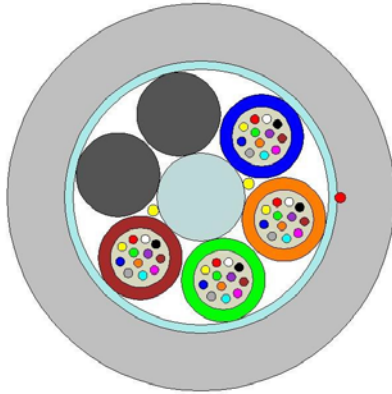


12F 24F 36F 48F 72F 96F 144F Normal Outdoor cable

Cable Design

IEC/EN 60794-3-20



- ✓ **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE 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-blocking tape & yarns (dry core).
- ✓ **Outer Sheath:** HDPE. 1 ripcord beneath.

Technical data

No. of Fibres		12, 24	36, 48, 72	96	144
Design (Elements x Fibers /Tube)		6x6	6x12	8x12	12x12
Loose Tube / Filler - Ø	mm	2.1	2.2	2.2	2.1
CSM/sheath diameter	mm	2.3	2.5	2.7/3.9	2.3/6.5
Outer sheath thickness	mm	1.6	1.6	1.6	1.6
Cable normal Diameter	mm	10.0	10.4	11.8	14.2
Cable Weight	kg /	85	90	102	143
Min. bending radius	mm	Without Tension 10 x Cable-Ø		Under Maximum Tension 20 x 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 60794-1-2-E1	2000 N	fibre strain ≤ 0.33%, Da reversible
Crush	IEC 60794-1-2-E3	1000 N / 100mm	$\Delta\alpha \leq 0.1$ dB
Temperature range	IEC 60794-1-2-F1	-40 -> +70°C	$\Delta\alpha \leq 0.1$ dB/km
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

Optical Characteristics

See the attached cabled optical fibre data sheet.