



Part Number: 530151C-LSNH-ORG

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

**Product Construction**

Conductor Material	:	Bare Copper, Solid
Conductor Size	:	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 ± 0.2mm
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	:	72 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 Unblanaded	:	1600 pF/km
Impedance @ 100 MHz	:	100 Ω ± 5
Velocity of Proagation	:	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	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			
CPR Classification	:	Cca s1a, d1, a1 to EN 50575:2014+A1:2016			



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