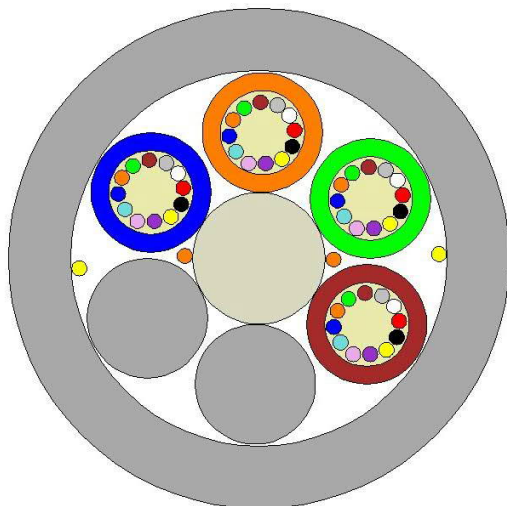


2, 6, 12, 24, 48, 72, 96, 144, 288F Mini Cable

Cable Design

IEC/EN 60794-3-10



- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE coating when needed.
- **Tube:** thermoplastic material, containing up to 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.
- **Longitudinal Water Tightness:** WB yarn (dry core).
- **Strength members:** Under the outer sheath 2 yellow aramid yarns are applied, serving as ripcord and as strengthening yarns.
- **Outer Sheath:** HDPE.

Technical data

No. of Fibres		2, 6, 12, 24, 48, 72	96	144
Design (Element×Fibre per tube)		6×12	8×12	12×12
Loose Tube / Filler – Ø	mm	1.55	1.55	1.55
CSM/sheath diameter	mm	1.6	2.6	2.6/4.6
Outer sheath thickness	mm	0.5	0.5	0.5
Cable Diameter	mm	5.7	6.7	8.7
Cable Weight	kg / km	27	41	71

Main characteristics

Test	Test Standard	Specified Value	Acceptance Criteria*
Installation Tension	IEC 60794-1-2-E1	700N	$\Delta\alpha$ reversible
Crush	IEC 60794-1-2-E3	500N/100mm	$\Delta\alpha \leq 0.05$ dB, after test, no damage
Impact	IEC 60794-1-2-E4	1 Nm, R=300mm, 3 impacts	$\Delta\alpha \leq 0.05$ dB, after test, no damage
Torsion	IEC 60794-1-2-E7	$\pm 180^\circ$, L=1m, 10 cycles	No damage
Kink	IEC 60794-1-2-E10	Min diameter=10 cable Ø	No damage
Repeated Bending	IEC 60794-1-2-E6	R= 15x cable Ø 100 cycles, 20N	No damage
Cable Bend	IEC 60794-1-2-E11	R= 15x cable Ø, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-2-F1	-30°C to +60°C -40°C to +70°C	$\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.15$ 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.

Min. bending radius	mm	Without Tension 10 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø	
Temperature range	°C	Installation -10 -> +50;	Transport. & Storage -40 -> +70 ;	Operation -40 -> +70	

Identification

Fibre Colours

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

Buffer Tube Colours

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

Fillers are black

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals in white ink-jet as follows:

PRYSMIAN Year <fiber number & type> MINI CABLE XXXXM

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4 km with a tolerance of $\pm 5\%$

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