Aluminium extruded tube technology
Optical ground wire

Cable design

- Optical fibres
- Loose buffer tubes
- Prysmian patented hydrogen absorbent jelly
- Aluminium extruded tube
- Aluminium clad steel wires
- Aluminium Alloy wires

Features and advantages

Prysmian Group provide tailor made and complete full OPGW system (fittings, boxes, ODF, installation services)

Extruded Aluminium Core tube
- Good combination of crush and kink resistance
- Core tube can safely and easily be routed to closures without armour
- Easy access to optical core

Superior Corrosion Resistance
- Meets IEEE construction guidelines for use in High Corrosion sites

Superior Electrical Performance
- Aluminium core tube substantially increases conductor cross-section
- Improved short-circuit capacity

Superior Lightning Resistance
- Fewer Aluminium Alloy (AA) wires are needed to meet electrical specs
- More/Heavier duty ACS wires can be used
- AA wires can be completely replaced with ACS in some applications

High performance. Even in High fibre Counts
- All fibres are housed in the core tube
- Core tubes are available in a wide range of Inside Diameters
- Armour wires are not replaced with fibre tubes in high count designs
- Electrical and mechanical properties can be maintained.

Technical data

- Single buffer tube Taylor made designs up to 48 optical fibres under request.
- Multiple buffer tubes Taylor made designs up to 288 optical fibres under request.
- Single or double armour layers.
- Optical unit composed by 1 to 8 tubes.
- Temperature range: -60°C to +85°C.
- Lay direction armour: left (S) or right (Z).

International standards


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