



# Caledonian

## Composite Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

### 4x2.5 Power Cable+2 Instrument Pair+2 Coaxial Cable SWA LSOH Sheathed Composite Cables



### FIRE PERFORMANCE

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

### CABLE CONSTRUCTION

#### 2 Core Coaxial Cable

Conductor: 7/0.22mm no oxygen copper conductor

Insulation: Polyethylene. Thickness 0.92mm

Shield: 0.12mm bare copper wire braided, coverage ca.85%

Sheath: LSZH, thickness: 0.8mm; Nominal outer diameter  $4.5 \pm 0.3$ mm

Sheath Color: Black

#### 4x 2.5mm<sup>2</sup> Power Cable

Conductor: 7/0.68mm stranded no oxygen copper

Insulation: LSZH material. Thickness 0.8mm; outer diameter  $3.7 \pm 0.2$ mm

Insulation Color: Red, blue, green, yellow

#### 2 Pair Instrument Cable

Conductor: 7/0.22mm stranded tinned copper

Insulation: PE material. Thickness 0.50mm, outer diameter  $1.6 \pm 0.2$ mm

Insulation Color: White/ blue; white/orange

Shield: Aluminum-plastic compounded tape with 7/0.22mm tinned copper drain wire

#### Element Assembly

Filler: Non-absorbent Polypropylene

Wrapping Tape: Polyester tape

Shield: Tinned copper wire braided, coverage ca.80%

Inner Sheath: Black LSOH, thickness: 1.0mm



# Caledonian

Composite Cables

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

Armor: 0.30mm galvanized steel(single  $\phi$  wire braided; coverage ca.80%

Outer Sheath: LSZH , thickness: 1.7mm, Nominal outer diameter 23.1 $\pm$ 1.0mm

Sheath Color: Orange

Cable Weight: 735 kg/km

## PHYSICAL AND THERMAL PROPERTIES

Electrical and Physical Properties @20°C:

Coaxial Cable

Impedance: 75 $\pm$ 3Ohm (@1MHz)

Max. Attenuation: 3dB/100m

Capacity: 55pF/m nominal at 1kHz

Power Cable

Electrical Resistance: 6.6Ohm/km

Insulation Resistance:  $\geq$ 5500 MOhm $\times$ km

Data Pairs

Electrical Resistance: 90Ohm/km

Insulation Resistance:  $\geq$ 1000 MOhm $\times$ km

Element Assembly

Min Bending Radius: 280mm

Operating Temperature: -35°C/+90°C

Long term operation temperature of cable conductor: 90°C

Max temperature of cable conductor during short circuit:  $\leq$ 250°C