

Technical Document
WEBNET Cat 7 23awg 4pair
S/FTP LSNH Orange



Part Number: 530101C-LSNH-ORG
Description: WEBNET Cat 7 S/FTP 23awg 4pair
 Low Smoke Non-Halogen (LSNH) Orange



Product Construction

Conductor Material : Bare Copper
 Conductor Size : Solid, 23(1)awg
 Insulation Material : Skin/Foam/Skin Polyethylene (SFSPE)
 Number of Pairs : 4
 Pair Colours : Blue/White; Orange/White; Green/White; Brown/White
 Common Drain Wire : Tinned Copper, 1/0.4mm
 Screening 1 : Ind. Aluminium Foil Screened Pairs, ≥ 100% Coverage
 Screening 2 : Tinned Copper Wire Braid, >30% Coverage
 Sheath Material : Low Smoke Non-Halogen (LSNH)
 Sheath Colour : Orange



Mechanical Characteristics

Overall Diameter : 7.3mm ± 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 : 66 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 : < 56 pF/m
 Capacitance Unbalanced : 1600 pF/km
 Impedance @ 100 MHz : 100 Ω ± 5
 Velocity of Propagation : 76 %
 Delay Skew : < 25 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	≥ 104	≥ 101	≥ 99	≥ 96	≥ 101	≥ 98	24
4	≤ 3.4	≥ 104	≥ 101	≥ 97	≥ 94	≥ 98	≥ 95	30
10	≤ 4.9	≥ 101	≥ 98	≥ 95	≥ 92	≥ 98	≥ 95	32
100	≤ 17.3	≥ 100	≥ 97	≥ 82	≥ 79	≥ 84	≥ 81	34
250	≤ 28.2	≥ 95	≥ 92	≥ 63	≥ 60	≥ 70	≥ 67	27
500	≤ 42.0	≥ 95	≥ 92	≥ 56	≥ 53	≥ 61	≥ 58	24
600	≤ 44.0	≥ 88	≥ 85	≥ 45	≥ 42	≥ 59	≥ 56	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 F, EN 50288-4-1, ISO/IEC 61156-5, EN 50173-1
 CE CPR Classification : Cca s1a, d1, a1 to EN 50575:2014+A1:2016



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Webro Cables & Connectors Ltd

Vision House, Meadow Brooks Business Park, Meadow Lane, Long Eaton, Nottingham NG10 2GD, UK
 Tel: +44 (0)115 9724483 | Fax: +44 (0)115 9461230 | sales@webro.com | www.webro.com

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