

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



**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 : Red



**Mechanical Characteristics**

Overall Diameter : 5.9mm ± 0.30mm  
 Temperature Range : Fixed -10°C to +60°C Flexing 0°C to +50°C  
 Bend Radius : 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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