



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 taylor 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

IEEE 1138; IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652; ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec. G.657

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