



# PRODUCTION SPECIFICATION SHEET

| Configuration & physical Characters: |                             |  | Electric Characters:      |                        | Performance Characteristics(meet TIA/EIA-568-C.2 Category 5e perm.link requirements) |                 |                                    |  |             |          |            |           |             |  |
|--------------------------------------|-----------------------------|--|---------------------------|------------------------|--|-----------------|------------------------------------|--|-------------|----------|------------|-----------|-------------|--|
| Type of cable                        | FTP                         |  | 1.Mutual Capacitance      | 4.6nF/100m Max         | Freq (Mhz)   | Insert loss(dB) | RL(dB)                             | NEXT (dB)                                | PSNEX T(dB) | ACR (dB) | PSACR (dB) | ACRF (dB) | PSACRF (dB) |  |
| Length per reel                      | 1000ft                      |  | 2.Conductor Resistance    | MAX 9.38Ω/100m at 20°C | 1  | 3.0             | 19.0                               | 60.0                                     | 57.0        | 57.0     | 54.0       | 58.6      | 55.6        |  |
| Number of pairs                      | 4                           |  | 3.Insulation Resistance   | MIN 150MΩ/KM           | 4  | 3.9             | 19.0                               | 54.8                                     | 51.8        | 50.9     | 47.9       | 46.6      | 43.6        |  |
| Field of application                 | indoor                      |  | 4.Capacitance Unbalance   | MAX 330pF/100m         | 8  | 5.5             | 19.0                               | 50.0                                     | 47.0        | 44.5     | 41.5       | 40.6      | 37.6        |  |
| Category                             | Cat.5e                      |  | 5. Resistance Unbalance   | MAX 5%                 | 10   | 6.2             | 19.0                               | 48.5                                     | 45.5        | 42.3     | 39.3       | 38.6      | 35.6        |  |
| Fire safety                          | /                           |  | 6.Skew                    | 45ns/100m max          | 16   | 7.9             | 19.0                               | 45.2                                     | 42.2        | 37.3     | 34.3       | 34.5      | 31.5        |  |
| Conductor                            | Material                    | Bare Copper  | 7.Velocity of Propagation | 74% nom                | 20   | 83.9            | 19.0                               | 43.7                                     | 40.7        | 34.8     | 31.8       | 32.6      | 29.6        |  |
|                                      | Size                        | 24AWG  | 8.Impedance               | 100±15Ω                | 25   | 10.0            | 18.0                               | 42.1                                     | 39.1        | 32.1     | 29.1       | 30.7      | 27.7        |  |
|                                      | Construction                | 1/0.50±0.01  |                           |                        |  |                 |                                    |  |             |          |            |           |             |  |
| Insulation                           | Material                    | HDPE   |                           |                        | 31.25  | 11.2            | 17.1                               | 40.5                                     | 37.5        | 29.3     | 26.3       | 28.7      | 25.7        |  |
|                                      | Thickness                   | MIN at any point: 0.15mm<br>MAX AVG:0.24mm                         |                           |                        | 62.5   | 16.2            | 14.1                               | 35.7                                     | 32.7        | 19.4     | 16.4       | 22.7      | 19.7        |  |
|                                      | Diameter                    | 1.02 ± 0.02  |                           |                        | 100  | 21.0            | 12.1                               | 32.3                                     | 29.3        | 11.3     | 8.3        | 18.6      | 15.6        |  |
|                                      | Colors                      | Blue/White-Blue  |                           |                        | Standard   |                 | Supported Category 5e Applications |  |             |          |            |           |             |  |
|                                      |                             | Orange/White-Orange  |                           |                        | International ISO/IEC  |                 | Standard                           | APPLICATION                              | SPEED       |          |            |           |             |  |
|                                      |                             | Green/White-Green  |                           |                        | 11801  | IEEE 802.3      | 1000BASE-T                         | 1Gb/s                                    |             |          |            |           |             |  |
|                                      |                             | Brown/White-Brown  |                           |                        | National ANSI/TIA-568-C.2;   |                 | ATM                                | 155Mb/s                                  | 155Mb/s     |          |            |           |             |  |
| Elongation                           | MIN 300%                    |  |                           | IEEE 802.3             | 100BASE-TX   | 100Mb/s         |                                    |  |             |          |            |           |             |  |
| Tensile strength                     | MIN 1.682Kg/mm <sup>2</sup> |  |                           | CDDI                   |  | 100Mb/s         |                                    |  |             |          |            |           |             |  |
|                                      |                             |  |                           | IEEE 802.3             | 10BASE-T   | 10Mb/s          |                                    |  |             |          |            |           |             |  |
| Jacket                               | Material                    | PVC  | DRAWN                     | Jason                  | APPROVED   |                 | REV.                               | P/N:                                     |             |          |            |           |             |  |
|                                      | Thickness                   | MIN at any point: 0.40mm<br>MAX AVG: 0.58mm                        | DATE                      | 07/06/2012             | DATE   |                 | A                                  | DESCRIPTION: Shielded Cat5e CABLE        |             |          |            |           |             |  |
|                                      | Diameter                    | 5.9 ± 0.2MM  | SHEET OF                  |                        |  |                 |                                    | Kunshan BYB Cable & Solar Energy CO.,LTD |             |          |            |           |             |  |
|                                      | Colors                      | Per request  | SIZE                      | A4                     | SCALE  | N.T.S           |                                    |  |             |          |            |           |             |  |
|                                      | Aging at 100°C for 168Hrs   | MIN ELONGATION RETENTION:50%<br>MIN TENSILE STRENGTH RETENTION:75% |                           |                        |  |                 |                                    |  |             |          |            |           |             |  |
| DIMENSIONS ARE IN mm                 |                             |  | TOLERANCES ARE            |                        |  |                 |                                    |  |             |          |            |           |             |  |
|                                      |                             |  | FRACTIONS DECIMALS ANGLE  |                        |  |                 |                                    |  |             |          |            |           |             |  |
| MOLD NO.                             |                             |  | .X±0.20                   |                        |  |                 |                                    |  |             |          |            |           |             |  |
|                                      |                             |  | .XX±0.12                  |                        |  |                 |                                    |  |             |          |            |           |             |  |

## FTP CAT5E IONNET CABLE