

Part Number: 110402E-305

Description: WEBNET Cat 5E F/UTP 4pair PVC Grey



#### 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
Drain Wire	:	Tinned Copper, 1/0.4mm
Screening 1	:	Overall Aluminium Foil with 100% coverage
Sheath Material	:	Polyvinyl Chloride (PVC)
Sheath Colour	:	Grey



#### Mechanical Characteristics

Overall Diameter	:	5.2mm ± 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	:	45 kg/km		

#### Electrical Characteristics

Max. Conductor DC Resistance	:	≤ 9.5 Ω/km @ 20°C
Max. Resistance Unbalanced	:	< 2.5%
Max. Insulation Resistance	:	> 5000 MΩ x m
Mutual Capacitance	:	< 5.6 nF/100m
Capacitance Unbalanced, Pair to Earth	:	≤ 330 pF/100m
Impedance @ 100 MHz	:	100 Ω ± 15
Velocity of Propagation	:	65 %
Delay Skew	:	< 45 ns / 100m
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	≤ 2.1	≥ 60.0	≥ 57.0	≥ 58.6	≥ 55.6	19.0
4	≤ 3.9	≥ 54.4	≥ 51.8	≥ 46.6	≥ 43.6	19.0
10	≤ 6.2	≥ 48.5	≥ 45.5	≥ 38.6	≥ 35.6	19.0
16	≤ 7.9	≥ 45.2	≥ 42.2	≥ 34.5	≥ 31.5	19.0
20	≤ 8.9	≥ 43.7	≥ 40.7	≥ 32.6	≥ 29.6	19.0
31.25	≤ 11.2	≥ 40.5	≥ 37.5	≥ 28.7	≥ 25.7	17.1
62.5	≤ 16.2	≥ 35.7	≥ 32.7	≥ 22.7	≥ 19.7	14.1
100	≤ 21.0	≥ 32.3	≥ 29.3	≥ 18.6	≥ 15.6	12.0

Performance @ 20°

#### Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2
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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