

## Cat6 Shielded Solid Direct Burial Cable

### Product Part Number

- 85-600-350 BK

### Product Description

- F/UTP, 23AWG solid bare copper, CAT.6, CMX outdoor
- With cross filler
- Overall metal foil screen with drain wire
- Sunlight resistant
- With water-blocking tape

### Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 400 MHz.

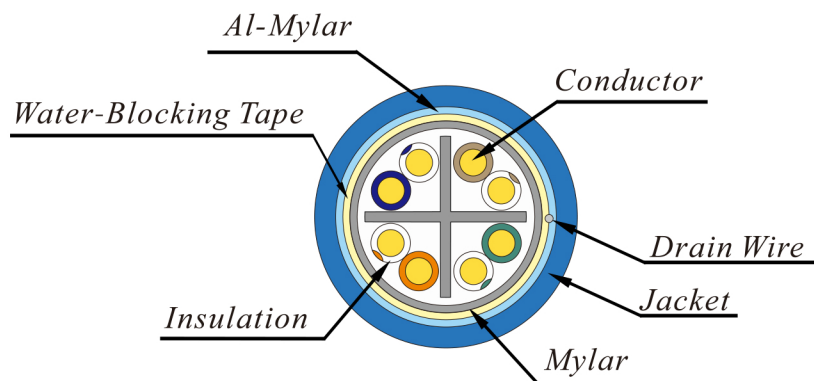
### Application

- For outdoor and direct burial use.
- Transmission of digital and analogue for data, video and audio applications.
- Overall metal shielded providing good protection from EMI noise.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

### Applicable Standard

- Electrical Transmission
  - ANSI/TIA-568-C.2 (2009)
  - ISO/IEC 11801 (Edition 2.2)
  - IEC 61156-5 (Edition 2.0)
- Flame Test
  - UL 2556 (CMX)
- Material and Construction
  - UL 444
  - CSA 22.2 NO.214
- EU Directive 2011/65/EC (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

### Sectional Drawing



## Cat6 Shielded Solid Direct Burial Cable

### Material and Construction

|                            |  |   |                |
|----------------------------|--|---|----------------|
| Conductor                  | Material   | 23AWG solid bare copper   |                |
| Insulation                 | Material   | Polyolefin (PO)   |                |
|                            | Color code & diameter  | Blue & white/blue Stripe  | 1.08 ± 0.02 mm |
|                            |  | Orange & white/orange stripe  | 1.03 ± 0.02 mm |
|                            |  | Green & white/green stripe  | 1.06 ± 0.02 mm |
| Brown & white/brown stripe |  | 1.03 ± 0.02 mm  |                |
| Twisted                    | Description  | Left hand direction   |                |
| Filler                     | Material   | Polyolefin (PO)   |                |
| Assembly                   | Description  | Left hand direction   |                |
| Shield                     | Material   | Water-blocking tape   |                |
| Drain wire                 | Material   | 24AWG solid tinned copper   |                |
| Shield                     | Material   | Al Mylar tape   |                |
|                            | Description  | 100 % coverage and mylar side facing out                              |                |
| Jacket                     | Material   | Flame retardant polyvinyl chloride (FRPVC)<br>or<br>Polyethylene (PE) |                |
|                            | Diameter   | 7.50 ± 0.2 mm   |                |
|                            | Thickness  | 0.50 ± 0.05 mm  |                |
|                            | Color  | Per customer's request  |                |
| Marking                    | <p>ELITE 1000X CAT6 EGIGASYSTEM T ESTED TO 400MHz-- E142890 FTP 4PR 23AWG 75 ☒ C(UL)US<br/> CMX OUTDOOR UV resistant DIRECT BURIAL --- ETL VERIFIED TO TIA - 568-C.2 mmyy RoHS<br/> COMPLIANT XXXXFT</p> <p>Note 1: mmyy is date code.</p> |   |                |

### Usage & Environmental Condition

|                         |                               |               |
|-------------------------|-------------------------------|---------------|
| Temperature range       | Storage & shipping            | -20°C to 75°C |
|                         | Installation                  | 0°C to 60°C   |
|                         | Operation                     | -20°C to 60°C |
| Minimum bending radius  | ≥ 4 times of overall diameter |               |
| Maximum pulling tension | ≤ 110 N                       |               |

## Cat6 Shielded Solid Direct Burial Cable

### Physical & Electrical Characteristics (at 20°C)

|   |                   |
|---|-------------------|
| Temperature & voltage rating              | 75°C / 300V       |
| Spark test                                | 2.5 KV DC         |
| AC leakage current through overall jacket | ≤ 10mA (1.5KV AC) |
| Cable cold bend                           | -20°C for 4 hr    |
| Conductor DC resistance                   | ≤ 9.38 Ω /100m    |
| Resistance unbalance                      | ≤ 5%              |
| Dielectric strength                       | 1.5 KV ac for 2 s |
| Insulation resistance                     | ≥ 5000 MΩ• m      |
| Mutual capacitance                        | ≤ 5.6 nF/100m     |
| Capacitance unbalance pair-to-ground      | ≤ 330 pF/100m     |

### Transmission Performance (at 20°C)

| Frequency<br>(MHz) | IL              | NEXT            | PS.NEXT         | ACR             | PS.ACR          | ACRF            | PS.ACRF         | RL              | Propagation<br>Delay | Delay<br>Skew   |
|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|-----------------|
|                    | Max.<br>dB/100m | Min.<br>dB/100m | Min.<br>dB/100m | Min.<br>dB/100m | Min.<br>dB/100m | Min.<br>dB/100m | Min.<br>dB/100m | Min.<br>dB/100m | Max.<br>ns/100m      | Max.<br>ns/100m |
| 1                  | 2.03            | 77.30           | 75.30           | 75.28           | 73.28           | 70.80           | 67.80           | 20.00           | 570.00               | 45.00           |
| 4                  | 3.78            | 68.27           | 66.27           | 64.49           | 62.49           | 58.76           | 55.76           | 23.01           | 552.00               |                 |
| 8                  | 5.32            | 63.75           | 61.75           | 58.43           | 56.43           | 52.74           | 49.74           | 24.52           | 546.73               |                 |
| 10                 | 5.95            | 62.30           | 60.30           | 56.35           | 54.35           | 50.80           | 47.80           | 25.00           | 545.38               |                 |
| 16                 | 7.55            | 59.24           | 57.24           | 51.68           | 49.68           | 46.72           | 43.72           | 25.00           | 543.00               |                 |
| 20                 | 8.47            | 57.78           | 55.78           | 49.31           | 47.31           | 44.78           | 41.78           | 25.00           | 542.05               |                 |
| 25                 | 9.51            | 56.33           | 54.33           | 46.83           | 44.83           | 42.84           | 39.84           | 24.32           | 541.20               |                 |
| 31.25              | 10.67           | 54.88           | 52.88           | 44.20           | 42.20           | 40.90           | 37.90           | 23.64           | 540.44               |                 |
| 62.5               | 15.38           | 50.36           | 48.36           | 34.98           | 32.98           | 34.88           | 31.88           | 21.54           | 538.55               |                 |
| 100                | 19.80           | 47.30           | 45.30           | 27.50           | 25.50           | 30.80           | 27.80           | 20.11           | 537.60               |                 |
| 150                | 24.71           | 44.66           | 42.66           | 19.95           | 17.95           | 27.28           | 24.28           | 18.87           | 536.94               |                 |
| 200                | 28.98           | 42.78           | 40.78           | 13.80           | 11.80           | 24.78           | 21.78           | 18.00           | 536.55               |                 |
| 250                | 32.85           | 41.33           | 39.33           | 8.48            | 6.48            | 22.84           | 19.84           | 17.32           | 536.28               |                 |
| 300                | 36.43           | 40.14           | 38.14           | 3.72            | 1.72            | 21.26           | 18.26           | 16.77           | 536.08               |                 |
| 350                | 39.79           | 39.14           | 37.14           | N.A.            | N.A.            | 19.92           | 16.92           | 16.30           | 535.92               |                 |
| 400                | 42.97           | 38.27           | 36.27           | N.A.            | N.A.            | 18.76           | 15.76           | 15.89           | 535.80               |                 |

Values above 250MHz are for information only.

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### Shipping Information

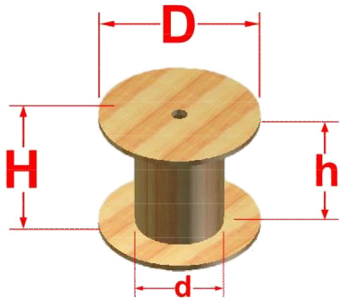
| Item         | Dimension                    | Nominal net weight                                  |
|--------------|------------------------------|---|
| Cable        | 305 m                        | PE 14.98 kg (33.02 lb)<br>FRPVC 16.98 kg (37.43 lb) |
| Plywood reel | D400 x d220 x H270 x h250 mm | 2.0 kg  |
| Pallet       | 1150 x1150 x120 mm           | 14.1 kg   |

| Container type | Capacity of pallet | Capacity of carton |
|----------------|--------------------|--------------------|
| 20 feet        | 20                 | 420                |
| 40 feet        | 40                 | 840                |

Shipping could use standard delivery form or per customer's request.

### Schematic Drawing of Reel & Package

Fumigated plywood reel.

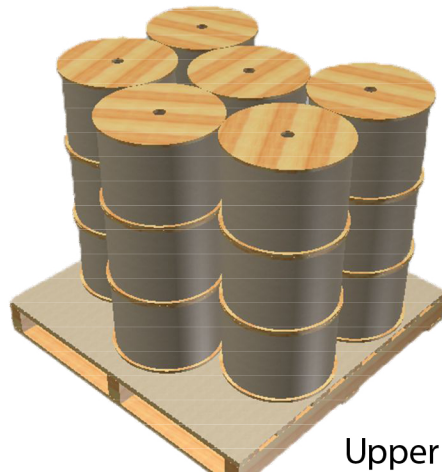


### Schematic Drawing of Package

Each package of pallet delivered with plastic wrap and packing strap.



Lower Pallet



Upper Pallet