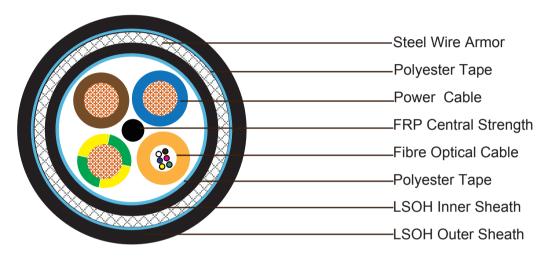
3x2.5 Power Cable + 6C Optical Fibre Cable SWB LSZH Sheathed Composite Cable

Construction:



3x2.5mm² Power Cable (around central member)

Conductor	50/0.25mm Stranded bare copper wire
Insulation	XLPE. Thickness is 0.86mm. Outer diameter 3.5mm
Insulation Color	Blue, Brown and Green/Yellow

6C Optic Fiber Cable

No of fibers in loose tube	6 fibers
Loose tube	Outer diameter: 3.5mm (PE or PVC Sheathwould be used over the loose tube if necessary)

Element Assembly

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Wrapping Tape	Ployester tape
Inner Sheath	Grey LSZH, thickness 0.8mm
Armor	Galvanised steel wire armour, coverage 99%
Wrapping Tape	Ployester tape
Sheath	LSZH, thickness 1.6mm, norminal outer diameter 16.2mm
Sheath Color	Grey



Addison Cables

Composite Cables

Optical Characteristics

Table 1. SM

Property	Requirement	
Optical properties		
Attenuation @ 1310 nm	0.35 dB/km	
Attenuation @ 1550 nm	0.22 dB/km	
Point Discontinuity	0.1 dB @ 1310 or 1550 nm	
Chromatic Dispersion slope:	0.092 ps/km/nm2	
Zero Chromatic Dispersion Wavelength:	1300 - 1324 nm	
Mode Field Diameter @ 1300 nm	9.3 0.5m	
Mode Field Diameter @ 1550 nm	10.5 1.0m	
Fiber Cut-Off Wavelength	1260 70 nm	
Cable Cut-Off Wavelength	1260 nm	
Geometrical properties		
Cladding Diameter:	125 1.0 m	
Core-Cladding Offset	0.8 m	
Cladding Non-Circularity:	1.0 %	
Colored Coating Diameter:	250 10m	
Coating / Cladding Offset:	12m	
Mechanical properties		
Proof Test:	0.7 GN/m2 for 1 second	

Table 2. MM

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



Composite Cables

Bandwidth @ 1300 nm	800 MHz*km	500 MHz*km	
Core diameter	$50 \pm 3 \mu m$	$62.5\pm3~\mu m$	
Cladding diameter	125 ± 2 μm		
Core-Claddingoffset	≤ 6%		
Cladding non-circularity	≤ 2%		
Core non-circularity	≤ 6%		
Coating diameter	245 ± 10 μm		
Coating / Cladding offset	12 μm		
Proof Test	≥ 0.69 GN/m2 (100 kpsi)		

Electrical and Physical Properties @20°C(Power Cable):

Max. Electrical Resistance: 7.98Ohm/km Insulation Resistance: ≥5500 MOhmxkm

Dielectric Strength: 1500V/1'

Physical Characteristic:

Min Bending Radius: 240mm

Operating Temperature: -35°C/+80°C

Fire Characteristics:

Flame Propagation: IEC60332-1

Low Smoke Capacity: IEC61034-1/2

Halogen Free: IEC60754-1/2

^{*} 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.