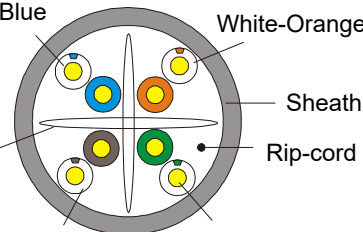


U/UTP 4Pairs cable-category6-FR LSZH Sheath

P/N: LG2401-238

| Content of the Data Sheet                       |      |                                                            |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
|-------------------------------------------------|------|------------------------------------------------------------|--------------------|-----------------------------|------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|-----------------|------|--------|------|
| Sheath Printing                                 |      | TBD                                                        |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Customer No.                                    |      |                                                            | Customer Reference |                             |            |                                              | <div>White-Blue /Blue</div> <div>White-Orange /Orange</div> <div>Sheath</div> <div>Rip-cord</div> <div>Separator</div> <div>White-Brown /Brown</div> <div>White-Green /Green</div>  |               |           |                 |      |        |      |
| Category                                        |      | U/UTP CAT6-4P-LSZH (B2ca)                                  |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Reference Standard                              |      | ISO/IEC11801、TIA-568-C.2                                   |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Conductor                                       |      | Material                                                   |                    | SOLID-Bare Copper           |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
|                                                 |      | Nom.O.D.(mm)                                               |                    | 0.530                       | up         | +0.005                                       |                                                                                                                                                                                                                                                                        |               |           |                 | down | -0.005 |      |
| Insulation                                      |      | Material                                                   |                    | HDPE                        |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
|                                                 |      | Diameter                                                   |                    | 0.93±0.08mm                 |            |                                              |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Filling                                         |      | Plastic Separator : FRPE                                   |                    |                             |            | Technical Performance:                       |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Sheath                                          |      | Thickness                                                  |                    | 0.65±0.1 mm                 |            | Frequency (MHz)                              | RL ≥dB                                                                                                                                                                                                                                                                 | ATT (20℃) ≤dB | NEXT ≥dB  | PHASE DELAY ≤ns |      |        |      |
|                                                 |      | External O.D.                                              |                    | 5.8±0.4 mm                  |            | 1                                            | 20.0                                                                                                                                                                                                                                                                   | 2.03          | 74.3      | 570.00          |      |        |      |
|                                                 |      | Surface                                                    |                    | Clean, Frap, Satiation      |            | 4.0                                          | 23.0                                                                                                                                                                                                                                                                   | 3.78          | 65.3      | 552.00          |      |        |      |
|                                                 |      | Material                                                   |                    | FR-LSZH(complies RoHS)      |            | 8.0                                          | 24.5                                                                                                                                                                                                                                                                   | 5.32          | 60.8      | 546.73          |      |        |      |
|                                                 |      | Color                                                      |                    | TBD                         |            | 10.0                                         | 25.0                                                                                                                                                                                                                                                                   | 5.95          | 59.3      | 545.38          |      |        |      |
| Surface Printing                                |      | Letter height                                              |                    | 3.0±0.3mm                   |            | 16.0                                         | 25.0                                                                                                                                                                                                                                                                   | 7.55          | 56.2      | 543.00          |      |        |      |
|                                                 |      | Color                                                      |                    | Black                       |            | 20.0                                         | 25.0                                                                                                                                                                                                                                                                   | 8.47          | 54.8      | 542.05          |      |        |      |
|                                                 |      | Print error & Space                                        |                    | ≤±0.5%, 1m                  |            | 25.0                                         | 24.3                                                                                                                                                                                                                                                                   | 9.51          | 53.3      | 541.20          |      |        |      |
|                                                 |      |                                                            |                    |                             |            | 31.25                                        | 23.6                                                                                                                                                                                                                                                                   | 10.67         | 51.9      | 540.44          |      |        |      |
| Core Color                                      |      | 1 White- Blue /Blue                                        |                    | 2 White-Orange /Orange      |            | 62.5                                         | 21.5                                                                                                                                                                                                                                                                   | 15.38         | 47.7      | 538.55          |      |        |      |
|                                                 |      | 3 White-Green /Green                                       |                    | 4 White- Brown /Brown       |            | 100                                          | 20.1                                                                                                                                                                                                                                                                   | 19.80         | 44.3      | 537.60          |      |        |      |
| Packing                                         |      | Drum                                                       |                    |                             |            | 200                                          | 18.0                                                                                                                                                                                                                                                                   | 28.98         | 39.8      | 536.54          |      |        |      |
| Carton dimension                                |      | According to the requires                                  |                    |                             |            | 250                                          | 17.3                                                                                                                                                                                                                                                                   | 32.85         | 38.3      | 536.27          |      |        |      |
| Packing length                                  |      | 305±1.5m                                                   |                    |                             |            | Frequency PSNEXT ≥dB ELFEXT ≥dB PSELFEXT ≥dB |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Rip-cord                                        |      | Yes                                                        |                    | Drain wire                  |            | No                                           |                                                                                                                                                                                                                                                                        | 1             |           |                 | 72.3 | 67.8   | 64.8 |
| Sheath Physical Properties                      |      | Before Aging                                               |                    | Tensile Strength (Mpa) ≥9.0 |            |                                              |                                                                                                                                                                                                                                                                        | 4             |           | 63.3            | 55.8 | 52.8   |      |
|                                                 |      |                                                            |                    | Elongation (%) ≥100         |            |                                              |                                                                                                                                                                                                                                                                        | 8             |           | 58.8            | 49.7 | 46.7   |      |
|                                                 |      | Aging Period (℃×hrs)                                       |                    | 100℃×24h×7d                 |            |                                              |                                                                                                                                                                                                                                                                        | 10            |           | 57.3            | 47.8 | 44.8   |      |
|                                                 |      | After Aging                                                |                    | Tensile Strength (Mpa) ≥8.0 |            |                                              |                                                                                                                                                                                                                                                                        | 16            |           | 54.2            | 43.7 | 40.7   |      |
|                                                 |      |                                                            |                    | Elongation (%) ≥70          |            |                                              |                                                                                                                                                                                                                                                                        | 20            |           | 52.8            | 41.8 | 38.8   |      |
| Electrical Characteristics (20℃)                |      | Cold bend (-20±2℃×4h) 15times cable O.D. No visible cracks |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        | 25            |           | 51.3            | 39.8 | 36.8   |      |
|                                                 |      | 1.0-250.0MHz, Characteristic impedance (Ω) 100±15          |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        | 31.25         |           | 49.9            | 37.9 | 34.9   |      |
|                                                 |      | 1.0-250.0MHz, Delay Skew 20℃(ns/100m) ≤45                  |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        | 62.5          |           | 45.4            | 31.9 | 28.9   |      |
|                                                 |      | DC Resistance (Ω/100m) max 9.38                            |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        | 100           |           | 42.3            | 27.8 | 24.8   |      |
|                                                 |      | DC Conductor Resistance Unbalance (%) max 5.0              |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        | 200           |           | 37.8            | 21.8 | 18.8   |      |
|                                                 |      |                                                            |                    |                             |            |                                              |                                                                                                                                                                                                                                                                        | 250           |           | 36.3            | 19.8 | 16.8   |      |
| Reaction to fire Classification: B2ca,s1a,d1,a1 |      |                                                            |                    |                             |            | CPR Part no. G2401-191                       |                                                                                                                                                                                                                                                                        |               |           |                 |      |        |      |
| Version                                         | A/03 | Date                                                       | 2024-01-10         | Revised By                  | Caihanglie | Audited By                                   | Nidonghua                                                                                                                                                                                                                                                              | Approved By   | Nidonghua |                 |      |        |      |

| Number | Revise Contents         | Revise Reasons | Revised By | Audited By | Approved By | Date       |
|--------|-------------------------|----------------|------------|------------|-------------|------------|
| A/01   | Specification Version 1 |                | Caihanglie | Nidonghua  | Nidonghua   | 2019-11-21 |
| A/02   | Specification Version 2 |                | Caihanglie | Nidonghua  | Nidonghua   | 2023-12-14 |
| A/03   | Specification Version 3 |                | Caihanglie | Nidonghua  | Nidonghua   | 2024-01-10 |
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