Introduction

Features and benefits

This cable has been custom designed to best match with customer requirements from optical, electrical, mechanical, quality and cost point of view, optimizing diameter, weight, breaking load and short circuit capacity.

Optical core is made of optical fibers [1] covered by one or more loose buffer tubes [2] that leave the fibers free from strain even at highest operating loads.

In sections where there is a high contamination or in the proximity of the sea, Prysmian recommend greasing the cable.

A Prysmian patented hydrogen absorbent jelly [3] is used to protect optical fibers from hydrogen attack.

The aluminum tube [4] provides the cable with:
- high short circuit capacity minimizing material
- best solution to avoid cable corrosion
- a perfect sealing for the optical core
- a high crush resistance

The wires of...
- aluminum clad steel [5].
- aluminum alloy [6].

...provides the cable with:
- the required strength.
- best solution to avoid cable corrosion.
- the remaining short circuit capacity.

Fibre characteristics

See our technical document reference 4377
Cable characteristics

- Optical unit composed by 1 to 4 tubes.
- Temperature range: -40°C to 80°C
- Lay direction armor: left (S) or right (Z)

### Routine tests

100% of optical fibers will be measured by OTDR technique before leaving factory.

### Installation procedure

Prysmian recommends installing the cable described in this specification following the latest version of our "Installation procedures for OPGW fiber optic cable" reference SIG-07-PE-PA-013, "Instruction for the installation of the EWMJ joint box" reference SIG-07-PE-PA-015 and "Instruction for the installation of the EWJ joint box" reference SIG-07-PE-PA-008.

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