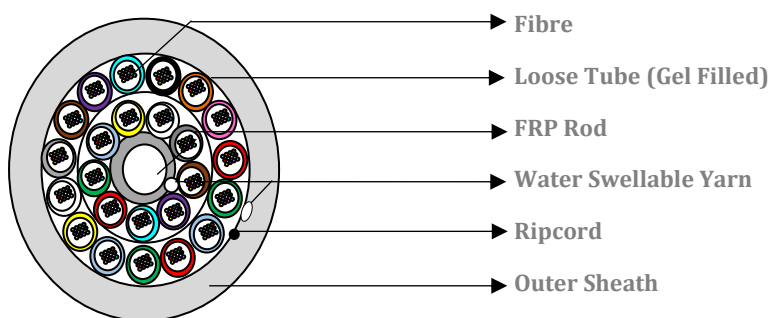


Technical Specifications

72/144/288F Multitube Micro OFC

A-DQ(ZN)2Y



Product

Details

Optical Fibre containing elements laid up around central strength member
Water blocked loose tubes
Water blocked core interstices
Polyethylene sheath as outer protection

Cable Construction

Parameter	Structure/Layout/Material		
Fibre Count	72	144	288
Number of fibres per tube	12		
Number of loose tubes – PBT	6	12	Layer I : 9 Layer II : 15
Central Strength Member – FRP Rod	1.5 ± 0.1 mm	2.5 mm PE up coated	2.0 mm PE up coated
Moisture Barrier – (FRP + Core)	Water Swellable Yarn		
Outer Sheath	0.5 mm (Nominal) – HDPE – Black		
Number of Ripcords	1 – Polyester		
Cable Diameter	5.3 ± 0.3 mm	8.0 ± 0.3 mm	9.5 ± 0.3 mm
Cable Weight	25.0 ± 5 kg/km	52.0 ± 5 kg/km	80.0 ± 5 kg/km

Colour Coding

Fibre Colour DIN VDE 0888	Rd	Gr	Bl	Yl	Wh	Sl	Br	Vi	Aq	Bk	Or	Pk
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Tube Colour DIN VDE 0888	Rd	Gr	Bl	Yl	Wh	Sl	Br	Vi	Aq	Bk	Or	Pk
	Rd	Gr	Bl									

*Tubes from 13-15 shall be ring marked.

Cable & Fibre Characteristics

Tensile Strength	72F : 600 N 144F : 1000 N 288 F : 800 N		IEC-60794-1-21-E1
Crush Resistance	1000 N		IEC-60794-1-21-E3
Impact Strength	1 N.m		IEC-60794-1-21-E4
Torsion	± 360 °		IEC-60794-1-21-E7
Minimum Bend Radius	20 x D		IEC-60794-1-21-E11
Environmental Performance	Installation	-20 °C to + 70 °C	IEC-60794-1-22-F5
	Operation	-30 °C to + 70 °C	
	Storage	-30 °C to + 70 °C	

Fibre Type	G.652D	
Attenuation	1310 nm	≤ 0.35 dB/km
	1550 nm	≤ 0.21 dB/km
Chromatic Dispersion	1285-1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
PMD (Max. Individual)	≤ 0.1 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	≤ 0.7 %	
Primary Coating Diameter (Uncoloured)	242 ± 5 μm	

Fibre Type	G.657A1			
Attenuation	1310 nm	≤ 0.37 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)	≤ 0.1 ps/√km			
PMD (Link design value)	≤ 0.04 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		
Bending Induced Attenuation	1 Turn	φ 20	1550 nm	≤ 0.50 dB
			1625 nm	≤ 1.5 dB
	10 Turn	φ 30	1550 nm	≤ 0.05 dB
			1625 nm	≤ 0.30 dB
	100 Turn	φ 50	1310,1550,1625 nm	≤ 0.01 dB
Core-Cladding Concentricity Error	≤ 0.5 μm			
Cladding Diameter	125 ± 0.7 μm			
Cladding Non Circularity	≤ 0.7 %			
Primary Coating Diameter (Uncoloured)	242 ± 5 μm			

Cable Marking

HFCL Ltd, 72/144/288F SM G.652D/G.657A1 MICRO *Year of manufacture, Length Code, Meter Marking*

Cable Length

2 km $\pm$ 10 %

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.