

Optowire Ethernet Cable

UTP CAT5E BC 24AWG LSZH(indoor) "0.51 ± 0.01 mm"

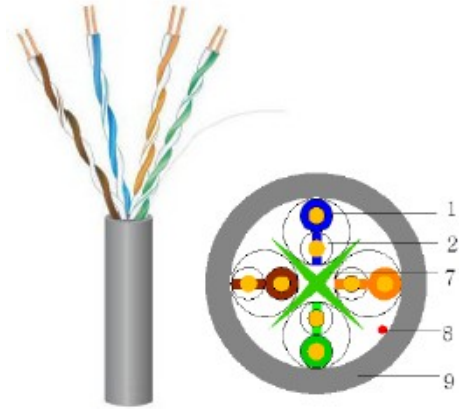
Cable type: UTP CAT5E BC 24AWG LSZH(indoor) "0.51 ± 0.01 mm"

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:

| | | |
|--------------------|--|-------------|
| 1. Conductor (mm) | Solid bare copper 24AWG | |
| 2. Insulation (mm) | HDPE 0.93±0.05 | |
| 3. Color Code | White-Blue(Stripe)/Blue White-Orange(Stripe)/Orange White-Green(Stripe)/Green 0 White-Brown(Stripe)/Brown | |
| 4. Wrapping (mm) | ----- | |
| 5. Screen (mm) | ----- | |
| 6. Drain wire (mm) | ----- | |
| 7. Cross | Yes | |
| 8. Rip cord | 630D | |
| 9. Jacket | Material | LSZH |
| | Nom.thickness for cable | 0.51 ± 0.01 |
| | Color | Grey |
| | Nom.diameter | 5.6 ± 0.3 |
| Printing | According to customer | |

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 Skew (1MHz~100MHz).Max | 45ns/100m |



| Frequency (MHz) | Attenuation (dB/100m) | NEXT (dB) | PSNEXT (dB) | ELFEXT (dB/100m) | PSELFEXT (dB/100m) | Delay (ns/100m) | Return Loss (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 |