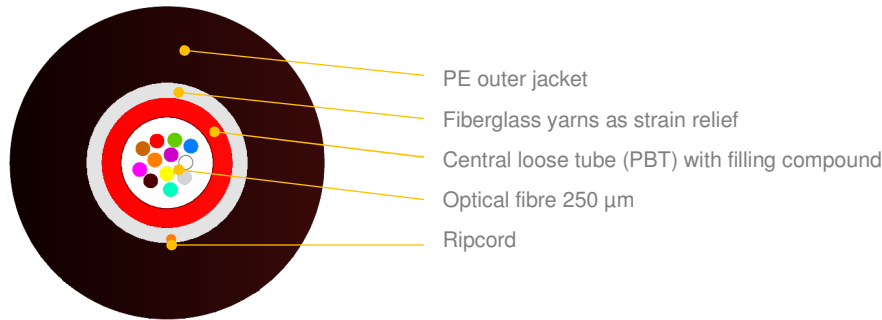


## Single Jacket PE Central Loose Tube Cable with Fiberglass Reinforcement



### APPLICATION:

Fully dielectric cable  
Basic rodent protection  
FTTX networks  
Distribution network  
Outdoor installation

### DESIGN:

Central loose tube (PBT) with thixotropic filling compound  
Optical fibres  
Fiberglass as strain relief and water absorbent  
UV stabilized PE sheath  
Polyester ripcord

### DESIGNS:

| Variant  | Quantity [pcs] |                 | Ø nominal<br>(±5%) [mm] | Nominal weight PE<br>(±5%)<br>[kg/km] |
|----------|----------------|-----------------|-------------------------|---------------------------------------|
|          | Fibres         | Fibres per tube |                         |                                       |
| 1T x 2F  | 2              | 2               | 5,9                     | 37                                    |
| 1T x 4F  | 4              | 4               | 5,9                     | 37                                    |
| 1T x 6F  | 6              | 6               | 5,9                     | 37                                    |
| 1T x 8F  | 8              | 8               | 5,9                     | 37                                    |
| 1T x 12F | 12             | 12              | 5,9                     | 38                                    |
| 1T x 16F | 16             | 16              | 5,9                     | 38                                    |
| 1T x 18F | 18             | 18              | 5,9                     | 38                                    |
| 1T x 24F | 24             | 24              | 5,9                     | 40                                    |

\*Other fibre counts available on demand

### TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

| Test                        | Specification       | Method  | Requirements  |
|-----------------------------|---------------------|---|---|
| Max tensile load short term | IEC 60794-1-21-E1   | Extended load: 1500 N                               | $\Delta\alpha \leq 0,05$ dB @ 1550nm (after test)<br>No significant damage to fibre unit                |
| Max tensile load long term  | IEC 60794-1-21-E1   | Sustained load: 500 N                               | $\Delta\alpha \leq 0,05$ dB @ 1550nm (after test)<br>No significant damage to fibre unit                |
| Crush performance           | IEC 60794-1-21-E3   | 1500 [N/10 cm]                                      | $\Delta\alpha \leq 0,1$ dB @ 1550nm<br>(during and after test)<br>No jacket cracking and fibre breakage |
| Bending performance         | IEC 60794-1-21-E11  | 10 cycles (15x D)                                   | $\Delta\alpha \leq 0,05$ dB @ 1550nm (after test)<br>No jacket cracking and fibre breakage              |
| Water penetration           | IEC 60794-1-22-F5   | Water head: 1m<br>Sample length: 3m<br>Time: 24 hrs | No leakage  |
| Temperature range           | Installation        | -5... +55 [°C]                                      | $\Delta\alpha \leq 0,05$ dB   |
|                             | Operation           | -20... +70 [°C]                                     |   |
|                             | Transport & Storage | -20... +70 [°C]                                     |   |

### OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and modules identification information please see **DSH\_Colors\_CODE\_XXXX** document.

### FIBRE PARAMETERS

For selected post-production optical fibres parameters please see **DSH\_OFFP** document.

|               |            |          |
|---------------|------------|----------|
| Type:         | EXO G0 PE  | REV: 1.4 |
| Construction: | 04/12/2017 | AM       |
| Modified:     | 21/01/2021 | KP       |

## MARKING

The following print (inkjet / laser printing) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID / Drum No

Example: FIBRAIN EXO-G0 PE 12F SM G652D 1T12F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is  $\pm 0.5\%$ . Remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

## PACKAGING

Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

## DELIVERY LENGTH

2000 – 8000 meters  $\pm 5\%$ , with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed

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