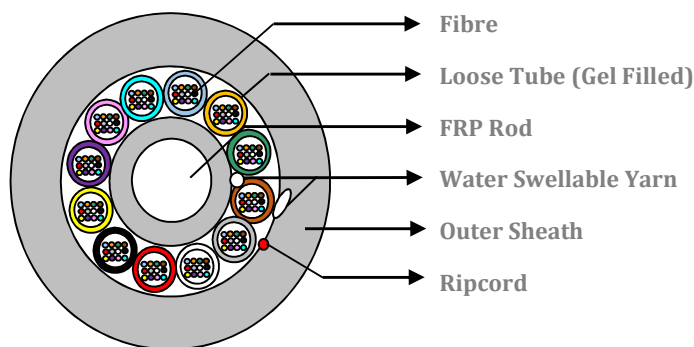




HFCL Limited
(FORMERLY - HIMACHAL FUTURISTIC COMMUNICATIONS LIMITED) - GOA

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Technical Specifications
144/288F Multitube Micro OFC
A-DQ(ZN)2Y - MT - 250um



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		
Fiber Count	144	288
Number of fibres per tube		24
Number of loose tubes - PBT	12	12
Number of Fillers - HDPE Black		
Central Strength Member - FRP Rod	2.5 mm PE up coated	3.5 mm up coated
Moisture Barrier	Water swellable yarn	
Outer Sheath	HDPE - Black	
Number of Ripcords - Polyester	1	
Cable Diameter	8.8 ± 0.3 mm	11.3 ± 0.3 mm
Cable Weight	55 ± 5 kg/km	120 ± 5 kg/km

Colour Coding

Fiber Colour EIA/TIA - 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq
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Loose Tube Colour EIA/TIA - 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq
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Cable & Fibre Characteristics

Tensile Performance	12-72F: 600 N 144F: 1000 N 288F: 2000 N		IEC-60794-1-21-E1
Crush Performance	1000 N		IEC-60794-1-21-E3
Impact Resistance	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
Water Penetration Test	1 m water head, 3m sample, 24 hours		IEC-60794-1-21-F5
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.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
PMD (Max. Individual)	≤ 0.1 ps/√km	
PMD (Link design value)	≤ 0.08 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 ± 1.0 μm	
Cladding Non Circularity	≤ 1.0 %	
Primary Coating Diameter	245 ± 15 μm	

Cable Marking

HFCL Ltd 12/24/48/96/144/288F G.657A1 MICROCABLE *Year of manufacture, Length Code, Meter Marking*
Or
As per customer requirement.

Cable Length

2.0 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.