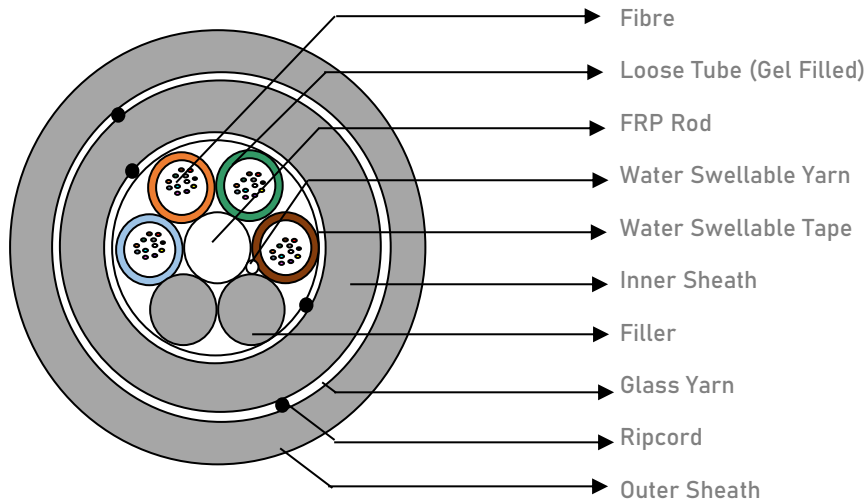


Technical Specifications

24/48/96F Multitube Unarmoured OFC – Anti Termite & Anti Rodent



Product
Details

Optical Fibre containing elements laid up around central strength member
Water blocked loose tubes
Water blocked core interstices
LSZH sheath as Inner protection
Glass Yarn Rodent protection and strength member
HDPE Sheath as outer Protection

Cable Construction

Parameter	Structure/Layout/Material		
Fibre Count	24F	48F	96F
Number of fibres per tube	12		
Number of loose tubes - PBT	2	4	8
Central Strength Member	FRP Rod		
Number Of Fillers – PE – Black	4	2	-
Moisture Barrier	Water Swellable Yarn		
Core Wrapping	Water Swellable Tape		
Inner Sheath	LSZH – Black		
Peripheral Strength Member	Glass Yarn		
Outer Sheath	HDPE – Black – Anti Termite & Anti Rodent		
Number of Ripcords	4 – Polyester		
Cable Diameter	12.0 ± 0.5 mm	12.0 ± 0.5 mm	13.2 ± 0.5 mm
Cable Weight	125 ± 10 kg/km	125 ± 10 kg/km	160 ± 15 kg/km
Fibre Type	G.652D/OM1	G.652D	G.652D

Colour Coding

Fibre Count	1	2	3	4	5	6	7	8	9	10	11	12
Fibre Colour EIA/TIA - 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Tube Count	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour EIA/TIA - 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Cable & Fibre Characteristics

Tensile Strength - Installation	24/48F	96F	IEC-60794-1-21-E1
	3000 N	3500 N	
Crush Resistance	4000 N/100 x 100 mm		IEC-60794-1-21-E3
Impact Strength	15 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	-20 °C to + 70 °C	IEC-60794-1-22-F1
	Operation	-30 °C to + 70 °C	
	Storage	-30 °C to + 70 °C	

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	

Fibre Type	OM1	
Attenuation	850 nm	≤ 3.5 dB/km
	1300 nm	≤ 1.5 dB/km
Bandwidth	850 nm	≥ 200 MHz.km
	1300 nm	≥ 500 MHz.km
Core Diameter	62.5 ± 2.5 μ m	
Core-Cladding Concentricity Error	≤ 1.5 μ m	
Cladding Diameter	125 ± 1.0 μ m	
Cladding Non Circularity	≤ 1.0 %	
Coating Diameter	242 ± 7 μ m	

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, Telcordia GR-20, ITU-T, RoHS, REACH.