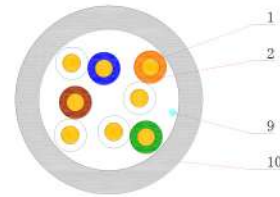
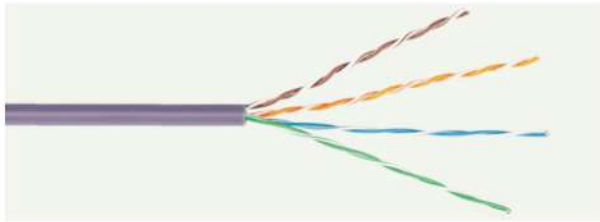


Cat.5e UTP 0.48 LSZH



Standard

- | | |
|------------------|---|
| ISO/IEC 11801 | <input type="checkbox"/> 100Base-T4 |
| IEC 61156-5 | <input type="checkbox"/> 100Base-TX |
| YD/T 1019 | <input type="checkbox"/> 100VG-AnyLAN |
| EN 50173 | <input type="checkbox"/> 1000Base-T |
| ANSI/TIA/EIA-568 | <input type="checkbox"/> 1000Base-TX |
| UL 444 | <input type="checkbox"/> 155Mbps ATM |
| EN 50575 | <input type="checkbox"/> 622Mbps ATM |
| EN 13501-6 | <input type="checkbox"/> 10 Gb Ethernet |

Electrical Properties

| | |
|--------------------------------------|-----------------|
| Resistance | ≤ 9.5Ω/100m |
| Unbalance Resistance of pair | ≤ 2% |
| Unbalance Resistance of pairs | ≤ 4% |
| Dielectric of Conductors | 1.0kV · 1min DC |
| Dielectric conductor to Ground | / |
| Insulation Resistance | ≥ 5000 MΩ · km |
| Mutual Capacitance of a Pair | ≤ 5.6 nF/100m |
| Pair to Ground Unbalance Capacitance | / |

Cable Structure

- | | |
|-------------------|------------------|
| 1. Conductor | BC 0.48±0.005mm |
| 2. Insulation | PE/FEP ID 0.88 |
| 3. Twisted Pair | Lay length ≤20mm |
| 4. Pair Screen | NO |
| 5. Separate | NO |
| 6. Mylar tape | NO |
| 7. Drain Wire | NO |
| 8. Overall Screen | NO |
| 9. Rip Cord | Dacron 500D |
| 10. Jacket | LSZH 5.0±0.2 |

Net weight: 9.04kg/305m

Physical Properties

| material | | no aging | | aged | | | |
|------------|--------|------------|------------------|-----------------------------|---------|-----------------------------------|---------|
| | | elongation | tensile strength | Elongation & rate of change | | tensile strength & rate of change | |
| | | (%) | (Mpa) | (%) | (%) | (Mpa) | (%) |
| insulation | PP | ≥300 | ≥20 | / | / | / | / |
| | HDPE | ≥300 | ≥16 | / | / | / | / |
| | MDPE | ≥300 | ≥12 | / | / | / | / |
| | SFS-PE | ≥200 | ≥10 | / | / | / | / |
| | FEP | ≥200 | ≥16 | / | / | / | / |
| jacket | LSZH | ≥125 | ≥10 | ≥100 | -30~+30 | ≥8.0 | -30~+30 |
| | PVC | ≥150 | ≥13.5 | ≥125 | -20~+20 | ≥12.5 | -20~+20 |
| | FEP | ≥250 | ≥20 | ≥200 | -20~+20 | ≥16.0 | -20~+20 |

Transmission Performance

| Frequency (MHz) | Transfer Impedance ≅ mΩ / m | Coupling Attenuation ≅ dB | delay ≅ dB/100m | Skew ≅ ns/100m | Attenuation ≅ dB/100m | TCL ≅ dB | EL TCL ≅ dB | NEXT ≅ dB | PS NEXT ≅ dB | EL FEXT ≅ dB/100m | PS ELFEXT ≅ dB/100m | PS ANEX ≅ dB | PS AACR-F ≅ dB | Impedance (Ω) | | RL ≅ dB |
|--------------------|--------------------------------|------------------------------|--------------------|-------------------|--------------------------|-------------|----------------|--------------|-----------------|----------------------|------------------------|-----------------|-------------------|---------------|------|------------|
| | | | | | | | | | | | | | | Max. | Min. | |
| 1 | / | / | / | / | / | 50 | 35.0 | / | / | / | / | / | / | / | / | / |
| 4 | / | / | 552 | 45 | 4.1 | 44 | 23.0 | 56.3 | 53.3 | 52.0 | 49.0 | / | / | 115 | 85 | 23.0 |
| 8 | / | / | 547 | 45 | 5.8 | 41 | 16.9 | 51.8 | 48.8 | 45.9 | 42.9 | / | / | 115 | 85 | 24.5 |
| 10 | / | / | 545 | 45 | 6.5 | 40 | 15.0 | 50.3 | 47.3 | 44.0 | 41.0 | / | / | 115 | 85 | 25.0 |
| 16 | / | / | 543 | 45 | 8.2 | 38 | 10.9 | 47.2 | 44.2 | 39.9 | 36.9 | / | / | 115 | 85 | 25.0 |
| 20 | / | / | 542 | 45 | 9.3 | 37 | 9.0 | 45.8 | 42.8 | 38.0 | 35.0 | / | / | 115 | 85 | 25.0 |
| 25 | / | / | 541 | 45 | 10.4 | 36 | 7.0 | 44.3 | 41.3 | 36.0 | 33.0 | / | / | 115 | 85 | 24.3 |
| 30 | / | / | 541 | 45 | 11.5 | 35.2 | 5.5 | 43.1 | 40.1 | 34.5 | 31.5 | / | / | 115 | 85 | 23.8 |
| 31.25 | / | / | 540 | 45 | 11.7 | 35.1 | / | 42.9 | 39.9 | 34.1 | 31.1 | / | / | 115 | 85 | 23.6 |
| 62.5 | / | / | 539 | 45 | 17.0 | 32 | / | 38.4 | 35.4 | 28.1 | 25.1 | / | / | 115 | 85 | 21.5 |
| 100 | / | / | 538 | 45 | 22.0 | 30 | / | 35.3 | 32.3 | 24.0 | 21.0 | / | / | 115 | 85 | 20.1 |
| 200 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 250 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 300 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 400 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 500 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |