**Product Specification**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Specification:***

|  |  |  |
| --- | --- | --- |
| Item | Unit | Spec. Value |
| Conductor | Wire No. | --- | 4P |
| Material | --- | Solid Bare Copper |
| Construction | No./mm | 0.57±0.02 |
| Insulation | Material | --- | PE |
| Diameter | mm | 1.16±0.05 |
| Color | --- | 1.Blue&White Blue 2.Orange&White Orange3.Green&White Green 4.Brown&White Brown  |
| Seperator | --- | / | Yes |
| Tape Wrap | Spec | mm |  PET 100％Coverage |
| Foil Shield | Spec | mm | AL-Mylar 100％Coverage |
| Drain Wire | Material | --- | Tinned copper |
| Spec | mm | 0.4±0.05 |
| Rip cord | --- | / | Yes |
| Jacket  | Material | --- | PVC |
| Color | --- | Assorted upon request |
| Thickness | mm | 0.55±0.1 |
| Diameter | mm | 7.8±0.5 |

**Sketch:****Application:** 1: Material : Comply RoHS **Mechaniacl Specification：**

|  |  |
| --- | --- |
| Conductor Elongation | ≥10％ |
| Insulation Tensile Strength | ≥16.5Mpa |
| Insulation Elongation | ≥300％ |
| Jacket Tensile Strength | ≥13.8Mpa |
| Jacket Elongation | ≥100％ |

**Electrical Specifications:**

|  |  |
| --- | --- |
| Impedance | 100±15Ω（1.0-100Mhz） |
| 100±22Ω（1.0-250Mhz） |
| Conductor Resistance @20°C | Max.9.38Ω/100m |
| DC Resistance Unbalance | Max.5％ |
| Insulation Resistance | Min. 5000 MΩ\*Km |
| Delay Skew | Max.45ns/100m |

**High Frequency Electrical Performance:(100m at 20℃)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency（MHz） | ATT (≤dB) | NEXT (≥dB) | PSNEXT (≥dB) | ELFEXT (≥dB) | PS ELFEXT (≥dB) | RL (≥dB) | Spread out 100m cable and test it |
| 1.00 | 2.0 | 74.3 | 72.3 | 67.8 | 64.8 | 20.0 |
| 4.00 | 3.8 | 65.3 | 63.3 | 55.8 | 52.8 | 23.0 |
| 8.00 | 5.3 | 60.8 | 58.8 | 49.7 | 46.7 | 24.5 |
| 10.00 | 6.0 | 59.3 | 57.3 | 47.8 | 44.8 | 25.0 |
| 16.00 | 7.6 | 56.2 | 54.2 | 43.7 | 40.7 | 25.0 |
| 20.00 | 8.5 | 54.8 | 52.8 | 41.8 | 38.8 | 25.0 |
| 25.00 | 9.5 | 53.3 | 51.3 | 39.8 | 36.8 | 24.3 |
| 31.25 | 10.7 | 51.9 | 49.9 | 37.9 | 34.9 | 23.6 |
| 62.50 | 15.4 | 47.4 | 45.4 | 31.9 | 28.9 | 21.5 |
| 100.00 | 19.8 | 44.3 | 42.3 | 27.8 | 24.8 | 20.1 |
| 200.00 | 29.0 | 39.8 | 37.8 | 21.8 | 18.8 | 18.0 |
| 250.00 | 32.8 | 38.3 | 36.3 | 19.8 | 16.8 | 17.3 |

  |