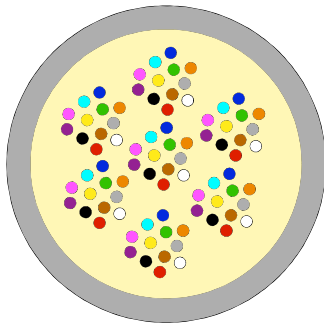


## Stainless Steel Unitube

### Cable Design

### Fibre In Metal Tube



- not to scale -

- **Steel Tube:** The secondary coating consists of a stainless-steel tape that is folded to a hermetically sealed stainless steel tube (ST). A longitudinal laser welding process does the sealing of the tube. The tube is filled with water repellent filling compound. (Standard steel grades: AISI 304 or 316L).
- **Fibres:** Each fibre is uniquely identified by a fibre colour, for fibre counts above 12 fibres a coloured yarn is applied or ring marked fibres are used.

The Stainless Steel Tubes (SST) can be applied in several market segments / cable constructions :

- Aerial optical cables like OPGW (Optical Ground Wire), OPPC (Optical Phase Conductor)
- Units integrated in hybrid cable constructions for DTS systems
- Underground optical cables – uni-tube constructions - for direct buried, duct and indoor installations
- Submarine optical cables
- Mobile deployable optical cables.

### Technical data

No. of Fibres		1 – 96
Stainless steel tube - Ø	mm	1.17 – 5.1
Steel thickness	mm	0.10 / 0.15 / 0.20 / 0.25 / 0.30

Min. bending radius	mm	Without Tension 25 x Cable-Ø			
Temperature range	°C	Installation -10 to +50	Transport. & Storage -30 to +80	Operation -30 to +80	Short Term +180*
Fibre Excess Length	%	> 0.05% - 0.75% depending on design and application			

(\*) Short term maximum temperature is for non-frequent exposure during a few seconds. In case of long-term high-temperature or frequent exposures to high-temperatures accelerated aging to fibre and jelly filling will occur.

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