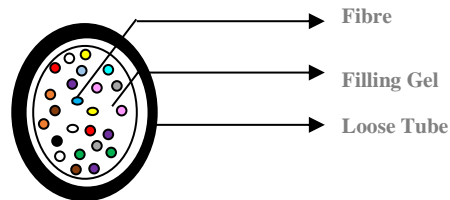




Technical Specifications 24F Unitube Micro OFC



Product Details

Optical Fibre inside central loose tube
Nylon sheath as outer protection

Cable Construction

Parameter	Structure/Layout/Material
Fibre Count	24F
Number of fibre per unit	24
Outer Sheath	PC & Nylon 12 (Natural & Black)
Overall Cable Diameter (Nominal)	2.5 ± 0.1 mm
Cable Weight (Nominal)	6.0 kg/km ± 10%

Colour Coding

Fibre Colour 1-12	Rd	Wh	Yl	Bl	Gr	Vi	Br	Bk	Or	Aq	Pk	Sl
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Fibre Colour 13-24	Rd*	Wh*	Yl*	Bl*	Gr*	Vi*	Br*	Nt*	Or*	Aq*	Pk*	St*
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*Ring marking on fibres from 13-24 at every 50 mm distance. Natural ring marked fibre instead black fibre.

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
	Operation	-30 °C to + 70 °C
	Storage	-30 °C to + 70 °C
		IEC-60794-1-22-F1

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	1550 nm		≤ 17.5 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			
Bending induced attenuation	1 turn	φ 20 mm	1550 nm	≤ 0.20 dB
			1625 nm	≤ 0.50 dB
	10 turns	φ 30 mm	1550 nm	≤ 0.20 dB
			1625 nm	≤ 0.50 dB
MFD	1310 nm		9.1 ± 0.4 μm	
Core-Cladding Concentricity Error	≤ 0.5 μm			
Cladding Diameter	125 ± 0.7 μm			
Cladding Non Circularity	≤ 0.8 %			
Primary Coating Diameter	200 ± 5 μm (Coloured)			

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.