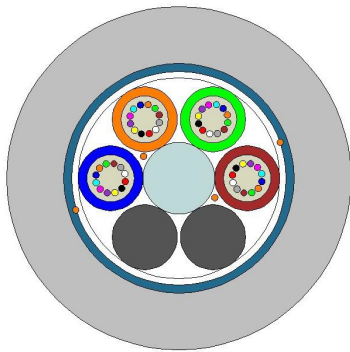


12F 24F 36F 48F 72F 96F 144F Armored Outdoor Cable

Cable Design

IEC/EN 60794-3-10



- ✓ **Central strength member (CSM):** glass fibre reinforced plastic rod
- ✓ (FRP) with coating when needed.
- ✓ **Tube:** thermoplastic material, containing 12 optical fibres and filled with a suitable water tightness compound.
- ✓ **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- ✓ **Core wrapping:** water swellable tape (dry core).
- ✓ **Armour:** corrugated steel tape. 2 ripcords beneath.
- ✓ **Outer Sheath:** HDPE.

Technical data

No. of Fibres		12, 24	36, 48, 72	96	144
Design (Elements × Fibres per Tube)		6×6	6×12	8×12	12×12
Loose Tube / Filler - Ø	mm	2.1	2.1	2.1	2.1
CSM/sheath diameter	mm	2.3	2.3	2.3/3.7	2.3/6.5
Outer sheath thickness	mm	1.6	1.6	1.6	1.6
Cable Diameter	mm	11.5	11.5	12.9	15.7
Cable Weight	kg / km	127	127	152	201
Min. bending radius	mm	Without Tension 10 × Cable-Ø		Under Maximum Tension 20 × Cable-Ø	
Temperature range	°C	Installation -10 -> +60;		Transport. & Storage -40 -> +70 ;	Operation -40 -> +70

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

Main characteristics

Test	Standard	Value	Sanction*
Max. Installation Tension	IEC 60794-1-21-E1	2700N	fibre strain ≤ 0.33%, Da reversible
Crush	IEC 60794-1-21-E3	2200N / 100mm	$\Delta\alpha \leq 0.1$ dB, cable integrity
Temperature Cycling	IEC 60794-1-22-F1	-40 -> +70°C	$\Delta\alpha \leq 0.05$ dB/km
Water Penetration	IEC 60794-1-22-F5C	sample=3m, water=1m	No water leakage after 24 hour

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

Optical Characteristics

See the attached cabled optical fibre data sheet.