GU-5 Optical Closure

GU-5 fibre closure developed by Optotec is a high versatile, re-enterable IP 68 optical enclosure engineered for loose buffer tube, slotted core or ribbon fibre cable installation. It provides an airtight, watertight system that protects, stores, routes and organizes fibres in any environment.
In particular the closure has been submitted to the tests for approval by the Italian Post Office (PTT).

Optotec GU5 fibre closure can easily accommodate butt splice applications as well as in-line configurations.
The closure can accommodate up to 6 cables ingoing and/or outgoing cables and max. 5 splice organisers each of which protects, secures, and organizes up to 12 or 24 fibre splices.
A maximum of 3 cable entries for each side is available.

The special calibrated (available with different diameters) silicon gaskets, which can be used as many times as necessary, provide the cable sealing and largely simplifying maintenance operations.
Excellent sealing performances are achieved without use of flames, air heaters or gels and mastic for a cleaner execution.

Optotec GU-5 has been designed for flexible use in a wide range of optical installations in both long distance and distribution network.

Key Features and Benefits

- Optotec high quality materials and long experience inside
- Butt type or In-line type configuration available
- Medium/low fibre count cables in compact design

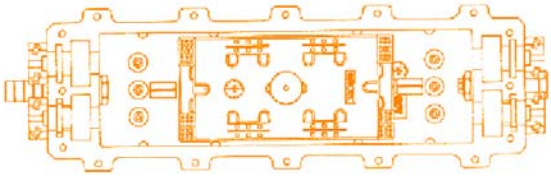
Applications

- Outside plant interconnecting, branching and distribution cables splices
- Up-gradable access networks
- Medium/Low capacity cables

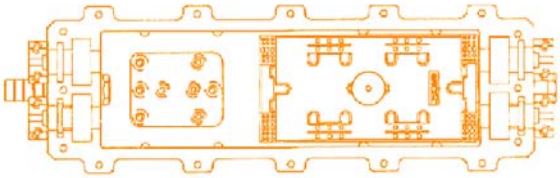
GU-5 Optical Closure

Description

Parameter	Unit	Performance
Closure features		IP 68 Protection
Overall dimensions	mm	555(w) 169(h) 128(d)
Weight	kg	7
Max cable entries		10 per side (two side)
Max fibres splices		144
External cable diameter	mm	40 (two cables) 6-19 (eight cables)



IL	In-Line style



TO	Tap-off Butt style

Additional features

The closure is provided with a valve for testing pressure and closing. Upon request it is possible to apply a grounding system.

The closure can be opened and closed by acting only on the mechanical fastening systems without additional materials.

By using entries provided with special gaskets with mechanical tightening, it is possible to access the cable fibres without cutting the whole cable on its central strength member.

Anti-moisture systems are planned on the cables to avoid water penetration. They are based on thermoplastic adhesives and heat-shrinking sleeves or on resin casting into plastic sleeves.

The cover is provided with non disposable bolts and with indication on the tightening sequence.

The estimated tightening torque is 0.4Kg*m and must be applied by means of a special dynamometric wrench, supplied upon request.

The plastic fibre organisers are provided with a bottom part and a cover to house fibres and splices (max 24 for each tray).

Using Optotec FIBERCOAT UV recoating splice protection, it is possible to arrange splices along the tray circumference and to leave some space for splitters and wdms housing.

Mechanichal and environmental performances

All tests passed at 70kPa no bubbles	
Immersion in water over pressure	IEC 68-2-17 QF-a
Tightness test (T T)	MAT-016 6.6.5.2
T T after vibration test	MAT-016 6.6.5.10
T T after Thermal cycling	MAT-016 6.6.5.11
T T after Cold Therm. cycling in water	MAT-016 6.6.5.4
T T after Moisture positive cycling	MAT-016 6.6.5.3b
T T after Impact 500gr 1m	MAT-016 6.6.5.4b
T T after Pull out Strenght memb.1000N	MAT-016 6.6.5i

Ordering Informations

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IL	In Line
TO	Tap Off
nnn	Spliceable fibres (1..144)
M	Multi-element trays
N	None
V	With Valve
N	No Valve
G	Pre-Mounted Ground Feed-through
N	No Ground Feed-trough
00	Gasket closed – No cable clamp
nn	Cable diameter (cable 10 to 24mm)

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