

# Technical Document

## WEB400 50ohm Low Loss Coaxial Cable

### LSNH Black

# webro

Part Number: 140400D-BLK-LSNH

Description: WEB400 50ohm Low Loss Coaxial Cable Low Smoke Non-Halogen (LSNH) Black



#### Product Construction

Conductor Material	:	Copper Clad Aluminium
Conductor Stranding	:	Solid, 1/2.74mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	7.24mm ± 0.10
Screening 1	:	Overall Bonded Aluminium Foil
Screening 1 Coverage	:	> 100%
Screening 2	:	Tinned Copper Wire Braid
Screening 2 Coverage	:	> 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	:	120kg/km

#### Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 4.8 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 5.9 Ω /km @ 20°C
Insulation Resistance	:	5000 MΩ.km
Characteristic Impedance	:	50 Ω ± 3 Ω
Nominal Capacitance	:	78 pF/m
Velocity of Propagation	:	84%
Peak Power	:	16 kW
Shielding Effectiveness	:	> 90 dB

#### Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW	Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW
30	≤ 2.2 dB	≤ 0.7 dB	3.33	1500	≤ 16.8 dB	≤ 5.1 dB	0.44
50	≤ 2.9 dB	≤ 0.9 dB	2.57	1800	≤ 18.6 dB	≤ 5.7 dB	0.40
150	≤ 5.0 dB	≤ 1.5 dB	1.47	2000	≤ 19.6 dB	≤ 6.0 dB	0.37
220	≤ 6.1 dB	≤ 1.9 dB	1.20	2500	≤ 22.2 dB	≤ 6.8 dB	0.33
450	≤ 8.9 dB	≤ 2.7 dB	0.83	5800	≤ 35.5 dB	≤ 10.8 dB	0.21
900	≤ 12.8 dB	≤ 3.9 dB	0.58				

#### 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	:	Dca s1, d0, a1 to BS EN 50575:2014+A1:2016

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