

Technical Document
WEBNET Cat 6A 23awg 4pair
F/FTP Duct Grade Black



Part Number: 120561F-DUCT-BLK
Description: WEBNET Cat 6A F/FTP 23awg 4pair
 Duct Grade PE Black



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, ≥ 100% Coverage
Screening 2	:	Overall Aluminium Foil, 100% Coverage
Inner Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Inner Sheath Colour	:	Grey
Outer Sheath Material	:	Polyethylene (PE)
Outer Sheath Colour	:	Black



Mechanical Characteristics

Inner Sheath Diameter	:	7.7mm ± 0.20mm		
Overall Diameter	:	10.0mm ± 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	:	69 kg/km		

Electrical Characteristics

Max. Conductor DC Resistance	:	≤ 9.5 Ω/km @ 20°C
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)	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

RoHS 3 Compliant	:	Yes	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			
UKCA CPR Classification	:	Fca to BS EN 50575:2014+A1:2016			



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