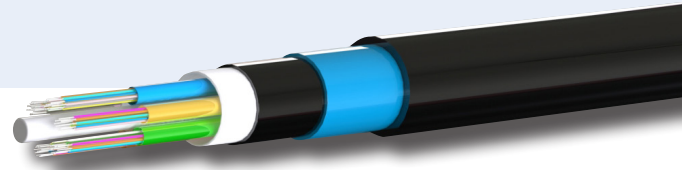


# Sacrificial Sheath Loose Tube Cable 6-144f



FOS sacrificial sheath dielectric loose tube fibre cable is suited to external underground installations in ducts by pulling, jetting or floating techniques or by direct burial in open-cut trenches.

Sacrificial sheath loose tube cable offers all the benefits of our standard nylon jacket loose tube, with the addition of a tertiary polyethelene jacket. This extra coating offers extra UV and impact protection to the termite resistant nylon jacket and limits any potential significant non-superficial damage to the cable.

FOS sacrificial sheath loose tube cable is available in OM1, OM3, OM4 and Singlemode.<sup>1</sup>

## Applications

- Underground ducts
- Direct buried fibre links
- Inter-building links
- Campus fibre networks
- Infrastructure and industrial fibre links
- Termite or insect prone areas

## Features & Benefits

- Bonded triple jacketed construction - excellent resistance to termites and external damage
- UV stabilised polyethelene inner and outer jacket for long life in a wide range of installations
- Insect resistant intermediate nylon layer with physical protection of the added outer layer
- Water swellable yarns provide protection against water ingress (dry core construction)
- Non-metallic construction
- Fibreglass reinforced polymer central strength member and glass yarn peripheral strength member provide excellent strength
- Single layer SZ stranding limits stress on fibre tubes
- Fibre friendly thixotropic gel in tubes ensures fibre protection
- TIA 598 standard colour code
- 12 fibre tube construction<sup>2</sup>
- 6 to 144 fibres

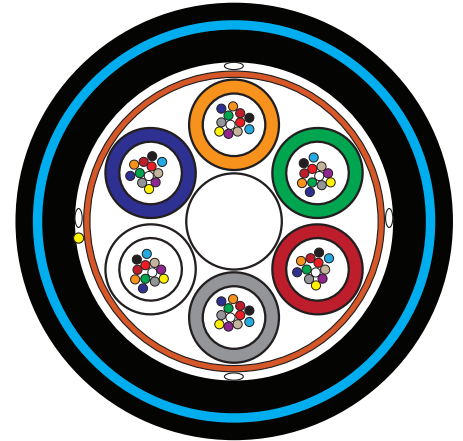
<sup>1</sup>G652.D Standard, G655, G656, G657 available  
<sup>2</sup>Excludes 6f cable

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For further information:  
[www.fibreoptic.com.au](http://www.fibreoptic.com.au)  
+61 3 9757 3000

## Fibre Performance

Fibre type	OM1	OM3	OM4	OS1/2 (G652.D)
Attenuation at 850nm (db/km)	≤3.1	≤3.0	≤3.0	n/a
Attenuation at 1300/1310nm (db/km)	≤1.0	≤1.0	≤1.0	≤0.35
Attenuation at 1550nm (db/km)	n/a	n/a	n/a	≤0.21
Attenuation at 1625nm (db/km)	n/a	n/a	n/a	<0.24
Bandwidth at 850nm [1300nm] (MHz.km)	≥200 [≥500]	≥1500 [≥500]	≥3500 [≥500]	n/a



## Technical Specifications

Temperature range	Operating: -30 to +70 °C Storage: -30 to +70 °C Install: -10 to +50 °C	(IEC 60794-1-2-F1)
Cable bend radius	20 x cable diameter	(IEC 60794-1-2-E11A)
Repeated bending	30 cycles: radius 20 X cable diameter, 10 Kg Load	(IEC 60794-1-2-E6)
Max tensile force	2000 N	(IEC 60794-1-2-E1)
Torsion resistance	10 Cycles (± 360°) 10 kg weight, 2m length	(IEC 60794-1-2-E7)
Crush resistance	2000 N / 100mm, 60 seconds	(IEC 60794-1-2-E3)
Impact resistance	500mm height, 3kg weight, 3 impacts	(IEC 60794-1-2-E4)
Kink resistance	10 x cable diameter	(IEC 60794-1-2-E10)
Water penetration	1m head, 3m cable, 24 hours	(IEC 60794-1-2-F5B)

Change in attenuation after testing shall be <0.1dB

## Cable Characteristics

Fibre Count	6 - 72	96	144
Nominal diameter (mm)	11.5	12.5	15.0
Nominal weight (kg/km)	95	120	175
Minimum bend radius (cm)	23.0	25.0	30.0

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