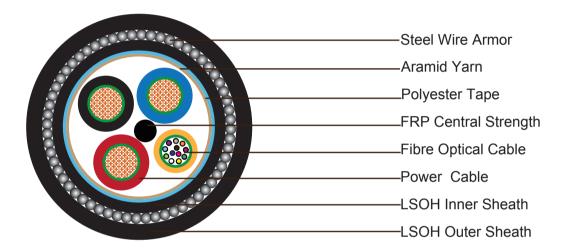


3x2.5 Power Cable+12C Fiber Optic Cable SWB Fire Resistant Composite Cable

Construction:



3x2.5mm² Power Cable

Conductor	7/0.67mm Stranded bare copper wire			
Fire barrier	Mica tape wrapped copper conductor			
Insulation	XLPE. Thickness is 0.7mm. Outer diameter 4.6-4.7mm			

12C Optic Fiber Cable, G652D (around central member)

No of fibers in loose tube	12 fibers
	outer diameter: 3.8mm (PE or PVC Sheathwould be used over the loose tube if necessary)
Fire barrier	Mica tape wrapped loose tube

Element Assembly

Central Strength Member	tral Strength Member 1.9mm FRP central strength member with PE/PVC coating if necessary			
Strength member	Aramid yarn helically is applied over cable core.			
Inner Jacket	LSZH, thickness is 1.0mm			
Armor	SWB			

Composite Cables



Sheath	LSZH, thickness is 1.8mm, norminal outer diameter 18.2±1.0mm
Sheath Color	Black

Optical Characteristics

12C 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
Fiber Code		9	8	7	
Attenuation, Loose Tube	@1310nm	≤0.35	N/A	N/A	dB/km
	@1550nm	≤0.22	≤0.22	≤0.22	dB/km
Cables	@1625nm	≤0.25	≤0.26	≤0.26	dB/km
Attenuation, Tight Buffer	@1310nm	≤0.38	N/A		dB/km
or Semi-Tight Cables	@1550nm	≤0.28	N/A		dB/km
Chromatic Dispersion	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)
Zero Dispersion	n Wavelength	1310±11	1530-1560	1460-1565	nm
Zero Dispersior		0.093	0.093	0.093	ps/(nm2.km)
Point Discontinuity at 1300nm& 1550nm		0.1	0.1	0.1	dB
Mode Field Diameter	@1300nm	9.3±0.5	N/A	N/A	um
	@1550nm	10.4±0.8	8.5±0.6	9.0±0.5	um
Cable Cut-offWavelength		≤1260	≤1450	≤1450	nm
PMD (Individual fiber)		≤0.2	≤0.2	≤0.2	ps/km1/2
Cladding Diameter		125±1	125±1	125±1	um



Composite Cables

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

The fibers contain no splices.

Mechanical Properties:

Tensile load:

Operating: 600N

Installation: 1500N

Bending radius:

Operating: 12.5×OD

Installation: 25×OD

Compressive load:

Short term: 1000N

Long term: 300N

Fire Characteristics:

Fire Resistance: IEC 60331 Flame Propagation: IEC60332 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.