

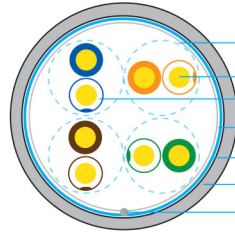


STANDARD

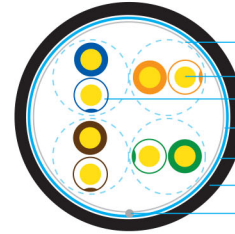
- ANSI/TIA-568.2-D Category 5E
- ISO/IEC 11801:2017 Class D
- EN 50173-1 Category 5E
- ICEA S-90-661 Category 5E
- EN 50288-2-1, NEMA WC 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- 3P Verified to Category 5E
- UL E197771, RoHS Compliant

APPLICATION

- Structure cabling for horizontal and building backbone
- 2.5G BASE-T (IEEE 802.3bz)
- 10/100/1000 BASE-T (IEEE 802.3i/u/ab)
- IEEE 802.3af/at (PoE/PoE+)
- 52/155/622 Mbps and 1.2 Gbps ATM
- 4/16 Mbps Token Ring
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- HD BaseT 2.0 standard, Baseband, Broadband
- Digital & Analog for data, video and audio application



US-9035



US-9035PE

ELECTRICAL CHARACTERISTICS

| | |
|---------------------------------|-----------------------------|
| Impedance | : 100±15Ω, 1 MHz to 350 MHz |
| Mutual Capacitance | : 5.6 nFMax / 100m |
| Capacitance, Unbalance | : 160 pF Max / 100m |
| DC Resistance | : 9.38 ohm Max/100m |
| DC Resistance, Unbalance | : 5% Max. |
| Insulated Resistance | : 5000 MΩ/Km |
| Dielectric Strength | : 1kV/min |
| Propagation Delay | : 536 ns/100m Max @350MHz |
| Delay Skew | : 25 ns Max |

CONSTRUCTION / MATERIAL

| | |
|-------------------|--|
| Conductor | : 24AWG Solid or Stranded Bare copper |
| Insulation | CM, CMR, LSZH, OUTDOOR : HDPE CMP : FEP |
| Mylar | : Mylar Tape |
| Drain Wire | : Tinned Copper |
| Shielded | : AL-Mylar Tape |
| Jacket | CM, CMR : FR-PVC CMP : FR-PVC (Low Smoke) LSZH : FR-LSZH OUTDOOR : UV-Proof, PE |

| FREQUENCY (MHZ) | INSERTION LOSS (dB/100m) | NEXT MIN.(dB) | ACR-N MIN.(dB) | PS NEXT MIN.(dB) | PS ACR-N MIN.(dB) | ACR-F MIN.(dB/100m) | PS ACR-F MIN.(dB/100m) | RL MIN.(dB) |
|-----------------|--------------------------|---------------|----------------|------------------|-------------------|---------------------|------------------------|-------------|
| 1 | 2.0 | 77 | 75 | 75 | 73 | 68 | 65 | 20.0 |
| 25 | 9.5 | 56 | 46.5 | 54 | 44.5 | 40 | 37 | 24.3 |
| 31.25 | 10.7 | 55 | 44.3 | 53 | 42.3 | 38 | 35 | 23.6 |
| 62.5 | 15.4 | 50 | 34.6 | 48 | 32.6 | 32 | 29 | 21.5 |
| 100 | 19.8 | 47 | 27.2 | 45 | 25.2 | 28 | 25 | 20.1 |
| 155 | 25.3 | 44 | 18.7 | 42 | 16.7 | 24 | 21 | 18.8 |
| 200 | 29 | 43 | 14 | 41 | 12 | 22 | 19 | 18.0 |
| 250 | 32.8 | 41 | 8.2 | 39 | 6.2 | 20 | 17 | 17.3 |
| 300 | 36.6 | 40 | 3.4 | 38 | 1.4 | 18 | 15 | 16.8 |
| 350 | 40 | 39 | - | 37 | - | 17 | 14 | 16.3 |

MECHANICAL PROPERTIES

Minimum Bending Radius

Installation 8 X Cable Diameter

Operation 4 X Cable Diameter

Tensile Strength

110 N (25lbf)

Ultimate Breaking Strength

>400 N (90lbf)

Installation / Operating temperature

-20°C to 60°C (-40°C to 75°C for Outdoor)

Storage Temperature

-20°C to 80°C (-40°C to 80°C for Outdoor)

| Part No. | UL/NEC Flame Rating | Conductor | Jacket | Diameter (mm.) | Color | Packaging |
|-------------|---------------------|-------------------------|--------|----------------|-------|---------------|
| US-9035 | CMR | 24AWG Solid Bare Copper | FR-PVC | 6.1 | White | 305m/Reel |
| US-9035LSZH | LSZH | 24AWG Solid Bare Copper | LSZH | 6.1 | White | 305m/Reel |
| US-9035PE | OUTDOOR | 24AWG Solid Bare Copper | PE | 6.1 | Black | 305m/Pull Box |