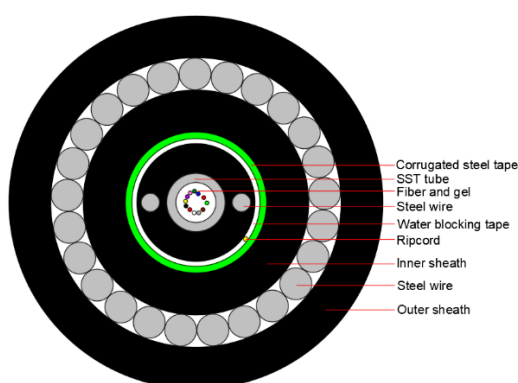


12 Core Fire Resistance Fibre Optic Cable, SST Tube with CST & SWA Armor, Double FR-LSOH Jacket

Cable Design

IEC/EN 60794-3-10



- **Strength member:** Dual steel wire
- **Tube:** Stainless steel tube, containing up to 2 to 48 optical fibres and filled with a suitable water tightness compound.
- **Longitudinal Water Tightness:** Water Blocking Tape
- **Inner Jacket:** FR-LSOH black color with UV resistant
- **Armour:** Corrugated steel tape
- **Enhanced Protection: Steel Wire Armor**
- **Outer Sheaths:** FR-LSOH black color with UV resistant
- **Suitable for critical system installation in heavy industrial applications under harsh environments.**

- not to scale -

Technical data

No. of Fibres		12		
Design (Elements × Fibres per Tube)		Stainless Steel Uni Tube		
Loose Tube / Filler - Ø	mm	3.6 with jelly filled		
Strength Member		Dual Steel Wire		
Inner sheaths thickness Nom.	mm	2.3		
Outer sheath thickness Nom.	mm	2.3		
Strength Member Size	mm	0.6 *2		
Cable diameter Nom.	mm	22.1		
Cable Weight (±20%)	kg / km	1040		
Min. bending radius	mm	Without Tension		Under Maximum Tension
		15 × Cable-Ø		30 × Cable-Ø
Temperature range	°C	Installation	Transport. & Storage	Operation
		-10 -> +60;	-40 -> +70 ;	-40 -> +70
Flame Retardant & LSOH		IEC 60332-1, IEC 60332-3-24, IEC 61034, IEC 60754-1 & 2. ASTM D-2863		
Fire Resistance		IEC60331-25, BS6387 CWZ		

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

Test	Standard	Value	Sanction*
Max. installation tension	IEC 60794-1-2-E1	4000N	fibre strain ≤ 0.5%, Δα reversible
Crush(short term)	IEC 60794-1-2-E3	2000 N / 100mm	Δα ≤ 0.3 dB(MM), 0.33 dB(SM)@1550 nm
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	Loss change <0.1 dB @1550 nm
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 hour

* values for single-mode fibres, all optical measurements performed at 1550 nm.

* values for multi-mode fibres, all optical measurements performed at 1300 nm

Optical Characteristics

See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

No ring of fiber

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
												

Sheath Colour:

The outer sheath is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

**HERMESYS CHIIMERAX FIBRE OPTICS CABLE SS TUBE SWA ARMOR DOUBLE FR-LSOH
JACKET<P/N> <YEAR> < Fibre cores x fibre type> (xxxx) M**

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 2 km with a tolerance of $\pm 5\%$.