

## SF/UTP 4Pairs cable-category 6-PVC+PVC Sheath

P/N: G2403-093

### Content of the Data Sheet

|                                  |  |                                            |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|----------------------------------|--|--------------------------------------------|--|----------------------------------|------------------------|------------|--------|------------|--|------------|--|------------|--|-----------|--|-------------|--|-----------|--|
| Sheath Printing                  |  | TBD                                        |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Customer No.                     |  |                                            |  | Customer Reference               |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Category                         |  | SF/UTP-CAT6-4P-PVC+PVC UV-TC30             |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Reference Standard               |  | ISO/IEC11801、ANSI/TIA-568.2-D              |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Conductor                        |  | Material                                   |  | SOLID-Bare Copper                |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Nom.O.D.(mm)                               |  | 0.565                            |                        | up         |        | +0.005     |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  |                                            |  |                                  |                        | down       |        | -0.005     |  |            |  |            |  |           |  |             |  |           |  |
| Insulation                       |  | Material                                   |  | HDPE                             |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Diameter                                   |  | 1.12±0.08 mm                     |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Inner Screening Material         |  | Mylar+AL/Mylar                             |  | Drain wire                       |                        |            | No     |            |  |            |  |            |  |           |  |             |  |           |  |
| Outer Screening Material         |  | Tinned copper                              |  |                                  | Coverage               |            | ≥30%   |            |  |            |  |            |  |           |  |             |  |           |  |
| Inner Sheath                     |  | Material                                   |  | PVC                              |                        | Color      |        | TBD        |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Thickness                                  |  | 0.55±0.1 mm                      |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Outer Sheath                     |  | Thickness                                  |  | 0.55±0.1 mm                      |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | External O.D.                              |  | 9.0±0.5 mm                       |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Surface                                    |  | Clean,Frap,Satiation             |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Material                                   |  | PVC(complies RoHS), UV Resistant |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Color                                      |  | Black                            |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Surface Printing                 |  | Letter height                              |  | 3.0±0.3mm                        |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Color                                      |  | White                            |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Print error & Space                        |  | ≤±0.5%, 1m                       |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Core Color                       |  | 1 White- Blue /Blue                        |  |                                  | 2 White-Orange /Orange |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | 3 White- Green /Green                      |  |                                  | 4 White- Brown /Brown  |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Packing                          |  | Drum                                       |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Wooden Tray dimension            |  | According to the requires                  |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Packing length                   |  | 305±1.5m                                   |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Rip-cord                         |  | Yes                                        |  |                                  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Sheath Physical Properties       |  | Before Aging                               |  | Tensile Strength (Mpa)           |                        |            | ≥13.5  |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  |                                            |  | Elongation (%)                   |                        |            | ≥150   |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Aging Period (℃×hrs)                       |  | 100℃×24h×7d                      |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | After Aging                                |  | Tensile Strength (Mpa)           |                        |            | ≥12.5  |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  |                                            |  | Elongation (%)                   |                        |            | ≥125   |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | Cold bend (-20±2℃×4h)                      |  | 8×Cable O.D., No visible cracks  |                        |            |        |            |  |            |  |            |  |           |  |             |  |           |  |
| Electrical Characteristics (20℃) |  | 1.0-250.0MHz                               |  | Impedance (Ω)                    |                        |            | 100±15 |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | 1.0-250.0MHz                               |  | Delay Skew (ns/100m)             |                        |            | ≤45    |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | unbalanced-to-ground capacitance (pf/100m) |  | max                              |                        |            | 330    |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | DC Resistance (Ω/100m)                     |  | max                              |                        |            | 9.38   |            |  |            |  |            |  |           |  |             |  |           |  |
|                                  |  | DC Conductor Resistance Unbalance (%)      |  | max                              |                        |            | 5.0    |            |  |            |  |            |  |           |  |             |  |           |  |
| Version                          |  | A/02                                       |  | Date                             |                        | 2024-01-11 |        | 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   | 2022-11-29 |
| A/02   | Specification Version 2 |                | Caihanglie | Nidonghua  | Nidonghua   | 2024-01-11 |
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