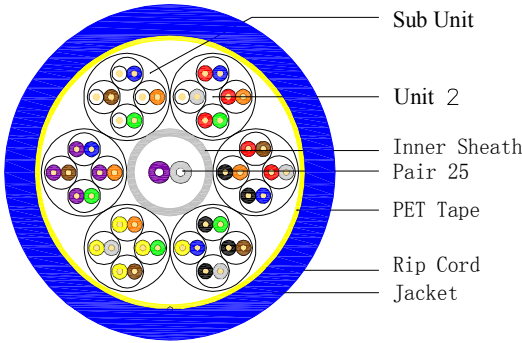


**Cross Section**

**Electrical Characteristics(20°C)**



|   |                                 |             |  |
|---|---------------------------------|-------------|--|
| Standard :                                | TIA/EIA-568-B.2 & IEC/ISO 11801 |             |  |
| Product Standard Certification :          | E310605                         |             |  |
| <b>Test Item</b>                          | <b>Units</b>                    | <b>Spec</b> |  |
| 1. Conductor D.C. Resistance              | Ω/100m                          | ≤9.5        |  |
| 2. Unbalance of Pair D.C Resistance       | %                               | ≤2.5        |  |
| 3. Dielectric Strength between Pairs      | kv/min                          | ≤1.0        |  |
| 4. Insulation Resistance                  | MΩ·km                           | ≥5000       |  |
| 5. Capacitance                            | nF/100m                         | ≤5.6        |  |
| 6. Unbalance of Capacitance               | pF/100m                         | ≤330        |  |
| 7. Characteristic impedance (1 to 100MHz) | Ω                               | 100±15      |  |
| 8. Short or Open of the loop              | —                               | None        |  |
| 9. Shield                                 | —                               | —           |  |

**Cable Description**

|                       |                          |
|-----------------------|--------------------------|
| <b>1) Conductor :</b> |                          |
| Pairs                 | 25                       |
| Total Conductor       | 50                       |
| AWG                   | 24                       |
| Diameter of Conductor | Φ 0.50mm (± 0.01mm)      |
| Material              | Solid Bare Copper        |
| Elongation            | ≥15%                     |
| <b>2) Insulate :</b>  |                          |
| Material              | HDPE - Polyethylene      |
| Nom. Thickness        | 0.20 mm                  |
| Diameter              | Φ 0.90 mm (± 0.05mm)     |
| Color Cord            | Chromatogram             |
| Elongation            | ≥300%                    |
| <b>3) Paired :</b>    |                          |
| Length of Lay         | <30mm                    |
| <b>4) Cabling :</b>   |                          |
| Structure             | 1P+6×4 P                 |
| Order of the Pair     | See the Cross Section    |
| Material of Tape      | PET Tape                 |
| Superposition         | 25%                      |
| <b>5) Sheath :</b>    |                          |
| Material              | PVC - Polyvinyl Chloride |
| Color                 | Blue                     |
| Rip Cord              | 500D × 3                 |
| Thickness             | 0.80 mm (± 0.05mm)       |
| O.D.                  | Φ 13.0 mm (± 0.5mm)      |
| Color                 | Per Customer             |
| Marking               | Per Customer             |
| <b>6) Packing :</b>   |                          |
| Packing Mark          | Accord to Contract       |
| Appearance            | Orderliness              |
| Reel                  | Per Request              |

| Frequency (MHz) | RL (dB)          | SRL (dB)         | ATTEN (dB/100m)    | NEXT (dB/100m)  |
|-----------------|------------------|------------------|--------------------|-----------------|
| 1               | 17.0             | 23.0             | 2.0                | 62.3            |
| 4               | 18.8             | 23.0             | 4.0                | 53.3            |
| 8               | 19.7             | 23.0             | 5.7                | 48.8            |
| 10              | 20.0             | 23.0             | 6.4                | 47.3            |
| 16              | 20.0             | 23.0             | 8.2                | 44.2            |
| 20              | 20.0             | 23.0             | 9.2                | 42.8            |
| 25              | 19.3             | 22.0             | 10.3               | 41.3            |
| 31.25           | 18.6             | 21.1             | 11.6               | 39.9            |
| 62.5            | 16.5             | 18.1             | 16.8               | 35.4            |
| 100             | 15.1             | 16.0             | 21.7               | 32.3            |
| Frequency (MHz) | PSNEXT (dB/100m) | ELFEXT (dB/100m) | PSELFEXT (dB/100m) | Delay (ns/100m) |
| 1               | 62.3             | 61.0             | 61.0               | 45.0            |
| 4               | 53.3             | 49.0             | 49.0               | 45.0            |
| 8               | 48.8             | 42.9             | 42.9               | 45.0            |
| 10              | 47.3             | 41.0             | 41.0               | 45.0            |
| 16              | 44.2             | 36.9             | 36.9               | 45.0            |
| 20              | 42.8             | 35.0             | 35.0               | 45.0            |
| 25              | 41.3             | 33.0             | 33.0               | 45.0            |
| 31.25           | 39.9             | 31.1             | 31.1               | 45.0            |
| 62.5            | 35.4             | 25.1             | 25.1               | 45.0            |
| 100             | 32.3             | 21.0             | 21.0               | 45.0            |

**Cable Color Cord**

| Pair No. | Color           | Pair No. | Color            | Pair No. | Color            |
|----------|-----------------|----------|------------------|----------|------------------|
| 1        | a white(blue)   | 10       | a red(gray)      | 19       | a yellow(brown)  |
|          | b blue(white)   |          | b gray(red)      |          | b brown(yellow)  |
| 2        | a white(orange) | 11       | a black(blue)    | 20       | a yellow(gray)   |
|          | b orange(white) |          | b blue(black)    |          | b gray(yellow)   |
| 3        | a white(green)  | 12       | a black(orange)  | 21       | a violet(blue)   |
|          | b green(white)  |          | b orange(black)  |          | b blue(violet)   |
| 4        | a white(brown)  | 13       | a black(green)   | 22       | a violet(orange) |
|          | b brown(white)  |          | b green(black)   |          | b orange(violet) |
| 5        | a white(gray)   | 14       | a black(brown)   | 23       | a violet(green)  |
|          | b gray(white)   |          | b brown(black)   |          | b green(violet)  |
| 6        | a red(blue)     | 15       | a black(gray)    | 24       | a violet(brown)  |
|          | b blue(red)     |          | b gray(black)    |          | b brown(violet)  |
| 7        | a red(orange)   | 16       | a yellow(blue)   | 25       | a violet(gray)   |
|          | b orange(red)   |          | b blue(yellow)   |          | b gray(violet)   |
| 8        | a red(green)    | 17       | a yellow(orange) |          |                  |
|          | b green(red)    |          | b orange(yellow) |          |                  |
| 9        | a red(brown)    | 18       | a yellow(green)  |          |                  |
|          | b brown(red)    |          | b green(yellow)  |          |                  |

**Other Characteristics**

|        |                        |
|--------|------------------------|
| Length | 1000 Ft / Plywood Drum |
|        | 500m / Plywood Drum    |
|        | 1000m / Plywood Drum   |