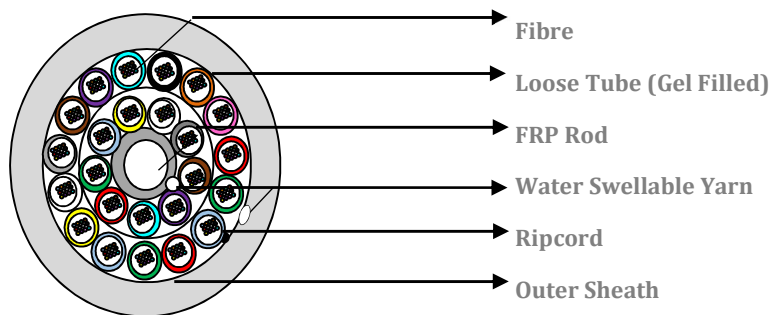


Technical Specifications

72/144/288/432/576F Multitube Micro OFC

A-DQ(ZN)2Y – MT – G652D



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				
Fiber Count	72	144	288	432	576
Number of fibres per tube	12			24	
Number of loose tubes – PBT	6	12	Layer I : 9 Layer II : 15	18	24
Central Strength Member – FRP Rod	1.6 ± 0.1 mm	2.5 mm up coated	2.0 mm PE up coated	1.8 ± 0.1 mm	2.7 mm up coated
Moisture Barrier – (FRP + Core)	Water Swellable yarn				
Outer Sheath – HDPE - Black	0.5 mm (Nominal)				
Number of Ripcords - Polyester	1				
Cable Diameter	5.8 ± 0.1 mm	8.0 ± 0.1 mm	9.5 ± 0.1 mm	9.5 ± 0.1 mm	11.0 ± 0.1 mm
Cable Weight	25.0 ± 5 kg/km	52.0 ± 5 kg/km	80.0 ± 5 kg/km	95.0 ± 5 kg/km	125.0 ± 15 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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Fibre 13 to 24 are a repeat of the above colours but with the addition of ring markings

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/288F: ≥ 800 N 432F: ≥ 750 N 144F/576F: ≥ 1500 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	$\pm 360^\circ$		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	

Fiber Type	G.652D		G.657A1
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	≤ 17.5 ps/nm.km
PMD	≤ 0.2 ps/ $\sqrt{\text{km}}$		
Cable cut off wavelength λ_{cc}	≤ 1260 nm		
MFD	1310 nm	9.2 ± 0.4 μm	8.8 ± 0.4 μm
	1550 nm	10.4 ± 0.5 μm	10.3 ± 0.5 μm
Core-Cladding Concentricity Error	≤ 0.5 μm		
Cladding Diameter	125 ± 0.7 μm		
Cladding Non Circularity	≤ 0.7 %		
Primary Coating Diameter	245 ± 15 μm (Uncoloured) 250 ± 10 μm (Coloured)		190 ± 10 μm (uncoloured) 200 ± 10 μm (coloured)

Cable Marking

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

HFCL Ltd, 432/576F SM G.657A1 MICRO *Year of manufacture, Length Code, Meter Marking*

Cable Length

2/4 km $\pm$ 5 %

Packaging

Wooden drums or reels

Cable end sealed

Drum marking: Drum number, User name, HFCL Limited, Fiber 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.