



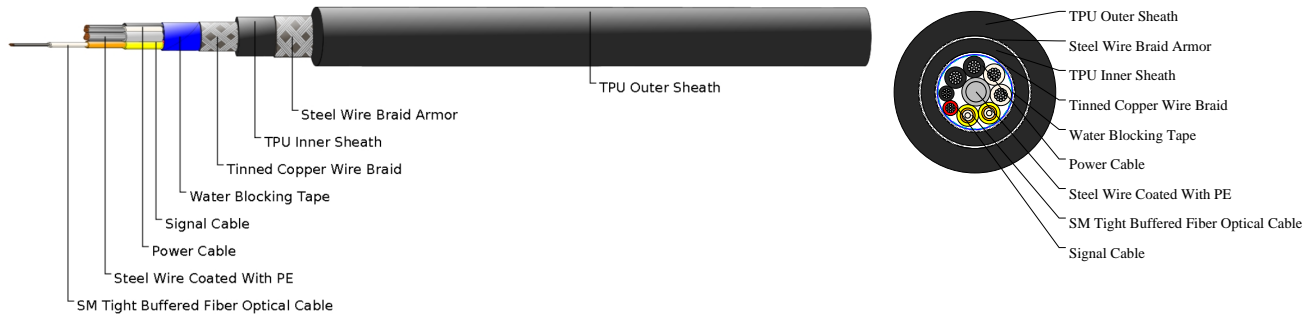
Caledonian

Composite Cables

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Power Cable+Signal Cable+SM Tight Buffered Fiber Optical Cable SWB Armored TPU Sheathed Composite Cable



CABLE CONSTRUCTION

4x20AWG Power Cable

Conductor: 20AWG stranded tinned copper wire

Insulation: XLPE. Nominal outer diameter is 1.5mm

Insulation Color: 2xBlack and 2xWhite

2x24AWG Signal Conductor

Conductor: 24AWG stranded tinned copper wire

Insulation: XLPE. Nominal outer diameter is 1.1mm

Insulation Color: Red and Black

2Cx9/125um Tight Buffered Fiber Cable

Tight buffered fiber: Single-mode fiber meets the ITU G.652D specification

Strength member: Aramid yarn

Sheath: PVC, Nominal outer diameter: 1.6mm

Sheath Color: Blue & yellow

Element Assembly

Central Strength Member: 1.5mm steel wire coated with PE, OD: 2.1mm

Wrapping Tape: Water blocking tape

Screen: Tinned copper wire braiding, 90% coverage

Inner Jacket: Black TPU

Armor: Steel wire braid, dia. 0.2mm, coverage 80%

Sheath: TPU, nominal outer diameter 12.0mm.

Sheath Color: Black

Cable Weight :250kg/km

PHYSICAL AND THERMAL PROPERTIES

Electrical Properties @20°C:

20AWG Power Cable



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Conductor Resistance @ 20°C : 35.3 ohm/km

Insulation Resistance: $\geq 10 \text{GOhm} \times \text{km}$

24AWG Signal Conductor

Conductor Resistance @ 20°C: 95Ohm/km

Insulation Resistance: $\geq 10 \text{GOhm} \times \text{km}$

Mechanical Properties:

Max. Pulling Load

- Under installation: 1500N

- In service: 600N

Maximum Compressive Load: 1000N

Minimum Bending Radius:

- Under installation: 20×OD

- During operation: 10×OD