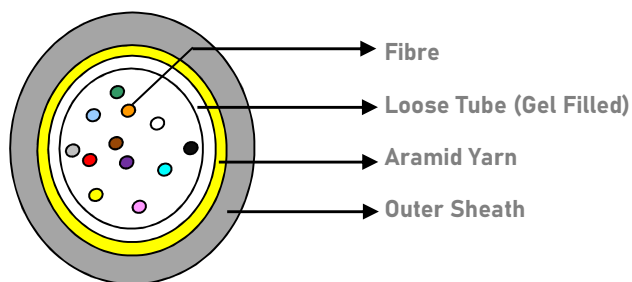




HFCL Limited
(FORMERLY - HIMACHAL FUTURISTIC COMMUNICATIONS LIMITED) - GOA

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Technical Specifications
4/12F Unitube Micro OFC
A-DQ2Y - UT - 250 μ m



Product

Details

Optical Fibre inside central loose tube
Aramid yarn as strength member
Polyethylene sheath as outer protection

Cable Construction

Parameter	Structure/Layout/Material
Fiber Count	4/12F
Number of fibers per tube	4/12F
Number of loose tubes - PBT	1
Peripheral Strength Member	Aramid Yarn
Outer Sheath - PE - Black	---
Cable Diameter	2.5 $\pm$ 0.3 mm
Cable Weight	5 $\pm$ 2 kg/km

Colour Coding

Fibre Colour DIN VDE 0888	Rd	Gr	Bl	Yl	Wh	Sl	Br	Vi	Aq	Bk	Or	Pk
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Tube Colour DIN VDE 0888	Nt
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Cable & Fibre Characteristics

Tensile Strength (max.)	180 N		IEC-60794-1-21-E1
Crush Resistance (max.)	500 N/dm		IEC-60794-1-21-E3
Impact Strength	4.4 N.m		IEC-60794-1-21-E4
Torsion	± 180 °		IEC-60794-1-21-E7
Minimum Bend Radius	20 x D		IEC-60794-1-21-E11
Environmental Performance	Installation	-5 °C to + 70 °C	IEC-60794-1-22-F5
	Operation	-20 °C to + 70 °C	
	Storage	-20 °C to + 70 °C	

Fiber Type	G.652D	
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
PMD	≤ 0.2 ps/√km	
Cable cut off wavelength λ_{cc}	≤ 1260 nm	
MFD	1310 nm	9.2 ± 0.4 μm
	1550 nm	10.4 ± 0.5 μm
Core-Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	125 ± 0.7 μm	
Cladding Non Circularity	≤ 0.7 %	
Primary Coating Diameter (Uncoloured)	242 ± 5 μm	

Fiber 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
PMD	≤ 0.2 ps/ $\sqrt{\text{km}}$	
Cable cut off wavelength λ_{cc}	≤ 1260 nm	
MFD	1310 nm	9.2 ± 0.4 μm
	1550 nm	10.4 ± 0.5 μm
Core-Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	125 ± 0.7 μm	
Cladding Non Circularity	≤ 0.7 %	
Primary Coating Diameter (Uncoloured)	242 ± 5 μm	

Fiber Type	G.657A2	
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
PMD	≤ 0.2 ps/ $\sqrt{\text{km}}$	
Cable cut off wavelength λ_{cc}	≤ 1260 nm	
MFD	1310 nm	8.6 ± 0.4 μm
Core-Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	125 ± 0.7 μm	
Cladding Non Circularity	≤ 0.7 %	
Primary Coating Diameter (Uncoloured)	245 ± 10 μm	

Cable Marking

HFCL Ltd, 4/12F SM G.652D/G.657A1/G.657A2 MICRO *Year of manufacture, Length Code, Meter Marking*

Cable Length

2.0 km ± 10 %

Packaging

Wooden drums or reels

Cable end sealed

Drum marking: Drum number, User name, HFCL Limited, Fiber count, Cable Length, Date of manufacture, Net weight, Gross weight

Cable Performance
Standards

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