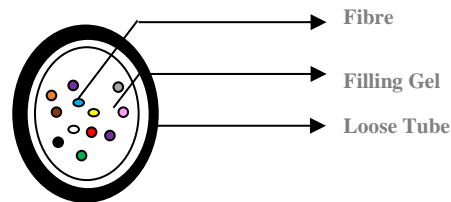




Technical Specifications 12F Unitube Micro OFC



Product Details

Optical Fibre inside central loose tube
Nylon sheath as outer protection

Cable Construction

Parameter	Structure/Layout/Material
Fibre Count	12F
Number of fibre per unit	12
Outer Sheath	Nylon 12 - Black
Overall Cable Diameter (Nominal)	2.3 ± 0.1 mm
Cable Weight (Nominal)	5.0 kg/km ± 10%

Colour Coding

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

Tensile Strength	80 N	IEC-60794-1-21-E1	
Crush Resistance	800 N/100 mm	IEC-60794-1-21-E3	
Impact Strength	2 N.m	IEC-60794-1-21-E4	
Torsion	± 180 °	IEC-60794-1-21-E7	
Minimum Bend Radius	During Installation : 15 x OD After Installation : 10 x OD	IEC-60794-1-21-E11	
Drip Test	30 cm, 70 °C , 24 hours	IEC-60794-1-21-E14	
Water Penetration Test	1 m water head, 3m sample, 24 hours	IEC-60794-1-22-F5	
Environmental Performance	Installation	-10 °C to + 50 °C	IEC-60794-1-22-F1
	Operation	-30 °C to + 70 °C	
	Storage	-30 °C to + 70 °C	

Note: All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be ≤ 0.1 dB/km.

Fibre Type	G.657A1			
Attenuation	1310 nm	≤ 0.35 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)	≤ 0.2 ps/√km			
PMD (Link design value)	≤ 0.1 ps /√km			
Cable cut off wavelength λ _{cc}	≤ 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	≤ 0.5 μm			
Cladding Diameter	125 ± 0.7 μm			
Cladding Non Circularity	≤ 0.8 %			
Primary Coating Diameter (Uncoloured)	242 ± 5 μm			

Cable Marking

As per customer requirement.

Cable Length

6.0 km ± 5 %

Packaging

Wooden drums or reels

Cable end sealed

Drum marking: Drum number, User name, HFCL Limited, Fibre 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.