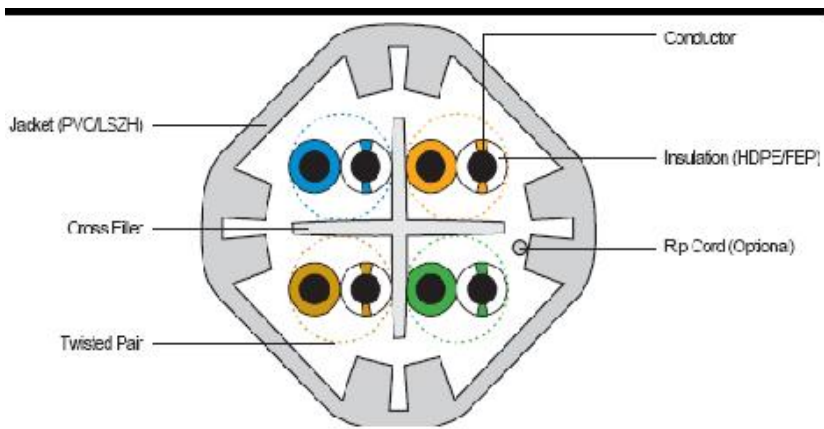


CAT 6A (10G) UTP CABLE



Description

- ETL Verified for guaranteed performance
- Capable of handling full broadband and baseband video signals
- High flame retardant grade of cable is protected propagation of fire (Plenum)
- Addition of balance requirements improves cable performance
- Every master reel is tested for electrical performance compliance
- Specialized print legend contains footage marking from 1000' to 0'. Metric from 305 to 0 and "DUAL MARKING" footage and metric
- Alien crosstalk and RoHS compliant

Application

- Horizontal Distribution & Backbone Cabling
- 4/16 Mbps Token Ring (IEEE 802.5)
- 10/100/1000/10G BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- ISDN, ASDL

Technical Details

| Item | Unit | PVC/LSZH | |
|---------------------------------|-----------|--------------------|--|
| Conductor DC Resistance | Ohms/100m | 9.38 | |
| Resistance Unbalance | % | 5 | |
| Mutual Capacitance | n/F/100m | 5.6 | |
| Capacitance Unbalance | pF/100m | 330 | |
| Characteristic Impedance | Ohms | 100±15% | |
| Propagation Delay | Ns/100m | 536@500MHZ | |
| Delay Skew | Ns | 45 | |
| Nominal Velocity of Propagation | % | 67 | |
| Operation Temperature | °C | -20~60 | |
| Storage Temperature | °C | -20~80 | |
| Bending Radius | | 5 x Cable Diameter | |
| Packaging Type | 1000' | Reel | |
| Packaging Weight | Lbs | 40 | |
| Conductor | | 23AWG S Copper | |
| Insulation | Inch | 1.05ΦHDPE | |
| Jacket | Inch | 8.5ΦPVC or LSZH | |

Approvals

- UL 444
- CMX – UL1581, IEC332-1
- CM – UL1685, IEC332-3
- CMR – UL1666
- CMP – UL910
- LSZH – IEC61034, IEC60754

| Frequency (MHZ) | Return Loss (RL); db | | | Insertion(Att); dB | | | NEXT; dB | | | PSNEXT; dB | | |
|-----------------|----------------------|-----------|------------|--------------------|-----------|------------|----------|-----------|------------|------------|-----------|------------|
| | Std | Cat6E PVC | Cat6E LSZH | Std | Cat6E PVC | Cat6E LSZH | Std | Cat6E PVC | Cat6E LSZH | Std | Cat6E PVC | Cat6E LSZH |
| 1 | 20.0 | 25.0 | 25.0 | 2.0 | 1.8 | 1.8 | 74.3 | 79.3 | 79.3 | 72.3 | 77.3 | 77.3 |
| 4 | 23.0 | 28.0 | 28.0 | 3.7 | 3.5 | 3.5 | 65.3 | 70.3 | 70.3 | 63.3 | 68.3 | 68.3 |
| 10 | 25.0 | 30.0 | 30.0 | 5.9 | 5.7 | 5.7 | 59.3 | 64.3 | 64.3 | 57.3 | 62.3 | 62.3 |
| 16 | 25.0 | 30.0 | 30.0 | 7.4 | 7.2 | 7.2 | 56.2 | 61.2 | 61.2 | 54.2 | 59.2 | 59.2 |
| 20 | 25.0 | 30.0 | 30.0 | 8.3 | 8.1 | 8.1 | 54.8 | 59.8 | 59.8 | 52.8 | 57.8 | 57.8 |
| 31.25 | 23.6 | 28.6 | 28.6 | 10.4 | 10.2 | 10.2 | 51.9 | 56.9 | 56.9 | 49.9 | 54.9 | 54.9 |
| 62.5 | 21.5 | 26.5 | 26.5 | 14.9 | 14.7 | 14.7 | 47.4 | 52.4 | 52.4 | 45.4 | 50.4 | 50.4 |
| 100 | 20.1 | 25.1 | 25.1 | 19.0 | 18.8 | 18.8 | 44.3 | 49.3 | 49.3 | 42.3 | 47.3 | 47.3 |
| 200 | 18.0 | 23.0 | 23.0 | 27.5 | 27.3 | 27.3 | 39.8 | 44.8 | 44.8 | 37.8 | 42.8 | 42.8 |
| 250 | 17.3 | 22.3 | 22.3 | 31.0 | 30.8 | 30.8 | 38.3 | 43.3 | 43.3 | 36.3 | 41.3 | 41.3 |
| 400 | 15.9 | 20.9 | 20.9 | 40.0 | 39.8 | 39.8 | 35.3 | 40.3 | 40.3 | 33.3 | 38.3 | 38.3 |
| 500 | 15.2 | 20.2 | 20.2 | 45.3 | 45.1 | 45.1 | 33.8 | 38.8 | 38.8 | 31.8 | 36.8 | 36.8 |

| Frequency (MHZ) | ELFEXT; dB | | | PSELFEXT; dB | | | PSANEXT; dB | | | PSAELFEXT; dB | | |
|-----------------|------------|-----------|------------|--------------|-----------|------------|-------------|-----------|------------|---------------|-----------|------------|
| | Std | Cat6E PVC | Cat6E LSZH | Std | Cat6E PVC | Cat6E LSZH | Std | Cat6E PVC | Cat6E LSZH | Std | Cat6E PVC | Cat6E LSZH |
| 1 | 67.8 | 77.8 | 77.8 | 64.8 | 74.8 | 74.8 | 67.0 | 72.0 | 72.0 | 67.0 | 77.0 | 77.0 |
| 4 | 55.8 | 65.8 | 65.8 | 52.8 | 62.8 | 62.8 | 67.0 | 72.0 | 72.0 | 66.2 | 76.2 | 76.2 |
| 10 | 47.8 | 57.8 | 57.8 | 44.8 | 54.8 | 54.8 | 67.0 | 72.0 | 72.0 | 58.2 | 68.2 | 68.2 |
| 16 | 43.7 | 53.7 | 53.7 | 40.7 | 50.7 | 50.7 | 67.0 | 72.0 | 72.0 | 54.1 | 64.1 | 64.1 |
| 20 | 41.8 | 51.8 | 51.8 | 38.8 | 48.8 | 48.8 | 67.0 | 72.0 | 72.0 | 52.2 | 62.2 | 62.2 |
| 31.25 | 37.9 | 47.9 | 47.9 | 34.9 | 44.9 | 44.9 | 67.0 | 72.0 | 72.0 | 48.3 | 58.3 | 58.3 |
| 62.5 | 31.9 | 41.9 | 41.9 | 28.9 | 38.9 | 38.9 | 65.6 | 70.6 | 70.6 | 42.3 | 52.3 | 52.3 |
| 100 | 27.8 | 37.8 | 37.8 | 24.8 | 34.8 | 34.8 | 62.5 | 67.5 | 67.5 | 38.2 | 48.2 | 48.2 |
| 200 | 21.8 | 31.8 | 31.8 | 18.8 | 28.8 | 28.8 | 58.0 | 63.0 | 63.0 | 32.2 | 42.2 | 42.2 |
| 250 | 19.8 | 29.8 | 29.8 | 16.8 | 26.8 | 26.8 | 56.5 | 61.5 | 61.5 | 30.2 | 40.2 | 40.2 |
| 400 | 15.8 | 25.8 | 25.8 | 12.8 | 22.8 | 22.8 | 53.5 | 58.5 | 58.5 | 26.2 | 36.2 | 36.2 |
| 500 | 13.8 | 23.8 | 23.8 | 10.8 | 20.8 | 20.8 | 52.0 | 57.0 | 57.0 | 24.2 | 34.2 | 34.2 |