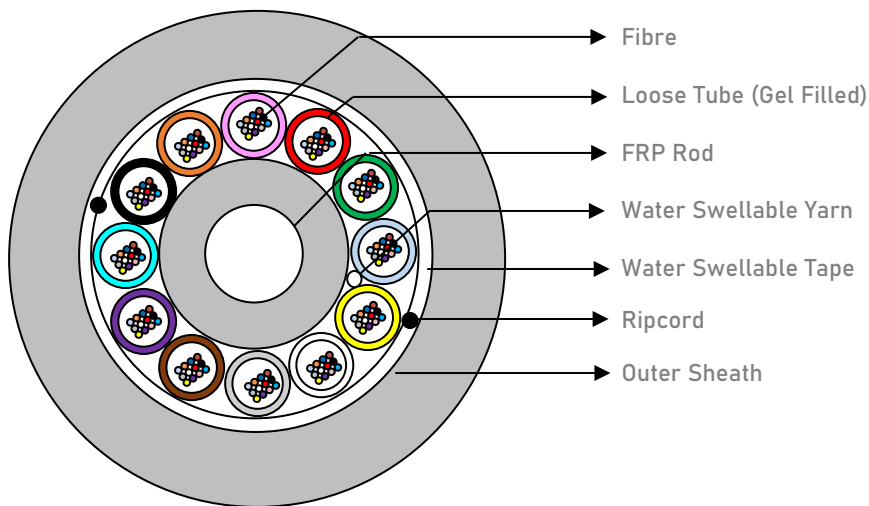


Technical Specifications

144F Multitube Duct OFC

144F Cable Shown



Product
Details

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

Cable Construction

Parameter	Structure/Layout/Material
Fibre Count	144F
Number of fibres per tube	12
Number of loose tubes	12
Central Strength Member	FRP Rod PE Upcoated
Moisture Barrier	Water Swellable yarn & Water Swellable tape
Outer Sheath	HDPE - Black
Number of Ripcords	2 - Polyester
Cable Diameter	14.0 ± 0.5 mm
Cable Weight	165 ± 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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Tube Colour DIN VDE 0888	Rd	Gr	Bl	Yl	Wh	Sl	Br	Vi	Aq	Bk	Or	Pk
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Cable & Fibre Characteristics

Tensile Strength	3000 N		IEC-60794-1-21-E1
Crush Resistance	2000 N		IEC-60794-1-21-E3
Impact Strength	10 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
Water Penetration Test	1 m water head, 3 m sample, 24 hours		IEC-60794-1-22-F5
Environmental Performance	Installation	-20 °C to + 70 °C	IEC-60794-1-22-F1
	Operation	-30 °C to + 70 °C	
	Storage	-30 °C to + 70 °C	

Fibre 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		
	1625 nm	≤ 22 ps/nm.km		
PMD (Max. Individual)	≤ 0.15 ps/√km			
PMD (Link design value)	≤ 0.06 ps /√km			
Cable cut off wavelength λ _{cc}	≤ 1260 nm			
MFD	1310 nm	9.1 ± 0.3 μm		
	1550 nm	10.3 ± 0.5 μm		
Bending Induced Attenuation	1 Turn	φ 20	1550 nm	≤ 0.75 dB
			1625 nm	≤ 1.5 dB
	10 Turn	φ 30	1550 nm	≤ 0.25 dB
			1625 nm	≤ 1.0 dB
Core-Cladding Concentricity Error	≤ 0.5 μm			
Cladding Diameter	125 ± 0.7 μm			
Cladding Non Circularity	≤ 0.8 %			
Primary Coating Diameter (Uncoloured)	242 ± 5 μm			

Cable Marking

HFCL Ltd 144F LT SM G.657A1 DUCT *Year of manufacture, Length Code, Meter Marking Or 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, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.