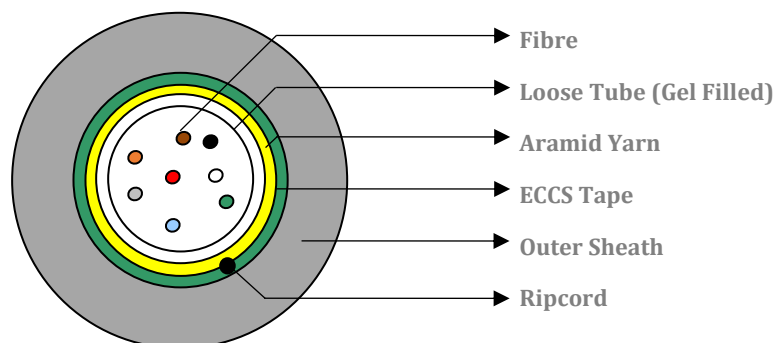


Technical Specifications

2/4/8F Unitube Armoured OFC – KH9M



Product

Details

Optical Fibres inside central loose tube

Aramid yarn as peripheral strength member

Corrugated steel tape armour for rodent protection

LSZH sheath as outer protection

Cable Construction

Parameter	Structure/Layout/Material		
Fibre Count	2F	4F	8F
Number of fibres per tube	2	4	8
Number of loose tubes	1		
Loose Tube OD	3.0 ± 0.2 mm		
Peripheral Strength Member	Aramid Yarn		
Armouring	0.11-0.15 ± 0.02 mm - ECCS Tape		
Outer Sheath	1.0 mm (min.) - LSZH - Black		
Number of Ripcords	1 - Polyester		
Cable Diameter	8.5 ± 0.5 mm		
Cable Weight	100 ± 10 kg/km		

Colour Coding

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

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

*Ring marking on fibres from 13 to 24

Loose Tube Colour	Nt
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Cable & Fibre Characteristics

Max. Tensile Strength	Installation: 600 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	150 mm		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	-30 °C to + 60 °C	
	Storage	-20 °C to + 70 °C	

CPR Class	Fca
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Fibre Type	G.652D	
Attenuation	1310 nm	≤ 0.36 dB/km
	1550 nm	≤ 0.22 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

1050 m/2100 m/3100 m \pm 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