

Technical Document
WEBNET Cat 5E 4pair U/UTP
External Grade PE Black

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Part Number: 110405F-PE-BLK-***-01

Description: WEBNET Cat 5E U/UTP 4pair External
Grade PE 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	:	Polyethylene (PE)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	5.0mm $\pm$ 0.20mm		
Temperature Range	:	Fixed -10°C to +60°C	Flexing	0°C to +50°C
Bend Radius	:	Fixed 4 x Overall Diameter	Flexing	8 x Overall Diameter
Weight	:	34 kg/km		

Electrical Characteristics

Max. Conductor DC Resistance	:	$\leq 9.5 \Omega/\text{km}$ @ 20°C
Max. Resistance Unbalanced	:	$< 2.5\%$
Max. Insulation Resistance	:	$> 5000 \text{ M}\Omega \times \text{m}$
Mutual Capacitance	:	$< 5.6 \text{ nF}/100\text{m}$
Capacitance Unbalanced, Pair to Earth	:	$\leq 330 \text{ pF}/100\text{m}$
Impedance @ 100 MHz	:	$100 \Omega \pm 15$
Velocity of Propagation	:	65 %
Delay Skew	:	$< 45 \text{ ns} / 100\text{m}$
Dielectric Strength - DC	:	1kV for 1minute

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS - NEXT (dB)	ACRF (dB)	PS-ACRF (dB)	Return Loss (dB)
1	≤ 2.0	≥ 65.3	≥ 62.3	≥ 63.8	≥ 60.8	20.0
4	≤ 4.1	≥ 56.3	≥ 55.3	≥ 51.8	≥ 48.8	23.0
8	≤ 5.8	≥ 51.8	≥ 48.8	≥ 45.7	≥ 42.7	24.5
10	≤ 6.5	≥ 50.3	≥ 47.3	≥ 43.8	≥ 40.8	25.0
16	≤ 8.2	≥ 47.2	≥ 44.2	≥ 39.7	≥ 36.7	25.0
20	≤ 9.3	≥ 45.8	≥ 42.8	≥ 37.8	≥ 34.8	25.0
25	≤ 10.4	≥ 44.3	≥ 41.3	≥ 35.8	≥ 32.8	24.3
31.25	≤ 11.7	≥ 42.9	≥ 39.9	≥ 33.9	≥ 30.9	23.6
62.5	≤ 17.0	≥ 38.4	≥ 35.4	≥ 27.9	≥ 24.9	21.5
100	≤ 22.0	≥ 35.3	≥ 32.3	≥ 23.8	≥ 20.8	20.1

Performance @ 20°

Certifications & Standards

Certification	:	HDBaseT
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
Manufactured in Accordance to	:	TIA/EIA 568-C.2, IEC 11801 Class D, EN 50288-2-1, ISO/IEC 61156-5, EN 50173-1
UKCA CPR Classification	:	Fca to BS EN 50575:2014+A1:2016

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