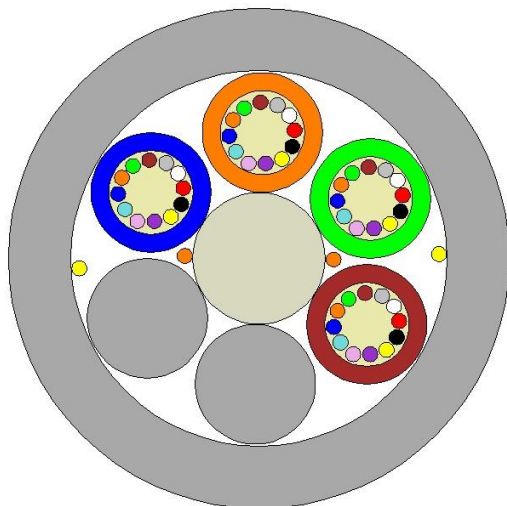


12, 24, 36, 48, 72, 96, 144F Mini Cable

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 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		12, 24, 36, 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 -30 -> +70 ; Operation -30 -> +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

Tube No.	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour	blue	orange	green	brown	grey	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 $\pm 5\%$

© PrysmianGroup 2019, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of PrysmianGroup. The information is believed to be correct at the time of issue. PrysmianGroup reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by PrysmianGroup.