



Part Number: 120452E-LSOH-ORG-305-01

Description: WEBNET Cat 6 4pair U/UTP Low Smoke Non-Halogen (LSNH) Orange

Product Construction

Conductor Material	:	Bare Copper, Solid
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 ± 0.3mm	
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 @ 20°C	:	≤ 95 Ω/km
Max. Resistance Unbalanced	:	< 2.5%
Max. Insulation Resistance	:	> 5000 MΩ.km
Mutual Capacitance	:	< 5.6 nF/100m
Capacitance Unbalanced	:	≤ 1600 pF/km
Impedance @ 100 MHz	:	100 Ω ± 15
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/100m)	PS-ACRF (dB/100m)	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°C

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 to BS EN 50575:2014+A1:2016			



Publication Date: 08/06/2022
 Revision Number: 1.0
 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.