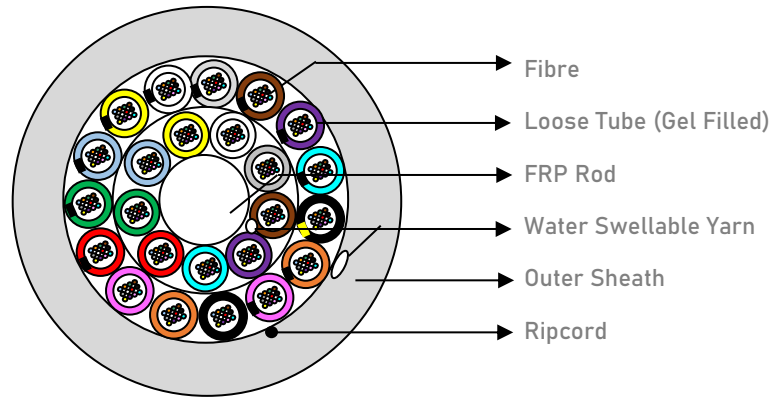


## Technical Specifications

### 288F Multitube Micro OFC



#### Product

#### Details

Optical Fibre containing elements laid up around central strength member

Water blocked loose tubes

Water blocked core interstices

LSZH sheath as outer protection

#### Cable Construction

Parameter	Structure/Layout/Material
Fibre Count	288F
Number of fibres per tube	12
Number of loose tubes	Layer I : 9 Layer II : 15
Central Strength Member	FRP Rod
Moisture Barrier	(FRP+Core) - Water Swellable Yarn
Outer Sheath	LSZH - Black
Ripcords	1 - Polyester
Cable Diameter	8.0 ± 0.3 mm
Cable Weight	65 ± 10 kg/km

Fibre Count	1	2	3	4	5	6	7	8	9	10	11	12
Fibre Colour DIN VDE 0888	Rd	Gr	Bl	Yl	Wh	Sl	Br	Vi	Aq	Bk	Or	Pk

Tube Count	1	2	3	4	5	6	7	8	9			
Tube Colour Layer I	Rd	Gr	Bl	Yl	Wh	Sl	Br	Vi	Aq			
Tube Count	10	11	12	13	14	15	16	17	18	19	20	21
Layer II	Bk	Or	Pk	Rd#	Gr#	Bl#	Yl#	Wh#	Sl#	Br#	Vi#	Aq#
Tube Count	22	23	24									
Layer II - RK	Bk#	Or#	Pk#									

# - denotes single black stripe marking except for black tube, black tube shall have yellow stripe

### Cable & Fibre Characteristics

Tensile Strength (max.)	1000 N		IEC-60794-1-21-E1
Crush Resistance	500 N/10 cm		IEC-60794-1-21-E3
Impact Strength	1 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
Environmental Performance	Installation	-5 °C to + 50 °C	IEC-60794-1-22-F1
	Operation	-20 °C to + 60 °C	
	Storage	-20 °C to + 70 °C	

CPR Class	Eca (Approval Pending)
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Fibre Type	G.657A1			
Attenuation	1310 nm		≤ 0.36 dB/km	
	1550 nm		≤ 0.23 dB/km	
Chromatic Dispersion	1550 nm		≤ 17.5 ps/nm.km	
PMD (Max. Individual)	≤ 0.1 ps/√km			
PMD (Link design value)	≤ 0.06 ps /√km			
Cable cut off wavelength λ <sub>cc</sub>	≤ 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	
	1550 nm		10.2 ± 0.5 μm	
Core-Cladding Concentricity Error	≤ 0.5 μm			
Cladding Diameter	125 ± 0.7 μm			
Cladding Non Circularity	≤ 0.7 %			
Coating Diameter	200 ± 10 μm			

Cable Marking

*As per customer requirement.*

Cable Length

4 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, IEC 60794-5-10, ITU-T, RoHS, REACH.