

WIREFATH

BULK WIRE

SP-CAT6-DB-1000

U/UTP, 23AWG solid bare copper, CAT.6, CMX outdoor, With cross filler, Sunlight resistant, With water-blocking tape

Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 550 MHz.
- Reelex Ilcarton and easy to pull out.
- Carton with one layer corrugated design providing sufficient strength and saving packaging space.

Application

- For outdoor and direct burial use.
- Transmission of digital and analogue for data, video and audio applications. □ IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

Electrical Transmission

- ANSI/TIA-568-C.2 (2009)
- ISO/IEC 11801 (Edition 2.2)
- IEC 61156-5 (Edition 2.0)

Material and Construction

- UL444
- CSA 22.2 NO.214

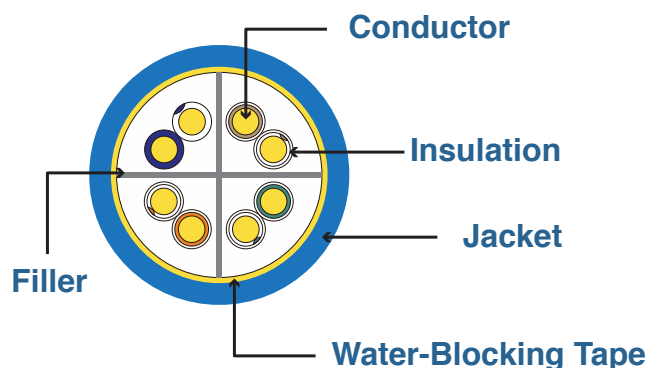
EU Directive 2011/65/EC (RoHS2)

EU Directive 2006/95/EC (LVD)

CE compliance date: 2010.01.01

Flame Test

- UL 2556 (CMX)



WIREFATH

BULK WIRE

| Material and Construction | | | |
|----------------------------|---|------------------------------|----------------|
| Conductor | Material | 23AWG solid bare copper | |
| Insulation | Material | Polyolefin (PO) | |
| | Color code & diameter | Blue & white/blue Stripe | 0.98 ± 0.02 mm |
| | | Orange & white/orange stripe | 0.94 ± 0.02 mm |
| | | Green & white/green stripe | 0.97 ± 0.02 mm |
| Brown & white/brown stripe | | 0.94 ± 0.02 mm | |
| Filler | Material | Polyolefin (PO) | |
| Shield | Material | Water-blocking tape | |
| Jacket | Material | Polyethylene (PE) | |
| | Diameter | 6.7 ± 0.2 mm | |
| | Thickness | 0.50 ± 0.05 mm | |
| | Color | Per customer`s request | |
| Marking | WirePath™ Bulk Wire by SnapAV, E325177-W C(UL)US CMX 4PAIR 23AWG 75°C DIRECT BURIAL, ANSI/TIA-568-C.2, UTP CAT6 UNSHIELDED 550MHz , DDMMYY, 0000/1000 FT ~~~ 0998/0002 FT | | |

| 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 |

WIREFATH

BULK WIRE

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·Km |
| Mutual capacitance | ≤ 5.6 nF/100m |
| Capacitance unbalance pair-to-ground | ≤ 330 pF/100m |

Material and Construction

| Frequency (MHz) | IL | NEXT | PS.NEXT | ACR | PS.ACR | ACRF | PS.ACRF | RL | Propagation Delay | Delay Skew |
|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|-----------------|
| | Max. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Min. dB/100m | Max. ns/100m | Max. ns/100m |
| 1 | 2.04 | 65.30 | 62.30 | 63.26 | 60.26 | 63.80 | 60.80 | 20.00 | 570.00 | 45.00 |
| 4 | 4.05 | 56.27 | 53.27 | 52.22 | 49.22 | 51.76 | 48.76 | 23.01 | 552.00 | |
| 8 | 5.77 | 51.75 | 48.75 | 45.99 | 42.99 | 45.74 | 42.74 | 24.52 | 546.73 | |
| 10 | 6.47 | 50.30 | 47.30 | 43.83 | 40.83 | 43.80 | 40.80 | 25.00 | 545.38 | |
| 16 | 8.25 | 47.24 | 44.24 | 38.99 | 35.99 | 39.72 | 36.72 | 25.00 | 543.00 | |
| 20 | 9.27 | 45.78 | 42.78 | 36.52 | 33.52 | 37.78 | 34.78 | 25.00 | 542.05 | |
| 25 | 10.42 | 44.33 | 41.33 | 33.91 | 30.91 | 35.84 | 32.84 | 24.32 | 541.20 | |
| 31.25 | 11.72 | 42.88 | 39.88 | 31.15 | 28.15 | 33.90 | 30.90 | 23.64 | 540.44 | |
| 62.5 | 16.99 | 38.36 | 35.36 | 21.37 | 18.37 | 27.88 | 24.88 | 21.54 | 538.55 | |
| 100 | 21.98 | 35.30 | 32.30 | 13.33 | 10.33 | 23.80 | 20.80 | 20.11 | 537.60 | |
| 150 | 27.54 | 32.66 | 29.66 | 5.11 | 2.11 | 20.28 | 17.28 | 18.87 | 536.94 | |
| 200 | 32.42 | 30.78 | 27.78 | N.A. | N.A. | 17.78 | 14.78 | 18.00 | 536.55 | |
| 250 | 36.85 | 29.33 | 26.33 | N.A. | N.A. | 15.84 | 12.84 | 17.32 | 536.28 | |
| 300 | 40.97 | 28.14 | 25.14 | N.A. | N.A. | 14.26 | 11.26 | 16.77 | 536.08 | |
| 350 | 44.85 | 27.14 | 24.14 | N.A. | N.A. | 12.92 | 9.92 | 16.30 | 535.92 | |

Values above 100MHz are for information only.