

Technical Document
WEB195 50ohm Low Loss Coaxial Cable
LSNH Black



Part Number: 140195E-BLK-LSNH

Description: WEB195 50ohm Low Loss Coaxial
Cable Low Smoke Non-Halogen (LSNH) Black



Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/0.94mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	2.79mm ± 0.15
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	:	4.95mm ± 0.15mm	
Temperature Range	:	Fixed -15°C to +70°C	Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter	
Weight	:	39kg/km	

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 26.0 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 18 Ω /km @ 20°C
Insulation Resistance	:	5000 M Ω.kM
Characteristic Impedance	:	50 Ω ± 3 Ω
Nominal Capacitance	:	83 pF/m
Velocity of Propagation	:	80%
Peak Power	:	2.5 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	≤ 6.5 dB	≤ 2.0 dB	0.89	1500	≤ 47.7 dB	≤ 14.5 dB	0.12
50	≤ 8.4 dB	≤ 2.5 dB	0.68	1800	≤ 52.5 dB	≤ 16.0 dB	0.11
150	≤ 14.6 dB	≤ 4.4 dB	0.39	2000	≤ 55.4 dB	≤ 16.9 dB	0.10
220	≤ 17.7 dB	≤ 5.4 dB	0.32	2500	≤ 62.4 dB	≤ 19.0 dB	0.09
450	≤ 25.5 dB	≤ 7.8 dB	0.22	5800	≤ 98.1 dB	≤ 29.9 dB	0.06
900	≤ 26.5 dB	≤ 11.1 dB	0.16				

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2
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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