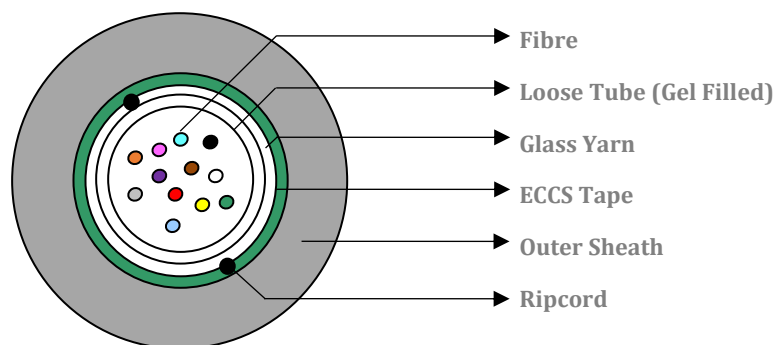


Technical Specifications

12/24F Unitube Armoured OFC



Product

Details

Optical Fibres inside central loose tube
Glass yarn as peripheral strength member
Corrugated steel tape armour for rodent protection
Polyethylene sheath as outer protection

Cable Construction

Parameter	Structure/Layout/Material	
Fibre Count	12F	24F
Number of fibres per tube	12	24
Number of loose tubes	1	
Loose Tube OD	3.2 ± 0.2 mm	
Peripheral Strength Member	Glass Yarn Water Blocking	
Armouring	ECCS Tape	
Outer Sheath	PE - Black	
Number of Ripcords	2 - Polyester	
Cable Diameter	8.5 ± 0.5 mm	
Cable Weight	75 ± 10 kg/km	

Colour Coding

Fibre Count	1	2	3	4	5	6	7	8	9	10	11	12
Fibre Colour	Rd	Gr	Bl	Yl	Sl	Vi	Br	Or	Wh	Pk	Bk	Aq

Fibre Count	13	14	15	16	17	18	19	20	21	22	23	24
Fibre Colour	Rd*	Gr*	Bl*	Yl*	Sl*	Vi*	Br*	Or*	Wh*	Pk*	Nt*	Aq*

*black ring marking on 13th to 24th fibre, 22nd fibre shall be natural with black ring mark instead of black

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

Cable & Fibre Characteristics

Max. Tensile Strength	Installation: 1800 N Operation: 1000 N		IEC-60794-1-21-E1
Max. Crush Resistance	2000 N/10 cm		IEC-60794-1-21-E3
Impact Resistance	10 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
Water Penetration Test	1 m water head, 3 m sample, 24 hours		IEC-60794-1-22-F5
Environmental Performance	Installation	-5 °C to + 50 °C	IEC-60794-1-22-F1
	Operation	-40 °C to + 70 °C	
	Storage	-20 °C to + 70 °C	

CPR Class	Fca
-----------	-----

Fibre 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 (Max. Individual)	≤ 0.2 ps/√km	
PMD (Link design value)	≤ 0.06 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	≤ 0.8 %	
Coating Diameter	242 ± 5 μm	

Cable Marking

As per customer requirement.

Cable Length

4.0 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