

Technical Document
WEBNET Cat 6A 23awg 4pair
U/FTP LSNH Blue

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Part Number: 120571C-LSNH-BLU

Description: WEBNET Cat 6A U/FTP 23awg 4pair
Low Smoke Non-Halogen (LSNH) Blue



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, $\geq 100\%$ Coverage
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Blue



Mechanical Characteristics

Overall Diameter	:	7.7mm $\pm$ 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	:	$\leq 9.5 \Omega/\text{km}$ @ 20°C
Max. Resistance Unbalanced	:	$< 2\%$
Max. Insulation Resistance	:	$> 5000 \text{ M}\Omega \times \text{m}$
Mutual Capacitance	:	$< 56 \text{ pF/m}$
Capacitance Unbalanced	:	1600 pF/km
Impedance @ 100 MHz	:	100 $\Omega \pm 5$
Velocity of Propagation	:	76 %
Delay Skew	:	$< 25 \text{ ns} / 100\text{m}$
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	≥ 95	≥ 92	≥ 90	≥ 87	≥ 100	≥ 97	25
4	≤ 3.6	≥ 95	≥ 92	≥ 90	≥ 87	≥ 100	≥ 97	25
10	≤ 5.4	≥ 95	≥ 92	≥ 85	≥ 82	≥ 90	≥ 87	28
100	≤ 18.3	≥ 87	≥ 84	≥ 75	≥ 72	≥ 75	≥ 72	25
200	≤ 25.0	≥ 87	≥ 84	≥ 75	≥ 72	≥ 70	≥ 67	25
250	≤ 29.1	≥ 85	≥ 82	≥ 52	≥ 49	≥ 65	≥ 62	23
400	≤ 37.4	≥ 75	≥ 72	≥ 41	≥ 48	≥ 55	≥ 52	23
500	≤ 41.5	≥ 75	≥ 72	≥ 30	≥ 27	≥ 55	≥ 52	21

Performance @ 20°C

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2	Certification	:	HDBaseT 3.0
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 Ea, 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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