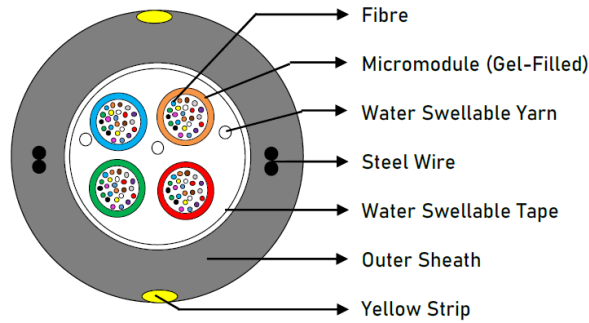


96F ULW CABLE



Product

Optical Fibre containing elements laid up freely
Gel filled micromodules
Water blocked core interstices
Embedded Steel rod strength members
HDPE sheath
PIA Approved

CABLE CONSTRUCTION

Parameter	Structure/Layout/Material
Fibre Count	96F
Number of fibres per tube	24
Number of Module	4
Embedded Strength Member	Braided Steel Wire
Moisture Barrier	Water Swellable Yarn & Water Swellable Tape
Strip Marking Width –HDPE- Yellow	1.25mm (Nominal)
Outer Sheath –HDPE- BLACK UV	1.3mm (Nominal)
Cable Diameter	7.0 ± 0.2mm
Nominal Cable Weight	35.0 Kg/km (Nominal)

COLOUR CODING

Fibre Colour	Bl	Or	Gr	Rd	Sl	Yl	Br	Vi	Bk	Wh	Pk	Aq
	Bl*	Or*	Gr*	Rd*	Sl*	Yl*	Br*	Vi*	Nt*	Wh*	Pk*	Aq*

* Single ring marking on fibres from 13 to 24th fibre, natural ring marked fibre instead of black fibre

Sl No.	1	2	3	4
Micro Module Colour	Bl	Or	Gr	Rd

CABLE & FIBRE CHARACTERISTICS

Breaking Load	<2000 N		IEC-60794-1-21-E1
Crush Resistance	950 N @< 0.6% fibre strain		IEC-60794-1-21-E1
Water Penetration Test	1m water head, 3m sample, 24 hours		IEC-60794-1-22-F5
Crush Resistance	2000 N		IEC-60794-1-21-E11
Minimum Bend Radius	70mm		IEC-60794-1-21-E11
Voltage Test	11 Kv	If installed along a power line minimum vertical distance of 1.8 M should be maintained	
Resistance to wind/ice	Cable shall withstand 97 kph wind, no ice. 80 kph wind + 5mm ice. 0 kph wind, + 10mm ice. without appreciable sag		
Environmental Performance	Installation	- 10 °C to +60°C	IEC-60794-1-22-F1
	Operation	- 20 °C to +85°C	
	Storage	- 20 °C to +85°C	

Span	68m (85m in exceptional circumstances)
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Fibre Type	G.657A1 (200 µm)	
Attenuation	1310 nm	≤ 0.35 dB/km (max.)
	1550 nm	≤ 0.21 dB/km (max.)
	1625 nm	≤ 0.23 dB/km (max.)
Chromatic Dispersion	1285 – 1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18.0 ps/nm.km
	1565 – 1625 nm	≤ 22.0 ps/nm.km
Zero Dispersion Wavelength	1300 – 1324 nm	
Zero Dispersion Slope	≤ 0.090ps/nm ² x km	
Polarization mode dispersion	Fibre	≤ 0.1 ps / km
	Link Design Value	≤ 0.06ps / km
Cable cut off wavelength λ _{cc}	≤ 1260 nm	
Proof Stress Level	≥(100 kpsi) 1.0 % strain	
	Geometrical	
Cable cut off wavelength λ _{cc}	≤ 1250 nm	
MFD	1310 nm	8.8 ± 0.4 µm
	1550 nm	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	190 ± 10 µm (uncoloured) 200 ± 10 µm (coloured)	
Fibre Curl	Radius	≥ 4 m

Cable Length

2.0 km ± 5 %

Packaging

Wooden drums or reels

Cable end sealed

Drum marking: Drum number, 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.