# Pre-Terminated External Drop Cable Reel

The Pre-Terminated External Drop Cable Reel offers a versatile and reliable solution for outdoor fibre optic installations. Designed for both aerial and underground deployment, these drop cables are available in single or dual sheath configurations, ensuring durability in various environmental conditions.

The cable is pre-terminated for easy installation and comes on 100% recyclable cardboard reels, supporting sustainable practices. Available in 2-fibre configuration, the cables are supplied on drums or cut to your required length for maximum flexibility.

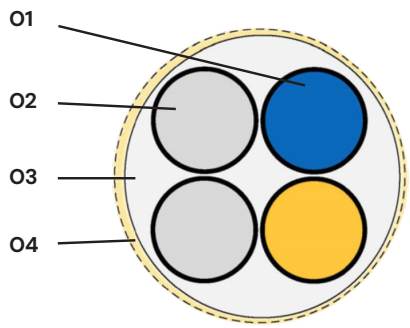
Manufactured with high-quality ITU-T Singlemode fibre grades, these cables provide exceptional performance, making them ideal for telecom networks, FTTH, and other fibre connectivity applications.

## Features & Benefits

- Range of drop cables suitable for external use
- Aerial and underground
- Options for single and dual sheath
- Cable on drums, cut to length options
- Pre-terminated on 100% recyclable cardboard reels
- ITU-T Singlemode fibre grades
- Reel dimensions: 235 x 200 x 60mm


| Product Specifications | | |
|---|---|---|
| Outer Diameter (Nominal) (mm) | | 1.1 |
| Mass (Nominal) (mm) | | 1.0 |
| Min Bend Radius (mm) | | 50 |
| Fibre type | | Singlemode compliant with G657A.1 |
| Temperatures | Storage | -20˚C to +70˚C |
| | Installation | -10˚C to +50˚C |
| | Lifetime | -20˚C to +60˚C |
| Attenuation at 20˚C (dB/km) | | 0.40dB/km max at 1310nm to 1625nm |
| | | 0.30dB/km max at 1550nm |
| | | 0.34dB/km max at 1383nm waterpeak |
| PMDQ (M= 20, Q=0.01%) | | ≤0.2 ps / 0.5 (km) |
| Macrobending Performance (Individual stripped out fibres) | | 50mm radius (100 turns) ≤0.1dB at 1550nm and 1625nm<br>≤0.5dB at 1550nm and 1625nm |

**Cable Construction**




| | |
|---|---|
| **O1** | Optical Fibre |
| **O2** | Filler (Mechanical Fibre) |
| **O3** | Encapsulation |
| **O4** | Low Friction Sheath |

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| Mechanical Performance (All optical measurements at 1550nm) | | | |
|---|---|---|---|
| Test | Test Method | Test Parameters | Product Specification |
| Tensile Performance | EN 187000 A1/ 501 IEC60 794-12-E1 | Load is 1km mass (1W) Duration 10 min | Fibre strain ≤0.4% at max. force Attenuation increment ≤0.05dB and fibre strain ≤0.05% after test. Given tensile performance above, product lifetime loading as per industry best practice. |
| Tensile Service Load | | Maximum W/3 Duration of product lifetime | |
| Flexing | IEC 60794-1-2-E11A Change @ 1550nm | Diam 40mm x 3 turns 5 cycles at 20˚C | Attenuation ≤0.05dB increment after test |
| Crush I | IEC 60794-1-2-E3 Change @ 1550nm | 100 mm plate, 100N, 1 min, 3 tests at different places | ≤0.05dB increment after test |
| Crush II | IEC 60794-1-2-E3 Change @ 1550nm | 100 mm plate, 500N, 15 min, 3 tests at different places | No fibres broken |

| Environmental Performance (All optical measurements at 1310nm and 1550nm) | | | |
|---|---|---|---|
| Test | Test Method | Test Parameters | Product Specification |
| Water Soak | IEC 60794-5 | 1000 hours in water, 18˚C/22˚C | Test after temp cycle ≤0.07dB/km change during and after test |
| Temperature Cycle | IEC 60794-1-2-F1 (3 cycles) | +20°C, −40°C, +60°C | Attenuation to be ≤0.5dB/km during test ≤0.1dB/km change during and after test |
| Damp Heat Cycle | IEC 60068-2-38 (10 cycles) | 25˚C, 65˚C, 25˚C, 65˚C, 25˚C, -10˚C, 25˚C | Attenuation to be ≤0.5dB/km during test ≤0.1dB/km change during and after test |

| Ordering Information | |
|---|---|
| Product Description | Part Number |
| Pre-Terminated External Drop Cable Reel | FFFL-2F-SCAPC-100 |