

Product Specification

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA/EIA 568-B.2

ISO/IEC 11801 CLASS D+, 2nd Edition

CENELEC EN 50173-1

CENELEC EN 50288-2-1

Flame Retardancy is Verified According to IEC 60332-1.

We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

CONSTRUCTION & CHARACTERISTICS:

| | | | |
|------------------|---|--|--|
| Conductor | Material / Size | Bare Copper / 24 AWG | |
| Insulation | Material | FOAM-SKIN PE | |
| | Thickness | Normal Avg.: 0.269 mm | |
| | Diameter | Normal : 1.055 mm | |
| | Colors | Blue/White-Blue | Orange/White-Orange |
| | | Green/White-Green | Brown/White-Brown |
| | Elongation | Min. 150 % | |
| Tensile Strength | Min. 0.51 Kg/mm ² | | |
| Shield | Al-Mylar Type | Al-Mylar type insulation on outside surface | |
| Drain wire | Material | Tinned Copper | |
| | Size | Comply with international standard | |
| Sheath | Material | PVC | LS0H |
| | Thickness | Average: 0.50 mm | Average: 0.50 mm |
| | Diameter | 6.1 ± 0.3 mm | 6.1 ± 0.3 mm |
| | Color | Assorted upon request | Assorted upon request |
| | Elongation | Min. 100% | Min. 125% |
| | Tensile Strength | Min. 1.407 Kg/mm ² | Min. 0.917 Kg/mm ² |
| | Aging at 100°C for 168Hrs | Min. elongation retention:50% Min. tensile strength retention:75% | Min. elongation retention:75% Min. tensile strength retention:70% |
| Flame Test | Burning five times, every time is less than 60 second and paper flag can't be burned. | | |



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APPROVALS:

- UL/cUL Listed
- 3P Certified ANSI/TIA/EIA-568-B.2 Category 5E Testing Performance Requirements.

APPLICATIONS:

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-Tx Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12), 155 Mbps ATM
- 550 MHz Broadband Video
- Voice, T1, ISDN

ELECTRICAL PERFORMANCE:

| | | | | |
|--------------------------------------|--------------------|---------------------------------|------------------|---------------------|
| Spark Test | | 850 V ac | | |
| Dielectric Strength | | 2500 V dc / 3 seconds | | |
| Insulation Resistance Test | | Min. 150 MΩ/Km | | |
| Conductor Resistance | | Max.9.38Ω/100m at 20°C | | |
| Resistance Unbalance | | Max. 5% | | |
| Capacitance Unbalance | | Max. 330 pF/100m | | |
| Mutual Capacitance | | Max. 5600 pF/100m | | |
| Impedance | 722kHz | 102Ω± 15% | | |
| | 1~125MHz | 100Ω± 15% | | |
| Attenuation & Near End Cross Talk | Frequency (MHz) | Insertion Loss (dB/100M).Max | Next (dB).Min | PS NEXT (dB).Min |
| | 722kHz | -- | 67.0* | 64.0* |
| | 1MHz | -- | 65.0* | 62.0* |
| | 4 MHz | 4.1* | 56.0* | 53.0* |
| | 8 MHz | 5.8* | 51.0* | 48.0* |
| | 10 MHz | 6.5* | 50.0* | 47.0* |
| | 16 MHz | 8.2* | 47.0* | 44.0* |
| | 20 MHz | 9.3* | 45.0* | 42.0* |
| | 25 MHz | 10.4* | 44.0* | 41.0* |
| | 31.25 MHz | 11.7* | 42.0* | 39.0* |
| | 62.5 MHz | 17.0* | 38.0* | 35.0* |
| | 100 MHz | 22.0* | 35.0* | 32.0* |
| | 125 MHz | 25.0* | 34.0* | 31.0* |

