

## OPTICAL CABLE DAC 2F

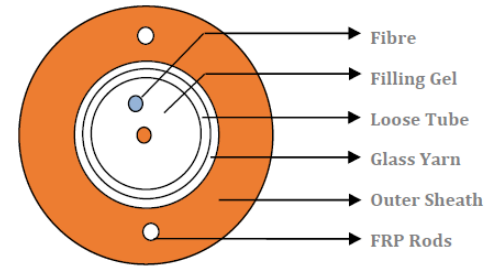
Part Number: DAC-2FG657A1-1001

### Description

Dac Optical Fibre Cable

### 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
- HDPE 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
Fibre Count	2F
Number of fibres per tube	2
Number of loose tubes – PBT	1
Loose Tube OD	1.95 ± 0.1 mm
Embedded Strength Member	FRP Rods – 2 nos
Peripheral Strength Member	Glass Yarn
Outer Sheath	HDPE – Orange – UV Stabilized
Cable Diameter	5.2 ± 0.3 mm
Cable Weight	25.0 ± 5 kg/km

## Colour Coding

Fibre Count	1	2
Fibre Colour EIA/TIA – 598	Bl	Or

Loose Tube Colour	Nt
-------------------	----

## Cable & Fibre Characteristics

Tensile Strength (max.)	400 N	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	±180°	IEC-60794-1-21-E7
Minimum Bend Radius	Static: 52 mm Dynamic: 104 mm	IEC-60794-1-21-E11
Water Penetration Test	1 m water head, 3 m sample, 24 hours	IEC-60794-1-22-F5
Environmental Performance	Installation	-30°C to +60°C
	Operation	-20°C to +60°C
	Storage	-30°C to +60°C

Fibre Type	G.657A1			
Attenuation	1310 nm		≤ 0.36 dB/km	
	1550 nm		≤ 0.23 dB/km	
Chromatic Dispersion	1285-1330 nm		≤ 3.5 ps/nm.km	
	1550 nm		≤ 18 ps/nm.km	
	1625 nm		≤ 22 ps/nm.km	
PMD (Max. Individual)	≤ 0.15 ps/√km			
PMD (Link design value)	≤ 0.06 ps /√km			
Cable cut off wavelength λ <sub>cc</sub>	≤ 1260 nm			
MFD	1310 nm		9.1 ± 0.3 μm	
	1550 nm		10.3 ± 0.5 μm	
Bending Induced Attenuation	1 Turn	φ 20	1550 nm	≤ 0.75 dB
			1625 nm	≤ 1.5 dB
	10 Turn	φ 30	1550 nm	≤ 0.25 dB
			1625 nm	≤ 1.0 dB

Core-Cladding Concentricity Error	$\leq 0.5 \mu\text{m}$
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	$2.0 \text{ km} \pm 5\%$
--------------	--------------------------