



Part Number: 530101C-LSNH-ORG

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

Product Construction

Conductor Material	:	Bare Copper, Solid
Conductor Size	:	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 ± 0.2mm
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	:	64 kg/km

Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	:	≤ 9.5 Ω/km
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/100m)	PS – ACR (dB/100)	ACRF (dB/100m)	PS-ACRF (dB/100m)	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			
CPR Classification	:	Cca s1a, d1, a1 to EN 50575:2014+A1:2016			

