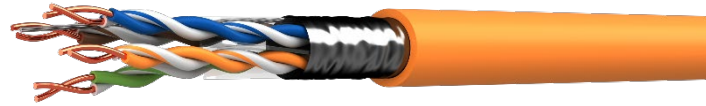


Technical Document  
**WEBNET Cat 6 23awg 4pair**  
**F/UTP LSNH Orange**



**Part Number:** 120511C-LSNH-ORG  
**Description:** WEBNET Cat 6 U/UTP 23awg 4pair  
 Low Smoke Non-Halogen (LSNH) Orange



**Product Construction**

Conductor Material : Bare Copper  
 Conductor Size : Solid, 23(1)awg  
 Insulation Material : High Density Polyethylene (HDPE)  
 Number of Pairs : 4  
 Pair Colours : Blue, Blue/White; Orange, Orange/White, Green, Green/White; Brown, Brown/White  
 Drain Wire : Tinned Copper, 1/0.4mm  
 Screening 1 : Overall Aluminium Foil with 100% coverage  
 Sheath Material : Low Smoke Non-Halogen (LSNH)  
 Sheath Colour : Orange



**Mechanical Characteristics**

Overall Diameter : 7.2mm ± 0.20mm  
 Temperature Range Fixed : -20°C to +70°C  
 Flexing : 0°C to +50°C  
 Bend Radius Fixed : 4 x Overall Diameter  
 Flexing : 8 x Overall Diameter  
 Weight : 65 kg/km

**Electrical Characteristics**

Max. Conductor DC Resistance : ≤ 9.5 Ω/km @ 20°C  
 Max. Resistance Unbalanced : < 2%  
 Max. Insulation Resistance : > 5000 MΩ x m  
 Mutual Capacitance : < 60 pF/m  
 Capacitance Unbalanced : 1600 pF/km  
 Impedance @ 100 MHz : 100 Ω ± 5  
 Velocity of Propagation : 66 %  
 Delay Skew : < 45 ns / 100m  
 Voltage Rating : 125V

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS - NEXT (dB)	ACR (dB)	PS - ACR (dB)	ACRF (dB)	PS-ACRF (dB)	Return Loss (dB)
1	≤ 2.0	≥ 83	≥ 80	≥ 85	≥ 82	≥ 83	≥ 80	25
4	≤ 3.6	≥ 73	≥ 70	≥ 70	≥ 67	≥ 70	≥ 67	31
10	≤ 6.0	≥ 73	≥ 70	≥ 65	≥ 62	≥ 60	≥ 57	30
100	≤ 19.5	≥ 55	≥ 52	≥ 40	≥ 37	≥ 35	≥ 32	25
200	≤ 28.5	≥ 50	≥ 47	≥ 25	≥ 22	≥ 30	≥ 27	22
250	≤ 32.0	≥ 45	≥ 42	≥ 25	≥ 22	≥ 22	≥ 19	22

Performance @ 20°C

**Certifications & Standards**

Flame Retardancy : BS EN 60332-1-2 RoHS 3 Compliant : Yes  
 Low Smoke : BS EN 61034-2 REACH Compliant : Yes  
 Halogen Gas : BS EN 60754-1&2  
 Manufactured in Accordance to : TIA/EIA 568-C.2, IEC 11801 Class E, EN 50288-6-1, ISO/IEC 61156-5, EN 50173-1  
 CE CPR Classification : Cca s1a, d1, a1 to EN 50575:2014+A1:2016



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