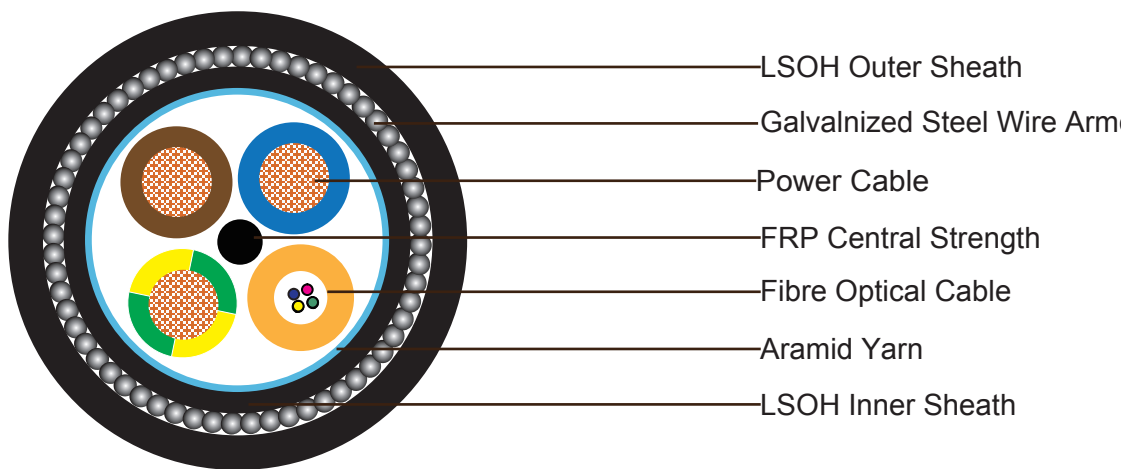




### 3x2.5 Power Cable + 4C Fiber Optic Cable SWA LSZH Sheathed Composite Cable

#### Construction:



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

<b>Conductor</b>	50/0.25mm Stranded bare copper wire
<b>Insulation</b>	XLPE. Thickness is 0.7mm. Outer diameter 3.5mm
<b>Insulation Color</b>	Blue, Brown and Green/Yellow

#### 4C Optic Fiber Cable, G652D ( around central member )

No of fibers in loose tube	4 fibers
Loose tube	Outer diameter: 3.5mm (PE or PVC Sheath would be used over the loose tube if necessary)

#### Element Assembly

<b>Central Strength Member</b>	Steel wire central strength member with PE coating if necessary
<b>Strength member</b>	Aramid yarn helically is applied over cable core.
<b>Inner Jacket</b>	LSZH, thickness is 1.0mm
<b>Armor</b>	Galvanised steel wire armour, Outer diameter: 0.9mm



<b>Sheath</b>	LSZH, thickness is 1.6mm, nominal outer diameter 17.0mm
<b>Sheath Color</b>	Black

## Optical Characteristics

### 4C Optic Fiber Cable, G652D ( around central member )

Parameter		Standard Single Mode Fiber per ITU-T G.652D	Non-zero Dispersion Shifted fiber per ITU-T G.655	Non-zero Dispersion Shifted fiber per ITU-T G.656	Units
<b>Fiber Code</b>		9	8	7	
<b>Attenuation, Loose Tube Cables</b>	@1310nm	≤0.35	N/A	N/A	dB/km
	@1550nm	≤0.22	≤0.22	≤0.22	dB/km
	@1625nm	≤0.25	≤0.26	≤0.26	dB/km
<b>Attenuation, Tight Buffer or Semi-Tight Cables</b>	@1310nm	≤0.38	N/A		dB/km
	@1550nm	≤0.28	N/A		dB/km
<b>Chromatic Dispersion</b>	between 1260 and 1360nm (O Band)	≤3.5	N/A	N/A	ps/(nm*km)
	between 1460 and 1530nm (S Band)	N/A	N/A	2.0-7.0	ps/(nm*km)
	between 1530 and 1565nm (C Band)	≤18	1.0-10.0	7.0-10.0	ps/(nm*km)
	between 1565 and 1625nm (L Band)	≤22	7.0-12.0	10.0-14.0	ps/(nm*km)
<b>Zero Dispersion Wavelength</b>		1310±11	1530-1560	1460-1565	nm
<b>Zero Dispersion Slope</b>		0.093	0.093	0.093	ps/(nm <sup>2</sup> .km)
<b>Point Discontinuity at 1300nm &amp; 1550nm</b>		0.1	0.1	0.1	dB
<b>Mode Field Diameter</b>	@1300nm	9.3±0.5	N/A	N/A	um
	@1550nm	10.4±0.8	8.5±0.6	9.0±0.5	um
<b>Cable Cut-off Wavelength</b>		≤1260	≤1450	≤1450	nm
<b>PMD (Individual fiber)</b>		≤0.2	≤0.2	≤0.2	ps/km <sup>1/2</sup>
<b>Cladding Diameter</b>		125±1	125±1	125±1	um



## Composite Cables

<b>Core/Cladding Concentricity Error</b>	≤0.5	≤0.5	≤0.6	um
<b>Cladding Non-Circularity</b>	≤1.0	≤1.0	≤1.0	%
<b>Coating Non-Circularity</b>	≤6.0	≤6.0	≤6.0	%
<b>Primary Coating Diameter</b>	245±10	245±10	245±10	um
<b>Proof-Test Level</b>	100 (0.7)	100 (0.7)	100 (0.7)	Kpsi/GN/m2
<b>Fatigue Coefficient</b>	≥20	≥20	≥20	
<b>Temperature Dependence between 0°C ~ +70°C @ 1310 &amp; 1550nm</b>	0.1	0.1	0.1	Db/km

The fibers contain no splices.

## Mechanical Properties:

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### Tensile load:

**Short term:** 600N

**Long term:** 1500N

## Fire Characteristics:

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**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.