



| Content of the Data Sheet         |   |   |      |        |
|-----------------------------------|---|---|------|--------|
| Sheath Printing                   | TBD                                       |   |      |        |
| Customer No.                      |   | Customer Reference                                  |      |        |
| Category                          | U/UTP CAT5E-4P-PVC                        |   |      |        |
| Reference Standard                | ISO/IEC11801, TIA-568-C.2                 |   |      |        |
| Conductor                         | Material                                  | Solid-Bare Copper                                   |      |        |
|                                   | Nom.O.D. (mm)                             | 0.500   | up   | +0.005 |
|                                   |   |   | down | -0.005 |
| Insulation                        | Material                                  | HDPE  |      |        |
|                                   | Diameter                                  | 0.88±0.05 mm  |      |        |
| Sheath                            | Thickness                                 | 0.50±0.05 mm  |      |        |
|                                   | External O.D.                             | 5.0±0.4 mm  |      |        |
|                                   | Surface                                   | Clean, Frap, Satiation                              |      |        |
|                                   | Material                                  | PVC (complies RoHS)                                 |      |        |
|                                   | Color                                     | TBD   |      |        |
| Surface Printing                  | Letter height                             | 3.0±0.3 mm  |      |        |
|                                   | Color                                     | Black   |      |        |
|                                   | Print error & Space                       | ≤±0.5%, 1 m   |      |        |
| Core Color                        | 1. White-Blue /Blue                       | 2. White-Orange /Orange                             |      |        |
|                                   | 3. White-Green /Green                     | 4. White-Brown /Brown                               |      |        |
| Packing                           | Wooden Tray & Carton                      |   |      |        |
| Carton dimension                  | According to the requires                 |   |      |        |
| Packing length                    | (305±1.5) m                               |   |      |        |
| Rip-cord                          | Yes                                       | Drain wire  | No   |        |
| Sheath Physical Properties        | Before Aging                              | Tensile Strength (Mpa) ≥13.5<br>Elongation (%) ≥150 |      |        |
|                                   | Aging Period (°C×hrs.)                    | 100°C×24h×7d  |      |        |
|                                   | After Aging                               | Tensile Strength (Mpa) ≥12.5<br>Elongation (%) ≥125 |      |        |
|                                   | Cold bend (-20±2°C×4h) 8×Cable O.D.,      | No visible cracks                                   |      |        |
| Electrical Characteristics (20°C) | 1.0-100.0MHz Impedance (Ω)                | 100±15  |      |        |
|                                   | 1.0-100.0MHz Delay Skew (ns/100m)         | ≤45   |      |        |
|                                   | DC Resistance (Ω/100m) max                | 9.5   |      |        |
|                                   | DC Conductor Resistance Unbalance (%) max | 5.0   |      |        |

| Technical Performance (100m): |        |         |          |                 |
|-------------------------------|--------|---------|----------|-----------------|
| Frequency (MHz)               | RL ≥dB | ATT ≤dB | NEXT ≥dB | Phase DELAY ≤ns |
| 1                             | 20.0   | 2.0     | 65.3     | 570.00          |
| 4.0                           | 23.0   | 4.1     | 56.3     | 552.00          |
| 8.0                           | 24.5   | 5.8     | 51.8     | 546.73          |
| 10.0                          | 25.0   | 6.5     | 50.3     | 545.38          |
| 16.0                          | 25.0   | 8.2     | 47.2     | 543.00          |
| 20.0                          | 25.0   | 9.3     | 45.8     | 542.05          |
| 25.0                          | 24.3   | 10.4    | 44.3     | 541.20          |
| 31.25                         | 23.6   | 11.7    | 42.9     | 540.44          |
| 62.5                          | 21.5   | 17.0    | 38.4     | 538.55          |
| 100                           | 20.1   | 22.0    | 35.3     | 537.60          |

| Frequency (MHz) | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|-----------------|------------|------------|--------------|
| 1               | 62.3       | 63.8       | 60.8         |
| 4               | 53.3       | 51.8       | 48.8         |
| 8               | 48.8       | 45.7       | 42.7         |
| 10              | 47.3       | 43.8       | 40.8         |
| 16              | 44.4       | 39.7       | 36.7         |
| 20              | 42.8       | 37.8       | 34.8         |
| 25              | 41.3       | 35.8       | 32.8         |
| 31.25           | 39.9       | 33.9       | 30.9         |
| 62.5            | 35.4       | 27.9       | 24.9         |
| 100             | 32.3       | 23.8       | 20.8         |