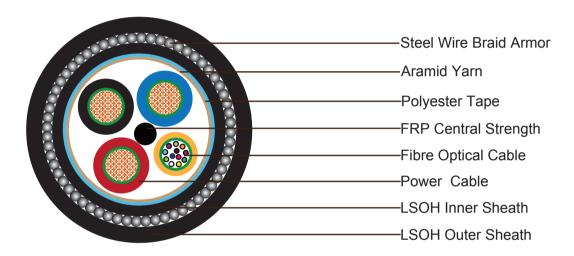


Addison Cables

Composite Cables

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



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	01550nm ≤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	Wavelength	1310±11	1530-1560	1460-1565	nm
Zero Dispersion	•	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



Addison Cables

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.