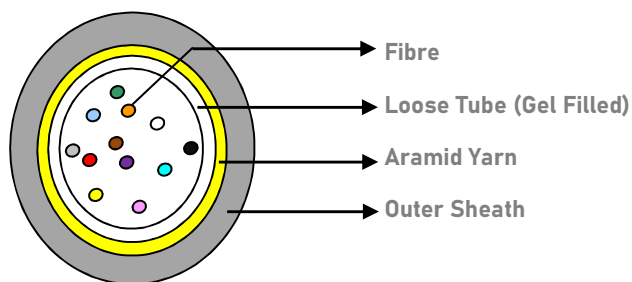




HFCL Limited
(FORMERLY - HIMACHAL FUTURISTIC COMMUNICATIONS LIMITED) - GOA

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Technical Specifications
12/24F Unitube Micro OFC
A-D(ZN)2Y - UT -100 N - 200 um



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	12F	24F
Number of fibers per tube	12	24
Number of loose tubes - PBT	1	
Peripheral Strength Member	Aramid Yarn	
Outer Sheath - PE - Black	--	
Cable Diameter	2.5 ± 0.3 mm	3.5 ± 0.3 mm
Cable Weight	5 ± 2 kg/km	10 ± 2 kg/km

Colour Coding

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

*Fibers from 13-24 shall be ring marked

Tube Colour DIN VDE 0888	Nt
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Cable & Fibre Characteristics

Tensile Strength (max.)	100 N	IEC-60794-1-21-E1
Crush Resistance	300 N/10 cm	IEC-60794-1-21-E3
Impact Strength	1 J	IEC-60794-1-21-E4
Torsion	± 180 °	IEC-60794-1-21-E7
Minimum Bend Radius	Under Traction : 20 x D Without Traction : 10 x D	IEC-60794-1-21-E11
Environmental Performance	Installation	-5 °C to + 50 °C
	Operation	-20 °C to + 70 °C
	Storage	-20 °C to + 70 °C
		IEC-60794-1-22-F5

Fiber Type	G.657A1 -200 μm			
Attenuation	1310 nm	≤ 0.36 dB/km		
	1550 nm	≤ 0.22 dB/km		
Chromatic Dispersion	1550 nm	≤ 17.5 ps/nm.km		
PMD (Max. Individual)	≤ 0.1 ps/√km			
PMD (Link design value)	≤ 0.06 ps / km			
Cable cut off wavelength λ _{cc}	≤ 1260 nm			
MFD	1310 nm	8.8 ± 0.4 μm		
	1550 nm	10.0 ± 0.5 μm		
Bending Induced Attenuation	1 Turn	φ 20	1550 nm	≤ 0.20 dB
			1625 nm	≤ 0.50 dB
	10 Turn	φ 30	1550 nm	≤ 0.20 dB
			1625 nm	≤ 0.50 dB
Core-Cladding Concentricity Error	≤ 0.6 μm			
Cladding Diameter	125 ± 1.0 μm			
Cladding Non Circularity	≤ 1.0 %			
Primary Coating Diameter (Coloured)	200 ± 10 μm			

Cable Marking

HFCL Ltd 12/24F SM G.657A1 MICRO *Year of manufacture, Length Code, Meter Marking*

Cable Length

2.0 km $\pm$ 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.