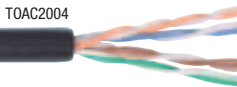


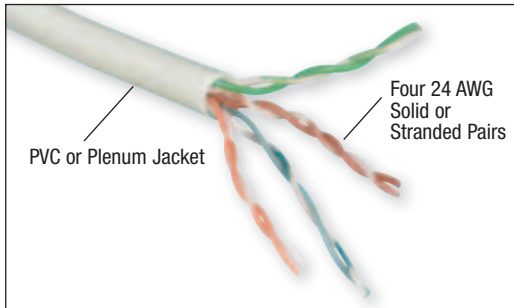
Category 5E



Outdoor Category 5E

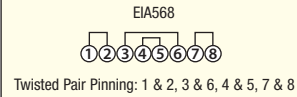


RoHS Category 5E to 100 MHz - Hi-Speed UTP for LAN and Emerging Applications



Unshielded twisted pair has become the cabling of choice in voice and data applications. Low cost and easy installation are driving popularity. As new higher speed applications emerge, higher performance from cabling systems is required. Category 5E performance requirements add margin over existing Category 5 specifications to support more robust, bi-directional signaling schemes over all four pairs. Applications supported include: 10Base-T, 100Base-T, 100Base-TX, 1000Base-T, 100BaseVG-Any-LAN, 155Mbps ATM and a number of emerging multimedia applications.

Category 5E Bulk Cable



Category 5E Stranded 4 Pair Cable



| Item # | Description | Color | 1-9 | 10-24 | 25-99 | 100-249 | 250-499 | |
|--------|------------------|----------------------------------|----------------------------|---|-------------------------|--------------------|--------------------|--------------------|
| | FREQUENCY | NEAR END CROSSTALK (NEXT) | POWER SUM NEXT LOSS | EQUAL LEVEL FAR END CROSSTALK (ELFEXT) | POWER SUM EFLXET | RETURN LOSS | ATTENUATION | IMPEDANCE |
| | 4 MHz | 56.3 db | 53.3 db | 51.7 db | 48.7 db | 23 db | 4.1 db | 100 Ohms ± 15 Ohms |
| | 10 MHz | 50.3 db | 47.3 db | 43.8 db | 40.8 db | 25 db | 6.5 db | 100 Ohms ± 15 Ohms |
| | 20 MHz | 45.8 db | 42.8 db | 37.7 db | 34.7 db | 25 db | 9.3 db | 100 Ohms ± 15 Ohms |
| | 100 MHz | 35.3 db | 32.3 db | 23.8 db | 20.8 db | 20.1 db | 22 db | 100 Ohms ± 15 Ohms |

This table refers to the electrical specifications of TC2379, other Category 5E cabling is similar.

| | | | | | | | |
|----------|---|--------|---------|---------|---------|---------|---------|
| TC2379 | Category 5E, PVC Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid | Beige | 99.00 | 97.02 | 95.04 | 93.06 | 91.08 |
| TC2737 | Category 5E, PVC Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid | Gray | 99.00 | 97.02 | 95.04 | 93.06 | 91.08 |
| TC58141 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 25 Pr. Solid | Gray | 1895.95 | 1858.03 | 1820.11 | 1782.19 | 1744.27 |
| TC2380 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 2 Pr. Stranded | Beige | 159.00 | 155.82 | 152.64 | 149.46 | 146.28 |
| TC2382 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded | Beige | 229.00 | 224.42 | 219.84 | 215.26 | 210.68 |
| TC2581 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded | Yellow | 229.00 | 224.42 | 219.84 | 215.26 | 210.68 |
| TC2589 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded | Red | 229.00 | 224.42 | 219.84 | 215.26 | 210.68 |
| TC2590 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded | Green | 229.00 | 224.42 | 219.84 | 215.26 | 210.68 |
| TC2599 | Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded | Blue | 229.00 | 224.42 | 219.84 | 215.26 | 210.68 |
| TPC2347 | Category 5E, Plenum Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid | White | 219.00 | 214.62 | 210.24 | 205.86 | 201.48 |
| TPC2567 | Category 5E, Plenum Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid | Blue | 219.00 | 214.62 | 210.24 | 205.86 | 201.48 |
| TPC58142 | Category 5E, Plenum Bulk, 1,000ft (304.8m) Reel, 25 Pr. Solid | Gray | 3999.00 | 3919.02 | 3839.04 | 3759.06 | 3679.08 |

RoHS Category 5E Outdoor UV Resistant Gel-Filled Bulk Cable - Ethernet Grade Cable for Outdoor Usage

Protect Ethernet cable runs outside with L-com's outdoor Category 5E rated twisted pair cabling. The gel-filled jacket provides moisture protection when used in an outdoor environment. With the UV protected jacket, outdoor cable runs are protected from damage caused by sunlight exposure. The cable is EIA568 color-coded for compatibility with standard installations and features solid conductors for termination into standard IDC connectors. Order online today!

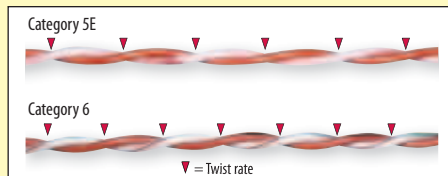
| FREQUENCY | NEAR END CROSS TALK (NEXT) | ATTENUATION | CAPACITANCE | IMPEDANCE |
|-----------|----------------------------|--------------------|--------------|--------------------|
| 4 MHz | 53 dB min. | 4.1 dB/330 ft max. | 14 pF/ft Max | 100 Ohms ± 15 Ohms |
| 10 MHz | 47 dB min. | 6.5 dB/330 ft max. | 14 pF/ft Max | 100 Ohms ± 15 Ohms |
| 20 MHz | 42 dB min. | 9.3 dB/330 ft max. | 14 pF/ft Max | 100 Ohms ± 15 Ohms |
| 100 MHz | 32 dB min. | 22 dB/330 ft max. | 14 pF/ft Max | 100 Ohms ± 15 Ohms |

| | | | | | | | |
|----------|--|-------|--------|--------|--------|--------|--------|
| TOAC2004 | Cat. 5E, Outdoor Aerial/Duct, 1,000ft (304.8m) Reel, 4 Pr. Solid | Black | 249.95 | 244.95 | 239.95 | 234.95 | 229.95 |
| TOBC2004 | Cat. 5E, Outdoor Direct Burial, 1,000ft (304.8m) Reel, 4 Pr. Solid | Black | 549.00 | CALL | CALL | CALL | CALL |



What is the difference between Category 5E & Category 6 100 Ohm UTP?

The Category 6 Standard adopted in mid 2002 extended key parameters over 5E specifications. The additional headroom is intended to provide quality transmission at higher data rates required by emerging applications. As the chart indicates, the most prominent difference is the frequency at which the key parameters are measured. The jump from 100 to 250 Mhz places a great deal of emphasis on component quality as well as installation techniques. This improvement is commonly noticed by the increased pair twisting and staggering of twisted pairs.



| | Category 5E | Category 6 |
|---|-------------|--|
| Frequency | 100 MHz | 250 MHz |
| Attenuation | 22 db | 19.8 db/100M @ 100 MHz 32.8 db/100M @ 250 MHz |
| Return Loss | 19 db | 19 db @ 100 MHz 15.6 db @ 250 MHz |
| Delay Skew | 45 ns | 45 ns |
| Near End Crosstalk (NEXT) | 35.3 db | 44.3 db @ 100 MHz 38.3 db @ 250 MHz |
| Power Sum Near End Crosstalk (PS-NEXT) | 32.3 db | 42.3 db @ 100 MHz 36.3 db @ 250 MHz |
| Equal Level Far End Crosstalk (ELFEXT) | 23.8 db | 27.8 db @ 100 MHz 19.8 db @ 250 MHz |
| Power Sum Equal Level Far End Crosstalk (PS-ELFEXT) | 20.8 db | 24.8 db @ 100 MHz 16.8 db @ 250 MHz |

