Technical Document

WEB600 50ohm Low Loss Coaxial Cable LSNH Black

Part Number: 140600D-BLK-LSNH
Description: WEB600 50ohm Low Loss Coaxial Cable Low Smoke Non-Halogen (LSNH) Black



CPR
CONSTRUCTION PRODUCTS REGULATION
BS EN 50575
Class Dca
s1, d2, a1
Independently Verified

Product Construction

Conductor Material	:	Copper Clad Aluminium
Conductor Stranding	:	Solid, 1/4.47mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	11.56mm ± 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	:	15.0mm ± 0.20mm
Temperature Range	:	Fixed -15°C to +70°C Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	266kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 1.7 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 3.9 Ω /km @ 20°C
Insulation Resistance	:	5000 MΩ.kM
Characteristic Impedance	:	50 Ω ± 3 Ω
Nominal Capacitance	:	77 pF/m
Velocity of Propagation	:	85%
Peak Power	:	40 kW
Shielding Effectiveness	:	> 90 dB

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW
30	≤ 1.4 dB	≤ 0.4 dB	5.51
50	≤ 1.8 dB	≤ 0.5 dB	4.24
150	≤ 3.2 dB	≤ 1.0 dB	2.41
220	≤ 3.9 dB	≤ 1.2 dB	1.97
450	≤ 5.6 dB	≤ 1.7 dB	1.35
900	≤ 8.2 dB	≤ 2.5 dB	0.93

Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW
1500	≤ 10.9 dB	≤ 3.3 dB	0.70
1800	≤ 12.1 dB	≤ 3.7 dB	0.63
2000	≤ 12.8 dB	≤ 3.9 dB	0.59
2500	≤ 14.5 dB	≤ 4.4 dB	0.52
5800	≤ 23.8 dB	≤ 7.3 dB	0.32

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, d2, a1 to BS EN 50575:2014+A1:2016

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