

# UTP Cat 6 SWA LSZH

**Caleb Cable**

**Caleb Cable Industrial Limited**

## Revision History

|                  |                |
|------------------|----------------|
| Part No:         | Price NO:      |
| Prepared by: CXY | Date: 2015/8/5 |
| Approved by:     | Page: 1 of 1   |

**Product Code:** UTP Cat 6 SWA LSZH

## Product Description

### Application:

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Reference Standard

ISO/IEC 11801: 2011; IEC61156-5:2009; ANSI/TIA-568-C.2

EN50173; EN50288

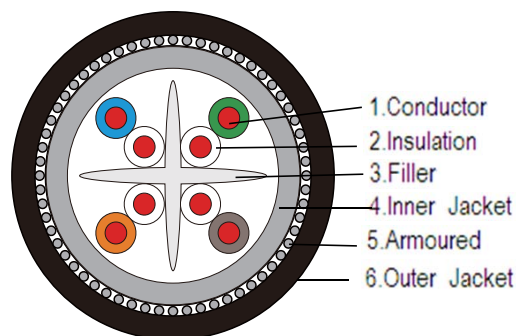
### Multi-construction

4 Pair

## Cable Construction

|                                |                              |
|--------------------------------|------------------------------|
| <b>1. Conductor</b>            | <b>Bare Copper</b>           |
| Conductor Dia.(mm)             | 0.52±0.01                    |
| <b>2. Insulation</b>           | <b>HDPE</b>                  |
| Insulation Dia.(mm)            | 0.93±0.08                    |
| <b>3.Filler</b>                | <b>Cross Member</b>          |
| <b>4.Inner Jacket</b>          | <b>LSZH</b>                  |
| Dia.(mm)                       | 6.50±0.20                    |
| Jacket Color                   | Black                        |
| <b>5.Armoured</b>              | <b>Galvanised steel wire</b> |
| Construction                   | 0.50×41±2                    |
| <b>6.Outer Jacket</b>          | <b>LSZH</b>                  |
| Dia.(mm)                       | 9.60±0.20                    |
| Jacket Color                   | Black                        |
| <b>Color</b>                   |                              |
| Insulation color are:          |                              |
| Blue, White/Blue               | Orange, White/Orange         |
| Green, White/Green             | Brown, White/Brown           |
| <b>Marking On Outer jacket</b> |                              |
| According to customer          |                              |
| <b>Packaging</b>               |                              |
| 500M/Drum                      |                              |
| <b>Label</b>                   |                              |

## Design



## Electrical Characteristics

### Performance

| Frequency (MHz) | ATTENUATION (dB/100m) | NEXT (dB) | PSNEXT (dB) | RETURN LOSS (dB) |
|-----------------|-----------------------|-----------|-------------|------------------|
| 4.0             | 3.8                   | 66.3      | 63.3        | 23.0             |
| 10.0            | 6.0                   | 60.3      | 57.3        | 25.0             |
| 16.0            | 7.6                   | 57.2      | 54.2        | 25.0             |
| 20.0            | 8.5                   | 55.8      | 52.8        | 25.0             |
| 31.3            | 10.7                  | 52.9      | 49.9        | 23.6             |
| 62.5            | 15.5                  | 48.4      | 45.4        | 21.5             |
| 100.0           | 19.9                  | 45.3      | 42.3        | 20.1             |
| 155.5           | 25.3                  | 42.4      | 39.4        | 18.8             |
| 175.0           | 27.1                  | 41.7      | 38.7        | 18.4             |
| 200.0           | 29.1                  | 40.8      | 37.8        | 18.0             |
| 250.0           | 33.0                  | 39.3      | 36.3        | 17.3             |

| Frequency (MHz) | ELFEXT (dB/100m) | PS ELFEXT (dB/100m) |
|-----------------|------------------|---------------------|
| 4.0             | 56.0             | 53.0                |
| 10.0            | 48.0             | 45.0                |
| 16.0            | 43.9             | 40.9                |
| 20.0            | 42.0             | 39.0                |
| 31.3            | 38.1             | 35.1                |
| 62.5            | 32.1             | 29.1                |
| 100.0           | 28.0             | 25.0                |
| 155.5           | 24.2             | 21.2                |
| 175.0           | 23.1             | 20.1                |
| 200.0           | 22.0             | 19.0                |
| 250.0           | 20.0             | 17.0                |

|   |  |
|---|--|
| Max. Conductor DC Resistance at 20°C (Ω/Km) | <97.6                                  |
| Rated Temperature(°C)                       | 60                                     |
| Velocity ratio                              | 70%                                    |
| Impedance(Ω)                                | 1-100MHz: 100±15<br>100-250MHz: 100±20 |
| Fire Performance: IEC60332-3C               |  |
| Smoke Density: IEC61034                     |  |
| Halogen Free: IEC60754                      |  |

