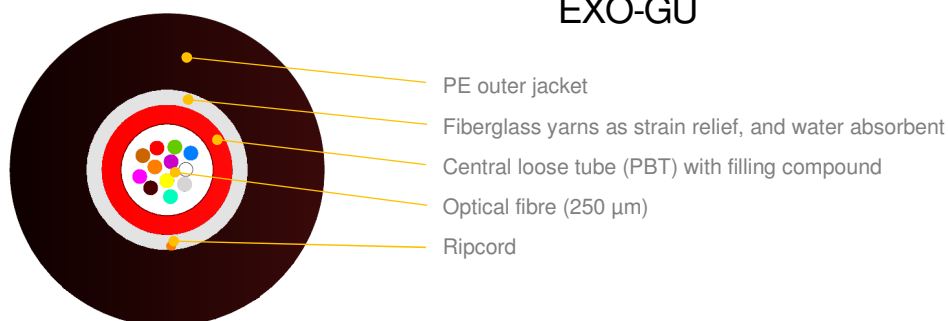


Single Jacket PE Central Loose Tube Cable with Fiberglass Reinforcement EXO-GU



*schematic drawing, not to scale

APPLICATION

Outdoor use
Fully dielectric
Basic rodent protection
FTTX networks
Distribution network

DESIGN

Highly resistant, UV stabilized HDPE outer sheath
Central loose tube (PBT) with thixotropic filling compound
Fiberglass as a strain relief and water absorbent
Optical fibres
Polyester ripcord

CONFIGURATION

Version	Quantity [pcs]		Ø nominal (±5%) [mm]	Nominal weight (±5%) [kg/km]	Max allowed tension [N] / ε≤0,6%	Max static tension [N] / ε≤0,2%
	Fibres	Fibres per tube				
1T x 2F	2	2	5,8	30	1800	400
1T x 4F	4	4	5,8	30		
1T x 6F	6	6	5,8	30		
1T x 8F	8	8	5,8	30		
1T x 12F	12	12	5,8	31		
1T x 16F	16	16	5,8	31		
1T x 18F	18	18	5,8	31		
1T x 24F	24	24	5,8	31		

*Other fibre counts available on demand

TECHNICAL AND ENVIRONMENTAL CABLE CHARACTERISTICS

Test	Standard	Conditions	Requirements
Tensile strength	IEC60794-1-21 Method E1	Short term: 1800N	Fibre strain: ≤0,6%, Δα reversible
		Long term: 400N	Fibre strain: ≤0,2%, Δα≤0,05 dB/km
Crush resistance	IEC60794-1-21 Method E3	Load: 1500 N / 10 cm / 5 minutes	Δα ≤ 0.1dB No jacket cracking and fibre breakage
Torsion	IEC60794-1-21 Method E7	Cable length to be twisted: 2m No. of cycles: 5 Twist angle: starting position to -180° to starting position to +180°, and back (360° total) Load: 100N	Δα≤0.1dB No jacket cracking and fibre breakage
Bending	IEC 60794-1-21-E11	Radius: 15 x OD	Δα≤0.1dB No jacket cracking and fibre breakage
Water penetration	IEC 60794-1-22 Method F5A, F5B	Water head: 1m Sample length: 3m Time: 24 hrs	No water leakage
Temperature range	IEC60794-1-22 Method F1	Installation: -5... +55 [°C]	Δα≤0,1 dB/km
		Operation: -20... +70 [°C]	
		Transport & Storage: -20... +70 [°C]	

(*) values for single-mode fibres, all optical measurements performed at 1550nm

OPTICAL FIBRE AND LOOSE TUBE 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_OFP** document.

Type:	EXO GU PE	REV: 1.3
Issued:	16/07/2018	AM
Modified:	03/01/2022	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-GU PE 12F SM G657A1 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.

PACKING

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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