

Technical Document
WEB400 75ohm Low Loss Coaxial Cable
LSNH Black



Part Number: 140401E-BLK-LSNH

Description: WEB400 75ohm Low Loss Coaxial Cable Low Smoke Non-Halogen (LSNH) Black



Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/1.65mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	7.24mm ± 0.10
Screening 1	:	Overall Bonded Aluminium Foil > 100%
Screening 2	:	Tinned Copper Wire Braid > 90% ± 3
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	10.3mm ± 0.20mm
Temperature Range	:	Fixed -15°C to +70°C Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	100kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 8.2 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 5.4 Ω /km @ 20°C
Insulation Resistance	:	5000 MΩ.km
Characteristic Impedance	:	75 Ω ± 3 Ω
Nominal Capacitance	:	53 pF/m
Velocity of Propagation	:	85%
Peak Power	:	10 kW
Shielding Effectiveness	:	> 90 dB

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW
30	≤ 2.1 dB	≤ 0.6 dB	2.99
50	≤ 2.8 dB	≤ 0.8 dB	2.31
150	≤ 4.8 dB	≤ 1.5 dB	1.32
220	≤ 5.8 dB	≤ 1.8 dB	1.08
450	≤ 8.4 dB	≤ 2.6 dB	0.74
900	≤ 12.1 dB	≤ 3.7 dB	0.52
1500	≤ 16.0 dB	≤ 4.9 dB	0.39
1800	≤ 17.6 dB	≤ 5.4 dB	0.35
2000	≤ 18.7 dB	≤ 5.7 dB	0.33
2500	≤ 21.1 dB	≤ 6.4 dB	0.30

Return Loss @ 20°C

Frequency (MHz)	Return Loss
5MHz - 450MHz	≥ 23 dB
450MHz - 900MHz	≥ 20 dB
900MHz - 2500MHz	≥ 18 dB

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2, BS EN 60332-3-24C
Low Smoke	:	BS EN 61034-2
Halogen Gas	:	BS EN 60754-1&2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016

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