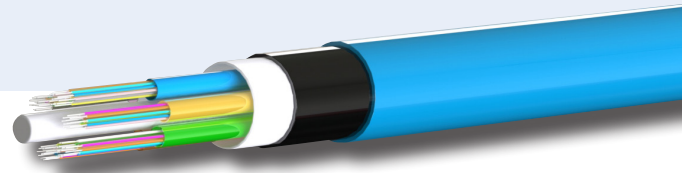


Nylon Jacket Loose Tube Cable 6-144f



FOS 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.

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

Applications

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



Features & Benefits

- Bonded double jacketed construction
- Insect resistant nylon outer and UV stabilised polyethelene 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

¹G652.D Standard, G655, G656, G657 available

²Excludes 6f cable

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 |

Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:
www.fibreoptic.com.au
 +61 3 9757 3000

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