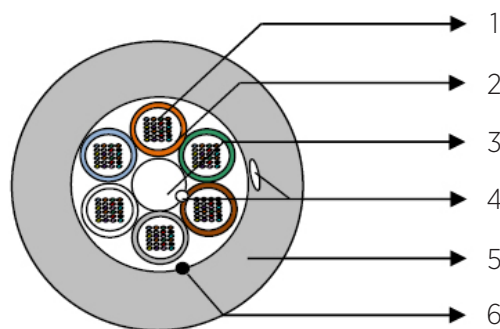


Singlemode Outdoor Microduct 144f Cable

Features & Benefits

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

Diagram



- | | |
|----------------------------|-------------------------|
| 1. Fibre | 4. Water Swellable Yarn |
| 2. Loose Tube (Gel Filled) | 5. Outer Sheath |
| 3. FRP Rod | 6. Ripcord |

Cable Construction	
Parameter	Structure/Layout
Fibre Count	144F
Number of Fibres per Tube	24
Number of loose tubes - PBT	6
Moisture Barrier	(FRP+Core) - Water Swellable Yarn
Outer Sheath	HDPE - Black
Ripcords	1 - Polyester
Cable Diameter	6.4 ± 0.3 mm
Cable Weight	40 ± 10 kg/km

Colour Coding													
Fibre Colour EIA/TIA - 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq	
	Bl	Or	Gr	Br	Sl	Wh	Rd	Nt	Yl	Vi	Pk	Aq	

Tube Colour EIA/TIA - 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq
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Mechanical Characteristics		
Tensile Strength	800N	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 Bending Radius	20xD	IEC 60794-1-21-E11

Singlemode Outdoor Microduct 144f Cable

Environmental Performance		
Installation	-5°C to +50°C	IEC 60794-1-22-F1
Operation	-20°C to +60°C	
Storage	-20°C to +70°C	

Fibre Characteristics		G657A1		
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 Wavelength	≤ 1260 nm			
Bending induced attenuation	1 turn	ø 20 mm	1550 nm	≤ 0.75 dB
			1625 nm	≤ 1.50 dB
	10 turns	ø 30 mm	1550 nm	≤ 0.25 dB
			1625 nm	≤ 1.00 dB
Mode Field Diameter	1310 nm	9.1 ± 0.3 μm		
	1550 nm	10.3 ± 0.5 μm		
Core - Cladding Concentricity Error	≤ 0.5 μm			
Cladding Diameter	125 ± 0.7 μm			
Cladding Non-Circularity	≤ 0.8%			
Primary Coating Diameter	242 ± 5 μm (coloured)			

Printing Details	
Cable printing details	Singlemode Outdoor Microduct 144F (6x24) PE Sheath, OD 6.4mm ± 0.3 mm, Tensile Strength 500N, HFCL-SMFG.657.A1 200um

Cable length 4km ± 5%

IEC 60793, ANSI/ICEA S-87-640, Telecordia GR-20, ITU-T, RoHS, REACH

Ordering Information	
Product Description	Part Number
Connectix Singlemode Outdoor Microduct 144F (6x24) PE Sheath, OD 6.4mm ± 0.3 mm, Tensile Strength 500N, HFCL-SMFG.657.A1 200um	002-005-022-321