

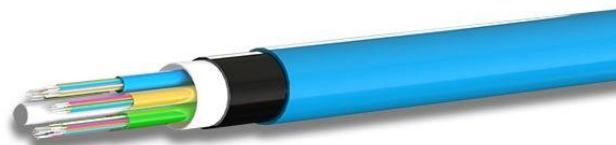
Nylon Jacket Loose Tube Cable 6-144f



OSA nylon jacket 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.

Loose tube cable offers a cost-effective and rugged solution for medium and long distance external fibre runs.

OSA nylon jacket loose tube cable is available in OM1, OM3, OM4 and Singlemode.¹

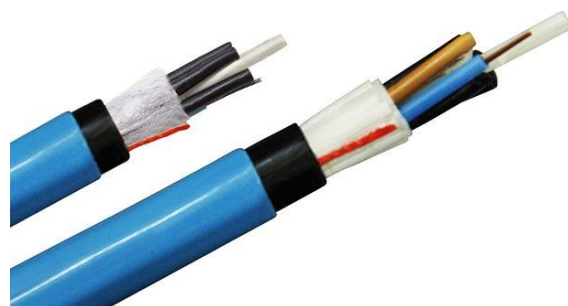


KEY FEATURES

- Bonded double jacketed construction
- Insect resistant nylon outer and UV stabilised polyethylene inner jacket for long life in a wide range of installations
- 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
- Flexible buffer tubes provide easy handling within termination enclosures
- 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 construction²
- 6 to 144 fibres

Applications

- Underground ducts
- Direct buried fibre links
- Inter-building links
- Campus fibre networks
- Infrastructure and industrial fibre links



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 (°C)	Operating: -30 to +70 Storage: -30 to +70 Install: -10 to +50	(IEC 60794-1-2-F1)
Cable bend radius	Install: 20 x cable diameter Operation: 15 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 (N)	Install: 2000 Operation: 1000	(IEC 60794-1-2-E1)
Torsion resistance	10 Cycles (± 360°) 10 kg weight, 2m length	(IEC 60794-1-2-E7)
Crush resistance (N/100mm)	2000	(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)	9.6	10.7	16.0
Nominal weight (kg/km)	70	100	145
Minimum bend radius installation (cm)	19.2	21.4	32.0
Min. bend radius long term (cm)	14.4	16.1	24.0

NSW - Silverwater

Unit 4, 52 Holker Street
Silverwater NSW 2128

E: sales@opticalsolutions.com.au

P: +61 2 9395 1400

F: +61 2 9647 0014

NSW - Sydney City

Unit 10, 10 Bradford Street
Alexandria NSW 2015

E: sydcity@opticalsolutions.com.au

P: +61 2 9304 4555

F: +61 2 9700 8055

VIC

Unit 3 / 1 Rocklea Drive
Port Melbourne VIC 3207

E: vicsales@opticalsolutions.com.au

P: +61 3 9646 4166

F: +61 3 9646 4155

QLD

Unit 2/ 40 Borthwick Ave
Murarrie QLD 4172

E: qldsals@opticalsolutions.com.au

P: +61 7 3399 5280

F: +61 7 3399 9805

ACT

22 Isa Street
Fyshwick ACT 2609

E: actsales@opticalsolutions.com.au

P: +61 2 6162 4600

F: +61 2 6162 4605

WA

28a Teddington Rd
Burswood WA 6100

E: wasales@opticalsolutions.com.au

P: +61 8 9361 7000

F: +61 8 9361 7011