



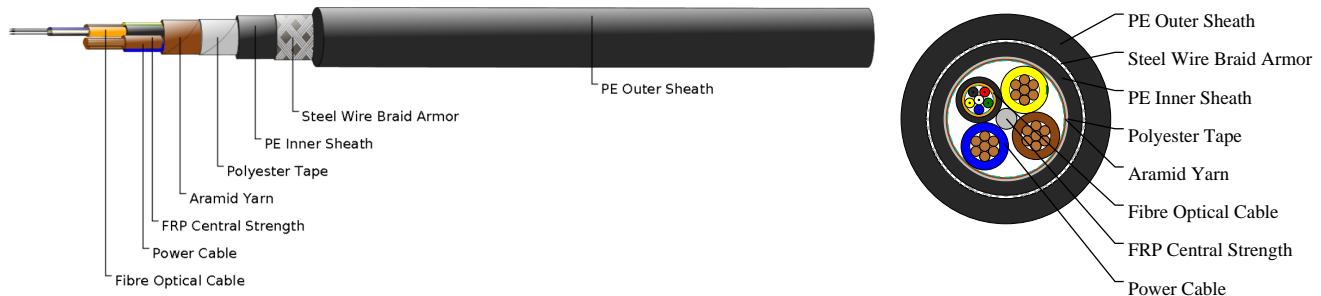
# Caledonian

## Composite Cables

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### 3x2.5 Power Cable+6C Fiber Optic Cable SWB Armored Composite Cable



### CABLE CONSTRUCTION

#### 3x2.5mm<sup>2</sup> Power Cable

Conductor: 7/0.67mm Stranded bare copper wire

Insulation: XLPE. Thickness is 0.7mm. Outer diameter 3.41mm

Insulation Color: Blue, Brown and Green/Yellow

#### 6 Core Central Loose Tube Fiber Optic Cable

Optical Fiber: Single-mode cabled fibers meet or exceed the requirements of ITUT G.652.D specification

Loose Tube: PBT tubes 1.80±0.1mm outer diameter, contains 6 fibers, The tubes are filled with a thixotropic gel to prevent the ingress of water

Fiber Glass Yarn: Fiber Glass Yarn is laid over the tube core to serve as peripheral strength member.

Sheath: PE outer Sheath is extruded over the glass yarn, Nominal outer diameter is about 3.40mm

Sheath Color: Black

#### Element Assembly

Central Strength Member: 1.5mm FRP central strength member with PE/PVC coating if necessary

Strength Member: Aramid yarn helically is applied over cable core

Inner Jacket: Black PE, thickness 1.00mm

Armor: Steel wire braid, coverage 80%, 0.25mm steel tape armor is optional

Sheath: PE, thickness 1.80mm, nominal outer diameter 16.00±1.0mm

Sheath Color: Black

### PHYSICAL AND THERMAL PROPERTIES

#### Mechanical Properties:

Minimum Bending Radius:

Under Installation: 25×OD

During Operation: 12.5×OD

Temperature Range:

Operating Temperature Range: -40°C (-40 °F to +70°C (+158 °F)

Storage Temperature Range: -50°C (-58 °F to +70°C (+158 °F)

Maximum Crush Resistance:



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Long Term: 300N

Short Term: 10000N

Minimum Tensile Resistance:

Under Installation: 1500N

During Operation: 600N.

Repeated Impact: 4.0 N.m (J

Twist (Torsion): 180x10 times, 125xOD

Cyclic Flexing: 25 cycles for armoured cables;