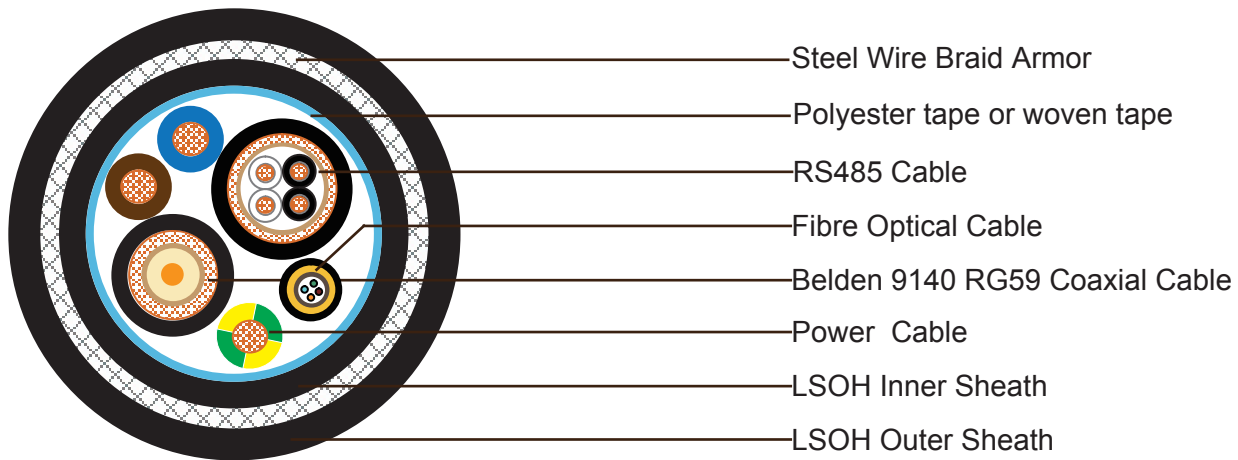




Power Cable + RS 485 + Belden 9104 + Fiber Optic Cable Steel Wire Braid Armored Composite Cable

Construction:



3x12AWG Power Cable

Conductor	12AWG (19/0.455mm stranded copper wire)
Insulation	XLPE compound. Nominal outer diameter 3.75mm
Insulation Color	Blue, Brown and Green/Yellow

2 Pair 24AWG RS485

Conductor	24AWG (7/0.2mm stranded copper to IEC228 Class 2)
Insulation	PE material. Thickness 0.8mm
Shield	Aluminium polyester tape with 24 AWG stranded tinned copper drain wire
Braid	Copper wire braiding
Sheath	LSZH sheath. Nominal outer diameter is 9.0mm
Sheath Color	Black



Composite Cables

Belden 9104 RG59 Coaxial Cable

Conductor	20AWG bare copper covered steel wire
Insulation	Foam high density polyethylene. Norminal outer diameter 3.66mm
Shield	Aluminium foil with 100% coverage
Braid	Aluminium wire braiding with 67% coverage
Sheath	PVC sheath. Norminal outer diameter 6.02mm
Sheath Color	Black

4 Core Central Loose Tube Fiber Optic Cable

Optical Fiber	Multi-mode cabled fibers meet or exceed the requirements of ITUT G.651 specification
Loose Tube	PBT tubes 1.80 ± 0.1 mm outer diameter, contains 4 fibers. The tubes are filled with a thixotropic gel to prevent the ingress of water
Aramid Yarn	Aramid Yarn is laid over the tube core to serve as peripheral strength member
Sheath	LSZH outer Sheath is extruded over the glass yarn. Nominal outer diameter is about 3.40mm
Sheath Color	Black

Element Assembly

Wrapping Tape	Polyester tape or woven tape
Inner Jacket	Black LSZH, thickness 1.20mm
Aarmor	Steel wire braid, coverage 80%
Sheath	LSZH, thickness 1.80mm, nominal outer diameter 22.0 ± 2.0 mm
Sheath Color	Black

Optical Characteristics

Optical Fiber

The Multi-mode fibers meet the ITU G.651 specification, as listed below:



Property	50/125 fibers	62.5/125 fibers
Attenuation @ 850 nm (dB/km)	≤ 3.0	≤ 3.2
Attenuation @ 1300 nm (dB/km)	≤ 1.0	≤ 1.2
Added Attenuation with Bending	≤ 0.5 dB (850 and 1300 nm for 100 turns around a 75 mm mandrel)	
Numerical Aperture	0.20 ± 0.02	0.275 ± 0.015
Bandwidth @ 850 nm	400 MHz*km	160 MHz*km
Bandwidth @ 1300 nm	800 MHz*km	500 MHz*km
Core diameter	50 ± 3 μm	62.5 ± 3 μm
Cladding diameter	125 ± 2 μm	
Core-Cladding offset	≤ 6%	
Cladding non-circularity	≤ 2%	
Core non-circularity	≤ 6%	
Coating diameter	245 ± 10 μm	
Coating / Cladding offset	12 μm	
Proof Test	≥ 0.69 GN/m ² (100 kpsi)	

The fibers contain no splices.

* The data included in the present catalogue are merely indicative; Caledonian Cables Limited reserves to itself the right to change them as its own discretion in any time.