

## DAC OPTICAL FIBRE CABLE

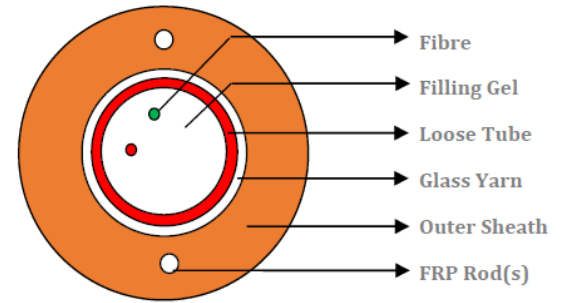
Part Number: DAC-2FG657A2-1003

### Description

DAC Optical Fibre Cable 2F

### Key Features

- Optical Fibre are placed in water blocked loose tube
- Glass yarn is provided as peripheral strength member
- FRP rods are embedded as strength member
- Polyethylene sheath as outer protection



### Applications

- For direct burial in the ground as a customer connection

### Standards

- IEC 60793
- ANSI/ICEA S-87-640
- Telcordia GR-20
- ITU-T
- RoHS
- REACH

## Product Specifications

### Cable Construction

Parameter	Structure/Layout/Material
Fiber Count	2F
Number of fibres per tube	2
Number of loose tubes	1
Embedded Strength Member	FRP Rods- 2 nos
Peripheral Strength Member	Glass Yarn
Outer Sheath	HDPE- Orange
Cable Diameter	5.8 ± 0.5 mm
Cable Weight	30.0 ± 10 kg/km

## Colour Coding

Fibre Count	1	2
Fibre Colour	Rd	Gr

Loose Tube Colour	Rd
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## Cable & Fibre Characteristics

Tensile Strength (max)	1200N		IEC-60794-1-21-E1
Crush Resistance	2000 N		IEC-60794-1-21-E3
Impact Strength	5 N.m		IEC-60794-1-21-E4
Torsion	$\pm 180^\circ$		IEC-60794-1-21-E7
Minimum Bend Radius	20 x D		IEC-60794-1-21-E11
Environmental Performance	Installation	-20 °C to + 70 °C	IEC-60794-1-22-F5
	Operation	-30 °C to + 70 °C	
	Storage	-30 °C to + 70 °C	

Fibre Type	G.657A2			
Attenuation	1310 nm		≤ 0.36 dB/km	
	1550 nm		≤ 0.22 dB/km	
Chromatic Dispersion	1285-1330 nm		≤ 3.5 ps/nm.km	
	1550 nm		≤ 18 ps/nm.km	
PMD (Max. Individual)	≤ 0.1 ps/√ km			
PMD (Link design value)	≤ 0.06 ps/√ km			
Cable cut off wavelength λ <sub>cc</sub>	≤ 1260 nm			
MFD	1310 nm		8.6 ± 0.4 μm	
Bending Induced Attenuation	1 Turn	Ø 15	1550 nm	≤0.2 dB
			1625 nm	≤0.5 dB
	1 Turn	Ø 20	1550 nm	≤ 0.1 dB
			1625 nm	≤ 0.2 dB
	10 Turns	Ø 30	1550 nm	≤ 0.03 dB
			1625 nm	≤ 0.1 dB
Core-Cladding Concentricity Error	≤ 0.5 μm			

Cladding Diameter	$125 \pm 0.7 \mu\text{m}$
Cladding Non Circularity	$\leq 0.8 \%$
Primary Coating Diameter (Uncoloured)	$242 \pm 5 \mu\text{m}$

## Cable Length

Cable Length	$4.0 \text{ km} \pm 5\%$
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