

Part Number: 120452E-LSOH-ORG-305-01
 Description: WEBNET Cat 6 U/UTP 4pair Low
 Smoke Non-Halogen (LSNH) Orange



Product Construction

Conductor Material : Bare Copper
 Insulation Material : High Density Polyethylene (HDPE)
 Number of Pairs : 4
 Pair Colours : Blue, Blue/White; Orange, Orange/White,
 Green, Green/White; Brown, Brown/White
 Sheath Material : Low Smoke Non-Halogen (LSNH)
 Sheath Colour : Orange



Mechanical Characteristics

Overall Diameter : 5.9mm ± 0.30mm
 Temperature Range : Fixed -10°C to +60°C Flexing 0°C to +50°C
 Bend Radius : Fixed 4 x Overall Diameter Flexing 8 x Overall Diameter
 Weight : 40 kg/km

Electrical Characteristics

Max. Conductor DC Resistance : ≤ 9.5 Ω/km @ 20°C
 Max. Resistance Unbalanced : < 2.5%
 Max. Insulation Resistance : > 5000 MΩ x m
 Mutual Capacitance : < 5.6 nF/100m
 Capacitance Unbalanced : 1600 pF/km
 Impedance @ 100 MHz : 100 Ω ± 5
 Velocity of Propagation : 65 %
 Delay Skew : < 45 ns / 100m
 Dielectric Strength - DC : 1kV for 1minute

| Frequency (MHz) | Attenuation (dB/100m) | NEXT (dB) | PS - NEXT (dB) | ACRF (dB) | PS-ACRF (dB) | Return Loss (dB) |
|-----------------|-----------------------|-----------|----------------|-----------|--------------|------------------|
| 1 | ≤ 2.0 | ≥ 74.3 | ≥ 72.3 | ≥ 67.8 | ≥ 64.8 | 20.0 |
| 4 | ≤ 3.8 | ≥ 65.3 | ≥ 63.3 | ≥ 55.8 | ≥ 52.8 | 23.0 |
| 8 | ≤ 5.3 | ≥ 60.8 | ≥ 58.8 | ≥ 49.7 | ≥ 46.7 | 24.5 |
| 10 | ≤ 6.0 | ≥ 59.3 | ≥ 57.3 | ≥ 47.8 | ≥ 44.8 | 25.0 |
| 16 | ≤ 7.6 | ≥ 56.2 | ≥ 54.2 | ≥ 43.7 | ≥ 40.7 | 25.0 |
| 20 | ≤ 8.5 | ≥ 54.8 | ≥ 52.8 | ≥ 41.8 | ≥ 38.8 | 25.0 |
| 25 | ≤ 9.5 | ≥ 53.3 | ≥ 51.3 | ≥ 39.8 | ≥ 36.8 | 24.3 |
| 31.25 | ≤ 10.7 | ≥ 51.9 | ≥ 49.9 | ≥ 37.9 | ≥ 34.9 | 23.6 |
| 62.5 | ≤ 15.4 | ≥ 47.4 | ≥ 45.4 | ≥ 31.9 | ≥ 28.9 | 21.5 |
| 100 | ≤ 19.8 | ≥ 44.3 | ≥ 42.3 | ≥ 27.8 | ≥ 24.8 | 20.1 |
| 200 | ≤ 29.0 | ≥ 39.8 | ≥ 37.8 | ≥ 21.8 | ≥ 18.8 | 18.0 |
| 250 | ≤ 32.8 | ≥ 38.3 | ≥ 36.3 | ≥ 19.8 | ≥ 16.8 | 17.3 |

Performance @ 20°

Certifications & Standards

Flame Retardancy : BS EN 60332-1-2 Certification : HDBaseT
 Low Smoke : BS EN 61034-2 RoHS 3 Compliant : Yes
 Halogen Gas : BS EN 60754-1&2 REACH Compliant : Yes
 Manufactured in Accordance to : TIA/EIA 568-C.2, IEC 11801 Class E, EN 50288-6-1, ISO/IEC 61156-5, EN 50173-1
 UKCA CPR Classification : Eca BS EN 50575:2014+A1:2016



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