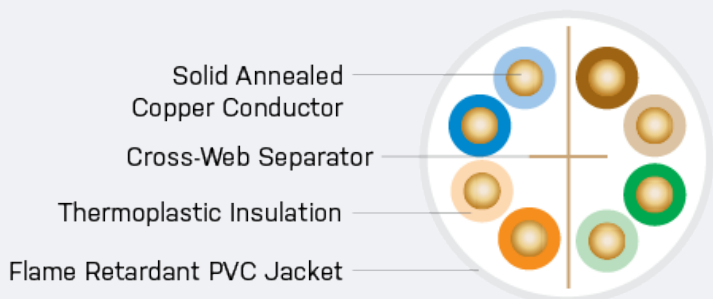
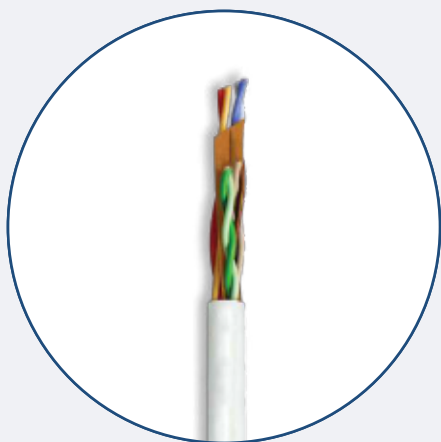


Category 6+ 550MHz UTP

U6550-004-xxxx



Description

- Capable of handling full broadband and baseband video signals
- Tight balance requirements improve cable performance
- Innovative design with cross-web separator enhances signal integrity and reduces crosstalk
- Exceeds ANSI/TIA-568.2-D Category 6 performance requirements
- Guaranteed electrical performance to 400 MHz and tested to 550 MHz

Application

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) — IEEE 802.3bt Type 1 to 4
- ATM and token ring
- Horizontal distribution and backbone cabling

Certifications



Part Numbers

| JACKET COLOR | DESCRIPTION | |
|--------------|--|---|
| | Category 6+ UTP Cable, 4-Pair, Riser Rated | Category 6+ UTP Cable, 4-Pair, Plenum Rated |
| Blue | U6550-004-RBL2 | U6550-004-PBL2 |
| White | U6550-004-RWH2 | U6550-004-PWH2 |
| Grey | U6550-004-RGY2 | U6550-004-PGY2 |
| Black | U6550-004-RBK2 | U6550-004-PBK2 |
| Yellow | U6550-004-RYL2 | U6550-004-PYL2 |
| Green | U6550-004-RGN2 | U6550-004-PGN2 |
| Red | U6550-004-RRD2 | U6550-004-PRD2 |
| Orange | U6550-004-ROR2 | U6550-004-POR2 |
| Violet | U6550-004-RV12 | U6550-004-PV12 |

Performance Characteristics

Meet or exceed TIA-568-C.2 Category 6 requirements

| FREQUENCY ¹ (MHZ) | INSERTION LOSS @ 20°C MAXIMUM dB/100 m | | NEXT MINIMUM dB/100 m | | ACR MINIMUM dB/100 m | | PSNEXT MINIMUM dB/100 m | |
|---------------------------------|---|---------|--------------------------|---------|-------------------------|---------|----------------------------|---------|
| | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical |
| 1 | 2.0 | 1.7 | 79.3 | 90.6 | 77.3 | 88.9 | 77.3 | 88.2 |
| 4 | 3.8 | 3.4 | 70.3 | 80.9 | 66.5 | 77.5 | 68.3 | 78.6 |
| 10 | 5.9 | 5.4 | 64.3 | 74.4 | 58.4 | 69.0 | 62.3 | 72.1 |
| 16 | 7.5 | 6.9 | 61.2 | 71.4 | 53.7 | 64.5 | 59.2 | 69.1 |
| 20 | 8.4 | 7.8 | 59.8 | 70.1 | 51.4 | 62.4 | 57.8 | 67.8 |
| 25 | 9.4 | 8.7 | 58.3 | 68.4 | 48.9 | 59.7 | 56.3 | 66.1 |
| 31.25 | 10.6 | 9.8 | 56.9 | 67.2 | 46.3 | 57.3 | 54.9 | 64.8 |
| 62.5 | 15.3 | 14.1 | 52.4 | 62.5 | 37.1 | 48.4 | 50.4 | 60.3 |
| 100 | 19.7 | 18.1 | 49.3 | 59.7 | 29.6 | 41.5 | 47.3 | 57.3 |
| 200 | 28.8 | 26.4 | 44.8 | 54.5 | 16.0 | 28.3 | 42.8 | 52.3 |
| 250 | 32.6 | 29.8 | 43.3 | 53.5 | 10.7 | 23.5 | 41.3 | 50.8 |
| 400 | 42.7 | 38.9 | 36.3 | 45.8 | | 9.2 | 34.3 | 45.6 |
| 500 | | 44.2 | | 45.4 | | 1.2 | | 43.0 |
| 550 | | 47.2 | | 44.0 | | | | 42.1 |

| FREQUENCY ¹ (MHZ) | PSACR MINIMUM dB/100 m | | RETURN LOSS MINIMUM dB/100 m | | ELFEXT MINIMUM dB/100 m | | PSELFEXT (PSACRF) MINIMUM dB/100 m | |
|---------------------------------|---------------------------|---------|---------------------------------|---------|----------------------------|---------|---------------------------------------|---------|
| | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical |
| 1 | 75.3 | 85.6 | 20.0 | 28.5 | 72.7 | 82.6 | 69.8 | 80.6 |
| 4 | 64.5 | 74.3 | 23.0 | 33.8 | 60.7 | 70.7 | 57.8 | 68.8 |
| 10 | 56.5 | 65.7 | 25.0 | 36.1 | 52.7 | 62.9 | 49.8 | 60.9 |
| 16 | 51.7 | 61.3 | 25.0 | 36.2 | 48.6 | 58.9 | 45.7 | 56.9 |
| 20 | 49.4 | 59.2 | 25.0 | 35.9 | 46.7 | 57.0 | 43.8 | 54.9 |
| 25 | 46.9 | 56.5 | 24.3 | 36.0 | 44.7 | 55.2 | 41.8 | 53.0 |
| 31.25 | 44.3 | 54.2 | 23.6 | 35.7 | 42.8 | 53.3 | 39.9 | 51.1 |
| 62.5 | 35.1 | 45.3 | 21.5 | 33.2 | 36.8 | 47.5 | 33.9 | 45.2 |
| 100 | 27.6 | 38.5 | 20.1 | 32.2 | 32.7 | 43.6 | 29.8 | 41.3 |
| 200 | 14.0 | 25.2 | 18.0 | 30.2 | 26.7 | 37.7 | 23.8 | 35.4 |
| 250 | 8.7 | 20.4 | 17.3 | 30.1 | 24.7 | 35.7 | 21.8 | 33.4 |
| 400 | | 6.2 | 15.9 | 27.0 | 17.8 | 30.2 | 12.8 | 28.8 |
| 500 | | | | 25.5 | | 28.2 | | 25.9 |
| 550 | | | | 24.6 | | 26.6 | | 24.2 |

¹Value above 550Mhz are for informational purposes only

Technical Details

| ITEM | UNIT | CMR (RISER) | CMP (PLENUM) | |
|---------------------------------|---------------------|---------------------------------------|--|---------|
| Conductor DC Resistance | Max. Ohms/100 m | 9.38 | 9.38 | |
| Resistance Unbalance | Max. % | 5 | 5 | |
| Mutual Capacitance | Max. nF/100 m | 5.6 | 5.6 | |
| Capacitance Unbalance | Max. pF/100 m | 330 | 330 | |
| Delay Skew | Max. ns | 45 | 45 | |
| Nominal Velocity of Propagation | % | 70 | 73 | |
| Operating Temperature | °F (°C) | -4 to +140 (-20 to +60) | -4 to +167 (-20 to +75) | |
| Storage Temperature | °F (°C) | -4 to +176 (-20 to +80) | -4 to +194 (-20 to +90) | |
| Bending Radius | | 4 x Cable diameter | 4 x Cable diameter | |
| Packaging: | Type | 1,000 ft (305 m) Reel or Box | 1,000 ft (305 m) Reel or Box | |
| | Weight | lb/kft (kg/km) | 24 (36) | 26 (39) |
| | Packages Per Pallet | | 27 | 27 |
| Materials: | Conductors | 23 AWG, Solid annealed copper | 23 AWG, Solid annealed copper | |
| | Insulation | Polyolefin | Fluoropolymer (FEP) | |
| | Jacket | Flame retardant PVC | Low smoke PVC (Plenum Rated) | |
| Approvals: | Safety | UL 444, UL 1666, CSA C22.2 No. 214-08 | UL 444, NFPA 262, CSA C22.2 No. 214-08 | |
| | Performance | ANSI/TIA-568.2-D | | |