

Technical Document
WEBNET Cat 7A 22awg 4pair
S/FTP LSNH Orange



Part Number: 530151C-LSNH-ORG
Description: WEBNET Cat 7A S/FTP 22awg 4pair
 Low Smoke Non-Halogen (LSNH) Orange



Product Construction

Conductor Material : Bare Copper
 Conductor Size : Solid, 22(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, >40% Coverage
 Sheath Material : Low Smoke Non-Halogen (LSNH)
 Sheath Colour : Orange



Mechanical Characteristics

Overall Diameter : 7.9mm ± 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 : 72 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	≤ 1.9	≥ 101	≥ 101	≥ 99	≥ 96	≥ 101	≥ 98	24
4	≤ 3.2	≥ 101	≥ 101	≥ 97	≥ 94	≥ 98	≥ 95	30
10	≤ 4.9	≥ 98	≥ 98	≥ 95	≥ 92	≥ 98	≥ 95	32
100	≤ 17.2	≥ 97	≥ 97	≥ 82	≥ 79	≥ 84	≥ 81	34
250	≤ 28.0	≥ 93	≥ 92	≥ 63	≥ 60	≥ 70	≥ 67	27
500	≤ 41.5	≥ 95	≥ 92	≥ 56	≥ 53	≥ 61	≥ 58	24
600	≤ 43.7	≥ 88	≥ 85	≥ 45	≥ 42	≥ 59	≥ 56	22
800	≤ 53.2	≥ 84	≥ 81	≥ 30	≥ 27	≥ 52	≥ 49	20
1000	≤ 55.4	≥ 83	≥ 80	≥ 28	≥ 25	≥ 50	≥ 47	19

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



Publication Date: 06/08/2023
 Revision Number: 2.0
 Written by: GB
 Authorised by: GB

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

This technical document and its information and images are intended for guidance only. Due to technical improvements, manufacturing changes or commercial factors the product may vary, and we reserve the right without notice or liability to amend the product information.