - | 53.9 | - | 82.2 | - | 94.7 | - | 28.4 | - | 40.8 | - | 48.1 | - | 55.2 | - | 31.0 |

Part Number

(TN5008C723600M)