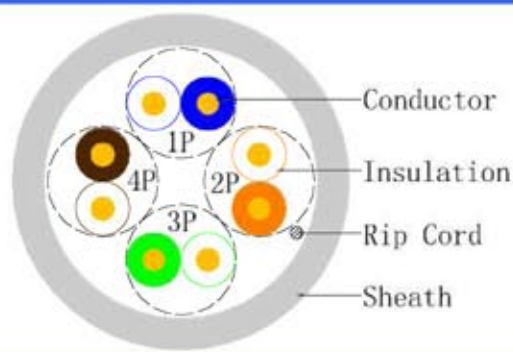


Cross Section



Electrical Characteristics (20°C)

Reference Standard: TIA/EIA-568-B.2 & ISO/IEC 11801
 Product Standard Certification: UL File E227171

| Test Item | Units | Spec |
|---|---------|--------|
| 1.Max.Conductor DC Resistance | Ω/100m | ≤ 9.5 |
| 2.Unbalance of Pair DC Resistance | % | ≤ 2.5 |
| 3.Dielectric Strength between Pairs | kV/min | ≤ 1.0 |
| 4.Min.Insulation Resistance | MΩ.km | ≥ 5000 |
| 5.Max.Pair Mutual Capacitance | nF/100m | ≤ 5.6 |
| 6.Max.Pair Capacitance Unbalance | pF/100m | ≤ 330 |
| 7.Characteristic impedance(1 to 100MHz) | Ω | 100±15 |
| 8.Characteristic impedance(100 to 200MHz) | Ω | 100±25 |
| 9.Characteristic impedance(200 to 350MHz) | Ω | 100±35 |
| 10.Delay Skew (1 to 350MHz) | ns/100m | ≤ 45 |
| 11.Short or Open of the loop | | None |

Cable Description

| | |
|----------------------------|--|
| 1) Conductor: | |
| Number of Pairs | 4 |
| Total Number of Conductors | 8 |
| Material | BC - Bare Copper |
| Stranding | Solid |
| Wire Gage | 24AWG |
| Diameter | Φ 0.495±0.005 mm |
| 2) Insulation: | |
| Material | HDPE - Polyolefin |
| Diameter | Φ 0.88±0.05 mm |
| Pair Color Code(Stripe) | Pair 1:White/Blue & Blue Pair 2:White/Orange & Orange Pair 3:White/Green & Green Pair 4:White/Brown & Brown |
| 3) Paired: | |
| Direction | Right Hand Lay |
| Length of Lay | < 38 mm |
| Twisted Pair Diameter | 1.76 mm |
| 4) Cabling: | |
| Order of the Pair | See the Cross Section |
| Direction | Right Hand Lay |
| 5) Outer Sheath: | |
| Material | PVC - Polyvinyl Chloride(UL CMR) |
| Colors | Grey |
| Rip Cord | 200D±3 |
| Min.Thickness | 0.40 mm |
| Thickness | 0.50±0.05 mm |
| Diameter | Φ 5.10±0.20 mm |
| Marking | Per Customer Request |

| Frequency (MHz) | Min.RL (dB) | Min.SRL (dB) | Max.IL (dB/100m) | Min.NEXT (dB) |
|-----------------|-------------|--------------|------------------|---------------|
| 1 | 20.0 | 28.0 | 2.0 | 65.3 |
| 4 | 23.0 | 28.0 | 4.0 | 56.3 |
| 8 | 24.5 | 28.0 | 5.7 | 51.8 |
| 10 | 25.0 | 28.0 | 6.4 | 50.3 |
| 16 | 25.0 | 28.0 | 8.2 | 47.2 |
| 20 | 25.0 | 25.0 | 9.2 | 45.8 |
| 25 | 24.3 | 27.0 | 10.3 | 44.3 |
| 31.25 | 23.6 | 26.1 | 11.6 | 42.9 |
| 62.5 | 21.5 | 23.1 | 16.8 | 38.4 |
| 100 | 20.1 | 21.0 | 21.7 | 35.3 |
| 155 | 18.8 | 19.1 | 27.6 | 32.5 |
| 200 | 18.0 | 18.0 | 31.8 | 30.8 |
| 250 | 17.3 | 17.0 | 36.1 | 29.3 |
| 300 | 16.8 | 16.2 | 40.0 | 28.1 |
| 350 | 16.3 | 15.6 | 43.8 | 27.1 |

| Frequency (MHz) | Min.PSNEXT T(dB) | Min.ELFEXT (dB) | Min.PSELF EXT(dB) | Max.Delay (ns/100m) |
|-----------------|------------------|-----------------|-------------------|---------------------|
| 1 | 62.3 | 64.0 | 61.0 | 570 |
| 4 | 53.3 | 52.0 | 49.0 | 552 |
| 10 | 47.3 | 44.0 | 41.0 | 545 |
| 16 | 44.2 | 39.9 | 36.9 | 543 |
| 20 | 42.8 | 38.0 | 35.0 | 542 |
| 25 | 41.3 | 36.0 | 33.0 | 541 |
| 31.25 | 39.9 | 34.1 | 31.1 | 540 |
| 62.5 | 35.4 | 28.1 | 25.1 | 539 |
| 100 | 32.3 | 24.0 | 21.0 | 538 |
| 155 | 29.5 | 20.2 | 17.2 | 537 |
| 200 | 27.8 | 18.0 | 15.0 | 537 |
| 250 | 26.3 | 16.0 | 13.0 | 536 |
| 300 | 25.1 | 14.5 | 11.5 | 536 |
| 350 | 24.1 | 13.1 | 10.1 | 536 |

Other Characteristics

| | | |
|------------------|-------|--------------|
| About Net Weight | 28 | kg/km |
| Length | 100m | Coil |
| | 305m | Pully Box |
| | 500m | Plywood Drum |
| | 1000m | Plywood Drum |
| | 2000m | Plywood Drum |

Mechanical Characteristics

| | | |
|-----------------------------|-----------------------|----------------|
| Test Object | | Sheath |
| Test Material | | PVC |
| Before | Tensile Strength(Mpa) | ≥ 13.5 |
| Aging | Elongation(%) | ≥ 150 |
| Aging Condition(°C hrs) | | 100±168 |
| After | Tensile Strength(Mpa) | ≥ 12.5 |
| Aging | Elongation(%) | ≥ 125 |
| Cold Bend(-20°C 4hrs) | | No crack |
| Operating Temperature Range | | -10°C To +75°C |
| Min.Bend Radius(Install) | | 8D |

Revision History

| Rev | Description | Date |
|-----|-------------|------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

Prepared by: Wang Sheng Jie Date : 2009-04-06
 Approved by: Wang Yuan Yuan Page: 1 of 1

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