

Technical Document  
RG59 B/U 75ohm Coaxial Cable  
LSNH Black

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Part Number: 490101E-LSZH-BLK

Description: RG59 B/U 75ohm Coaxial Cable Low  
Smoke Non-Halogen (LSNH) Black



**Product Construction**

Conductor Material	:	Copper Clad Steel
Conductor Stranding	:	Solid, 1/0.58mm
Dielectric Material	:	Solid Polyethylene (SPE)
Dielectric Diameter	:	3.71mm ± 0.10
Screening 1	:	Plain Copper Wire Braid
Screening 1 Coverage	:	> 80% ± 3
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Black



**Mechanical Characteristics**

Overall Diameter	:	6.1mm ± 0.20mm
Temperature Range	Fixed	-20°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	47 kg/km

**Electrical Characteristics**

Inner Conductor DC Resistance	:	≤ 220 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 16 Ω/ km @ 20°C
Impedance	:	75 Ω ± 3
Nominal Capacitance	:	67 pF/m
Velocity of Propagation	:	66%
Insulation Resistance @ 20°C	:	≥ 1000 M Ω*M
Structural Return Loss DC	:	> 20dB @ 1GHz

**Attenuation @20°C**

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
50	≤ 8.5 dB	800	≤ 35.8 dB
100	≤ 11.8 dB	860	≤ 37.2 dB
200	≤ 16.5 dB	1000	≤ 39.5 dB
450	≤ 26.0 dB		

**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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