



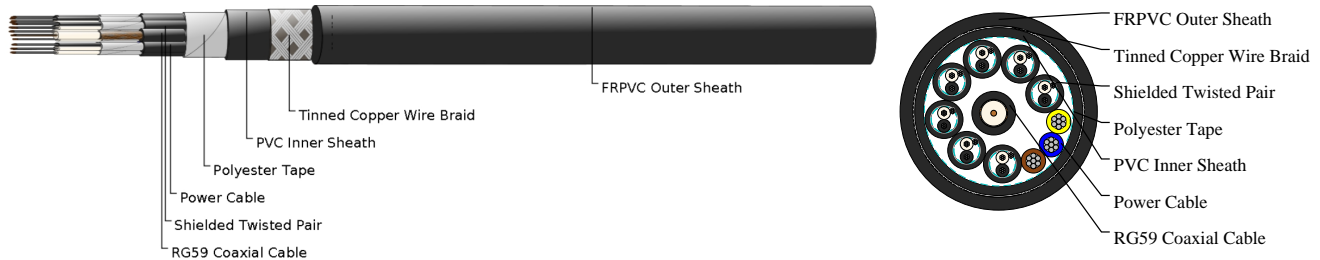
Caledonian

Composite Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

1xRG59+7x1x2x22AWG Pairs Data Cable+3x16AWG Power Cable TCWB FRPVC Sheathed Composite Cable



FIRE PERFORMANCE

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

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: PVC sheath. Nominal outer diameter 6.2mm

Sheath Color: Black

7x1x2x22AWG Shielded Twisted Pair (around coaxial cable)

Conductor: 7/0.254mm Stranded tinned copper

Insulation: PE material. Thickness 0.6mm

Insulation Color: Black and white with numbering

Shield: Aluminium polyester tape

Drain Wire: 24 AWG stranded tinned copper drain wire

3x16AWG Power Cable(around coaxial cable)

Conductor: 19/0.287mm Stranded tinned copper wire

Insulation: XLPE. Thickness 0.7mm.

Element Assembly

Filler: PP material if necessary

Wrapping Tape: Polyester tape

Inner Sheath: PVC compound

Shield: Tinned copper wire braid, coverage 80%

Outer Sheath: UV resisting FRPVC, thickness 1.8mm, nominal outer diameter 25.0mm



Caledonian

Composite Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

Sheath Color: Black

Cable Weight: 850kg/km

PHYSICAL AND THERMAL PROPERTIES

Electrical and Physical Properties @20°C:

Coaxial Cable

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

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

Power Cable

Electrical Resistance: 6.6 Ω /km

Insulation Resistance: $\geq 5500 \text{ MOhm}\cdot\text{km}$

Data Pairs

Electrical Resistance: 90 Ω /km

Insulation Resistance: $\geq 1000 \text{ MOhm}\cdot\text{km}$

Element Assembly

Min Bending Radius: 420mm

Operating Temperature: -35°C/+80°C