



Content of the Data Sheet

|  |  |                        |         |        |                               |            |            |              |                 |  |
|--|--|------------------------|---------|--------|-------------------------------|------------|------------|--------------|-----------------|--|
| Sheath Printing  | TBD  |                        |         |        |                               |            |            |              |                 |  |
| Customer No.   |  | Customer Reference     |         |        |                               |            |            |              |                 |  |
| Category   | S/FTP-CAT7-4P-LSZH                             |                        |         |        |                               |            |            |              |                 |  |
| Reference Standard                                     | ISO/IEC 61156-5, EN 50288-4                    |                        |         |        |                               |            |            |              |                 |  |
| Conductor  | Material                                       | Solid-Bare Copper      |         |        |                               |            |            |              |                 |  |
|  | Nom.O.D. (mm)                                  | 0.560                  | up      | +0.005 |                               |            |            |              |                 |  |
|  |  |                        | down    | -0.005 |                               |            |            |              |                 |  |
| Insulation   | Material                                       | Skin-foam-skin PE      |         |        |                               |            |            |              |                 |  |
|  | Diameter                                       | 1.330±0.05 mm          |         |        |                               |            |            |              |                 |  |
| Inner Screening Material                               | Al/Mylar                                       | Drain wire             | Yes     |        |                               |            |            |              |                 |  |
| Outer Screening Material                               | Aluminum-magnesium alloy 0.12mm                | Coverage               | ≥30%    |        |                               |            |            |              |                 |  |
| Sheath   | Thickness                                      | 0.55±0.05 mm           |         |        | Technical Performance (100m): |            |            |              |                 |  |
|  | External O.D.                                  | 7.6±0.5 mm             |         |        | Frequency (MHz)               | RL ≥dB     | ATT ≤dB    | NEXT ≥dB     | PHASE DELAY ≤ns |  |
|  | Surface  | Clean, Frap, Satiation |         |        | 1.0                           | 20.0       | —          | 78.0         | 570.0           |  |
|  | Material                                       | LSZH (complies RoHS)   |         |        | 4.0                           | 23.0       | 3.74       | 78.0         | 552.0           |  |
|  | Color  | TBD                    |         |        | 8.0                           | 24.5       | 5.24       | 78.0         | 546.7           |  |
| Surface Printing                                       | Letter height                                  | 3.0±0.3 mm             |         |        | 10.0                          | 25.0       | 5.86       | 78.0         | 545.4           |  |
|  | Color  | Black                  |         |        | 16.0                          | 25.0       | 7.41       | 78.0         | 543.0           |  |
|  | Print error & Space                            | ±0.5%, 1 m             |         |        | 20.0                          | 25.0       | 8.29       | 78.0         | 542.0           |  |
|  |  |                        |         |        | 25.0                          | 24.3       | 9.29       | 78.0         | 541.2           |  |
| Core Color   | 1. White/Blue                                  | 2. White/Orange        |         |        | 31.25                         | 23.6       | 10.41      | 78.0         | 540.4           |  |
|  | 3. White/Green                                 | 4. White/Brown         |         |        | 62.5                          | 21.5       | 14.88      | 75.5         | 538.6           |  |
| Packing  | Drum   |                        |         |        | 100                           | 20.1       | 19.02      | 72.4         | 537.6           |  |
| Wooden Tray dimension                                  | According to the requires                      |                        |         |        | 150                           | 18.9       | 23.56      | 69.8         | 536.9           |  |
| Packing length   | 305±1.0 m                                      |                        |         |        | 200                           | 18.0       | 27.47      | 67.9         | 536.5           |  |
| Rip-cord   | Yes  |                        |         |        | 250                           | 17.3       | 30.97      | 66.4         | 536.3           |  |
| Sheath Physical Properties                             | Before Aging                                   | Tensile Strength (Mpa) | ≥10.0   |        | 300                           | 17.3       | 34.19      | 65.2         | 536.1           |  |
|  |  | Elongation (%)         | ≥125    |        | 600                           | 17.3       | 50.10      | 60.7         | 535.5           |  |
|  | Aging Period (°C×hrs.)                         | 100°C×24h×7d           |         |        | Frequency (MHz)               | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |                 |  |
|  | After Aging                                    | Tensile Strength (Mpa) | ≥8.0    |        | 1                             | 75.0       | 78.0       | 75.0         |                 |  |
|  |  | Elongation (%)         | ≥100    |        | 4                             | 75.0       | 78.0       | 75.0         |                 |  |
| Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks |  |                        |         |        | 8                             | 75.0       | 75.9       | 72.9         |                 |  |
| Electrical Characteristics (20°C)                      | Impedance(Ω)                                   | (1-100MHz)             | 100±15Ω |        | 10                            | 75.0       | 74.0       | 71.0         |                 |  |
|  |  | (100-250MHz)           | 100±18Ω |        | 16                            | 75.0       | 69.9       | 66.9         |                 |  |
|  |  | (250-600MHz)           | 100±25Ω |        | 20                            | 75.0       | 68.0       | 65.0         |                 |  |
|  | Delay Skew (ns/100m)                           | ≤25                    |         |        |                               | 25         | 75.0       | 66.0         | 63.0            |  |
|  | Velocity of Propagation (%)                    | 74                     |         |        |                               | 31.25      | 75.0       | 64.1         | 61.1            |  |
| Characteristics (20°C)                                 | unbalanced-to-ground capacitance (pf/100m) max | 330                    |         | 62.5   | 72.5                          | 58.1       | 55.1       |              |                 |  |
|  | DC Resistance (Ω/100m) max                     | 9.38                   |         | 100    | 69.4                          | 54.0       | 51.0       |              |                 |  |
|  | DC Conductor Resistance Unbalance (%) max      | 2.0                    |         | 150    | 66.8                          | 50.2       | 47.2       |              |                 |  |
|  |  |                        |         | 200    | 64.9                          | 48.0       | 45.0       |              |                 |  |
|  |  |                        |         | 250    | 63.4                          | 46.0       | 43.0       |              |                 |  |
|  |  |                        |         | 300    | 62.2                          | 44.5       | 41.5       |              |                 |  |
|  |  |                        |         | 600    | 57.7                          | 38.4       | 35.4       |              |                 |  |