

### Optowire Ethernet Cable

#### UTP CAT6 BC 24AWG LSZH "0.48 ± 0.01 mm"

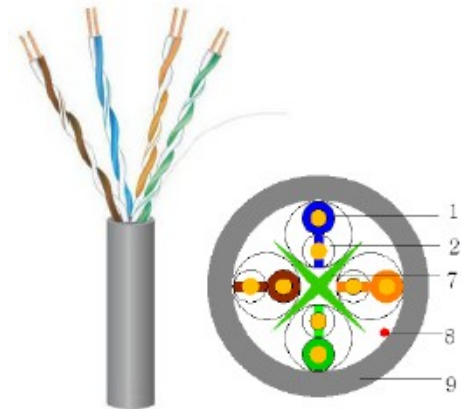
**Cable type:** UTP CAT6 BC 24AWG LSZH "0.48 ± 0.01 mm"

**Reference standard:** ANSI/TIA 568C & YD/T1019

**Application:** For network cabling systems, including 10/100/1000

Base-T, performance to meet the standard requirements

**Rated voltage:** 30V



### Construction:

|                           |  |                    |
|---------------------------|--|--------------------|
| <b>1. Conductor (mm)</b>  | <b>Solid bare copper 24AWG</b>   |                    |
| <b>2. Insulation (mm)</b> | <b>HDPE 0.86 ± 0.05</b>  |                    |
| <b>3. Color Code</b>      | <b>White-Blue(Stripe)/Blue</b><br><b>White-Orange(Stripe)/Orange</b><br><b>White-Green(Stripe)/Green 0</b><br><b>White-Brown(Stripe)/Brown</b> |                    |
| <b>4. Wrapping (mm)</b>   | -----  |                    |
| <b>5. Screen (mm)</b>     | -----  |                    |
| <b>6. Drain wire (mm)</b> | -----  |                    |
| <b>7. Cross</b>           | <b>Yes</b>   |                    |
| <b>8. Rip cord</b>        | <b>630D</b>  |                    |
| <b>9. Jacket</b>          | <b>Material</b>  | <b>LSZH</b>        |
|                           | <b>Nom.thickness for cable</b>   | <b>0.48 ± 0.01</b> |
|                           | <b>Color</b>   | <b>Grey</b>        |
|                           | <b>Nom.diameter</b>  | <b>4.9 ± 0.3</b>   |
| <b>Printing</b>           | <b>According to customer</b>   |                    |

## Mechanical characteristics:

|                             |                          |
|-----------------------------|--------------------------|
| Operating temperature °C    | -25~75                   |
| Installation temperature °C | -10~75                   |
| Tensile strength.Max        | 90 N                     |
| Bending radius              | 8D                       |
| Flame resistant             | IEC60332-1/IEC60332-3-24 |
| Length of Delivery          | 305m/box                 |

## Electrical characteristics:

|   |            |
|---|------------|
| Conductor resistance .Max                   | 9.5Ω/100m  |
| Conductor resistance unbalance .Max         | 2.5%       |
| Insulation resistance(DC 500V/1 min)        | 5000MΩ·km  |
| Dielectric strength C-C, .DC.1min           | 1kV        |
| Mutual capacitance .Max                     | 5.6nF/100m |
| Propagation Delay<br>Skew (1MHz~100MHz).Max | 45ns/100m  |



| Frequency<br>(MHz) | Attenuation<br>(dB/100m) | NEXT<br>(dB) | PSNEXT<br>(dB) | ELFEXT<br>(dB/100m) | PSELFEXT<br>(dB/100m) | Delay<br>(ns/100m) | Return Loss<br>(dB) |
|--------------------|--------------------------|--------------|----------------|---------------------|-----------------------|--------------------|---------------------|
| 1                  | 2.0                      | 74.3         | 72.3           | 67.8                | 64.8                  | 570.0              | 20.0                |
| 4                  | 3.8                      | 65.3         | 63.3           | 55.8                | 52.8                  | 552.0              | 23.0                |
| 8                  | 5.6                      | 60.8         | 58.8           | 49.7                | 46.7                  | 546.7              | 24.5                |
| 10                 | 6                        | 59.3         | 57.3           | 47.8                | 44.8                  | 545.4              | 25.0                |
| 16                 | 7.6                      | 56.2         | 54.2           | 43.7                | 40.7                  | 543.0              | 25.0                |
| 20                 | 8.5                      | 54.8         | 52.8           | 41.8                | 38.8                  | 542.0              | 25.0                |
| 25                 | 9.5                      | 53.3         | 51.3           | 39.8                | 36.8                  | 541.2              | 24.3                |
| 31.25              | 10.7                     | 51.9         | 49.9           | 37.9                | 34.9                  | 540.4              | 23.6                |
| 62.5               | 15.4                     | 47.4         | 45.4           | 31.9                | 28.9                  | 538.6              | 21.5                |
| 100                | 19.8                     | 44.3         | 42.3           | 27.8                | 24.8                  | 537.6              | 20.1                |
| 200                | 32.4                     | 39.8         | 37.8           | 21.8                | 18.8                  | 536.5              | 18.0                |
| 250                | 41.0                     | 38.3         | 36.3           | 19.8                | 16.8                  | 536.3              | 17.3                |