



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

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

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	:	Black

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			



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