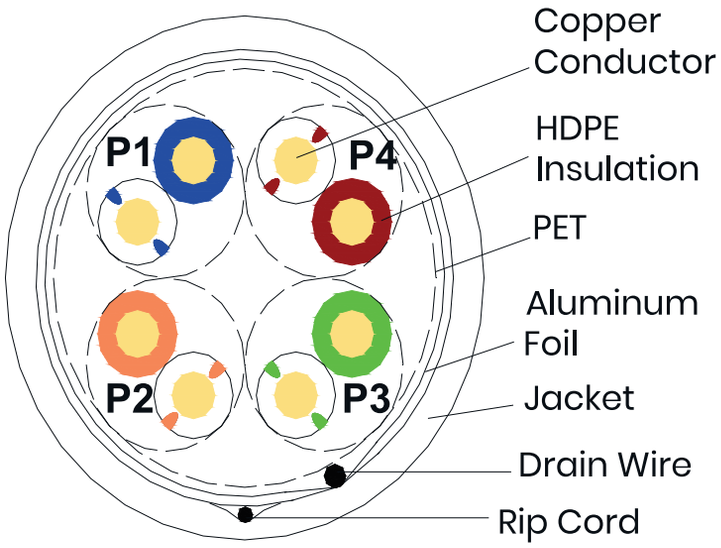
# CAT5e FTP 24AWG CU LSZH 305m
## COMMUNICATION CABLE


| PRODUCT DATA SHEET | | | |
|---|---|---|---|
| Type | | CAT5e FTP 24AWG CU LSZH 305m | |
| Structure | | Structure A | |
| Conductors | Structure AWG | AWG | 24# (1/24) |
| | Material | ---- | Solid Bare Copper |
| | Diameter | mm | Ø 0.50+/-0.008 |
| Insulation | Material | ---- | HDPE |
| | Diameter | mm | Ø 1.00+/-0.05 |
| | Average Thickness | mm | 0.25+/-0.05 |
| Shielding1 | Type | ---- | ---- |
| Assembly | Direction | ---- | S |
| | No. of Insulations | Pair | 4 |
| Shielding2 | Material | ---- | Al-Foil Screneed |
| Drain wire | Shield | ---- | 0.40±0.01mm TC |
| Jacket | Material | ---- | LSOH |
| | Diameter | mm | Ø 6.1+/-0.3 |
| | Average Thickness | mm | 0.6+/-0.1 |
| | Flame Rate | ---- | ---- |

## Construction:




core:

P1: White-Blue/Blue

P2: White-Orange/Orange

P3: White-Green/Green

P4: White-Brown/Brown

## Mechanical Characteristics

**1.** Cable under the minimum tension: ≥400N **2.** Conductor elongation: ≥15%
**3.** Jacket before Aging: Tensile Strength ≥10Mpa, Elongation ≥125%
**4.** Jacket After Aging: Tensile Strength ≥8Mpa, Elongation ≥100%

## Electrical Characteristics

**1.** Impedance: 1-100MHz 100±15 (Ohms) **2.** Rated Temperature: 75°C
**3.** DC Resistance Unbalance(%): Max 2.5 **4.** DC Resistance 20°C: ≤93.8 (Ohms/Km)
**5.** Pair-to-Ground Capacitance Unbalance: 330 (pF/100M)
**6.** Insulation Resistance: >5000MΩ*Km **7.** Dielectric strength: DC 2500V 2S

## Nominal Transmission Characteristics

| Frequence | Min. RL | Min. IL | Max. DOP | Max. SKEW | Min. NEXT | Min. PSNEXT | Min. ACR-F | Min. PSACR-F |
|---|---|---|---|---|---|---|---|---|
| (MHz) | (dB) | (dB/100M) | (ns/100M) | (ns/100M) | (dB) | (dB) | (dB/100M) | (dB/100M) |
| 1 | 20 | 2 | 570 | 45 | 65.3 | 62.3 | 63.8 | 60.8 |
| 4 | 23 | 4.1 | 552 | 45 | 56.3 | 53.3 | 51.8 | 48.8 |
| 10 | 25 | 6.5 | 545.4 | 45 | 50.3 | 47.3 | 43.8 | 40.8 |
| 16 | 25 | 8.2 | 543 | 45 | 47.2 | 44.2 | 39.7 | 36.7 |
| 20 | 25 | 9.3 | 542.1 | 45 | 45.8 | 42.8 | 37.8 | 34.8 |
| 31.25 | 23.6 | 11.7 | 540.4 | 45 | 42.9 | 39.9 | 33.9 | 30.9 |
| 62.5 | 21.5 | 17 | 538.6 | 45 | 38.4 | 35.4 | 27.9 | 24.9 |
| 100 | 20.1 | 22 | 537.6 | 45 | 35.3 | 32.3 | 23.8 | 20.8 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested