

PATENT PENDING

FOSLock – Secure Your Infrastructure

In today's world of smart city, safe city, telecom's networks and more, Fiber optics are frequently used, taking the place of the traditional copper cables.

While cyber-attacks are an everyday challenge, securing sensitive data passing through fiber optics is critical!

Therefore, it is highly important to protect the infrastructure as much as possible.

In the past, software protect system (MNS) and electric sensors were the common way to protect your infrastructure

The reliance of the infrastructure protection in electrical supply, forces us to think out of the box for solution that is powerless based.

Fibernet Present - FOSLock

FOSLock—is a patent pending solution for physical protection on different elements in the infrastructure

- Fiber optic closure protection
- Protection from fiber tapping (MITM)
- Mainhole protection
- Cabinet protection

The protection is being performed by an advanced powerless fiber optic sensor, developed by Fibernet

The powerless sensor is designed to allow an immediate alert on the opening and closing of any element in the infrastructure.

The FOSLock is suitable for harsh environment and is simple to install in different elements of the infrastructure.

The information received from the sensors in real-time is critical to receive the actual status of the different monitored elements in order to respond to the threat effectively.

FOSLock Solution

FOSLock solution offers two methods to secured fiber optic closure:

1. Monitoring Systems Solution

- FMS – Fibernet FMS (Fiber Monitoring System) allow monitoring online sensors deployed in a star configuration or when quantity of fibers in the network are high (each sensor receive a fiber).
- FMS+ –Fibernet FMS+ is a monitoring system OTDR based, allowing to monitor sensors connected in a Series (using one fiber or more)

FOSLock – Fiber Optic Network Protection

2. FOSLock Closure

The FOSLock closure is a secured fiber optic closure developed by Fibernet allowing to monitor in real time the opening and closing of the closure installed all over the network.

The FOSLock closure is a secured fiber optic solution, developed by Fibernet, allowing real time monitoring on opening or closing of the closure.

The FOSLock closure is a Heat shrink closure dedicated for direct buried, duct, pole or wall mount installation.

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Technical Information

| Parameter | 576C | 96C |
|--------------------------|---|---|
| Tray capacity | 8 Trays 72 fibers | 4 Trays 24 fibers |
| Total fibers capacity | 576fibers | 96 fibers |
| Dimension | 710x240x260mm | 540x15x180mm |
| Cable entry and size | 5 round ports with diameter of $\Phi 35\text{m}$ | 4 round ports with diameter of $<\Phi 20\text{m}$ |
| | 1 oval port with size of $\Phi 42\text{mm}\sim\Phi 65\text{mm}$ | 1 oval port with size of $\Phi 40\text{mm}\sim\Phi 60\text{mm}$ |
| Raw material | Dome & base : Modified P.P | Dome & base: Modified P.P |
| | Tray: ABS | Tray: ABS |
| Working temperature | -40 ~ 70°C | -40 ~ 70°C |
| Atmospheric pressure | 70 ~159Kpa | 70~ 159Kpa |
| Axial tension | > 2000N/1min | > 2000N/1min |
| Stretching resistance | 2500N/10 square | 2500N/10 square |
| Insulation resistance | > 2*104M Ω | >2 *104M Ω |
| Voltage strength | 15KV/1min, no recover or | 15KV/1min, no recover or |
| Pressure in the water | 50m/72hours | 50m/72hours |
| Splice tray with optical | $\geq 40\text{mm}$. Low optical loss | $\geq 40\text{mm}$. Low optical loss |

