



Caledonian

Composite Cables

www.caledonian-cables.com

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1xRG59+4x2.5 Power Cable+2x1x2x22AWG Data Pairs SWB LSZH Sheathed Composite Cable



FIRE PERFORMANCE

Low Smoke Capacity	IEC61034-1/2
Halogen Free	IEC60754-1/2
Flame Propagation	IEC60332

CABLE CONSTRUCTION

1x75Ohm RG59 Coaxial Cable (in the center of the cable core)

Conductor: 0.58mm Solid copper conductor

Insulation: Polyethylene. Thickness 1.56mm

Shield: Braid of bare copper wire. Coverage $\geq 95\%$

Sheath: LSZH sheath. Nominal outer diameter 6.15mm

Sheath Color: Black

2x1x2x22AWG Shielded Twisted Pair (around coaxial cable)

Conductor: 7/0.245mm stranded tinned copper

Insulation: PVC material. Thickness 0.4mm

Insulation Color: White and black

Individual Shield: Aluminum polyester tape

Drain Wire: 24 AWG stranded tinned copper

Sheath: LSZH sheath. Thickness 0.76mm. Nominal outer diameter 5.23mm

Sheath Color: Black and Grey

4x2.5mm² Power Cable (around coaxial cable)

Conductor: 2.5mm² Stranded bare copper wire

Insulation: XLPE. Nominal outer diameter 3.41mm

Insulation Color: Blue, Brown, Black and Green/Yellow

Element Assembly

Filler: PE or PP material

Wrapping Tape: Polyester tape



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Inner Sheath: Black LSZH, thickness 0.8mm

Aarmor: Steel wire braid, coverage 85%

Outer Sheath: LSZH, thickness 1.5mm, nominal outer diameter is 22.34±2.0mm

Sheath Color :Black

Cable Weight: 740kg/km

PHYSICAL AND THERMAL PROPERTIES

Electrical and Physical Properties@20°C:

Coaxial Cable

Impedance: 75±3Ohm (@1MHz)

Max. Attenuation: 7.5dB/100m @50MHz

Power Cable

Electrical Resistance: 7.41Ohm/km

Insulation Resistance: ≥5500 MOhm×km

Data Pairs

Electrical Resistance: 48.4Ohm/km

Insulation Resistance: ≥1000 MOhm×km

Element Assembly

Min Bending Radius: 420mm

Operating Temperature: -35°C/+80°C