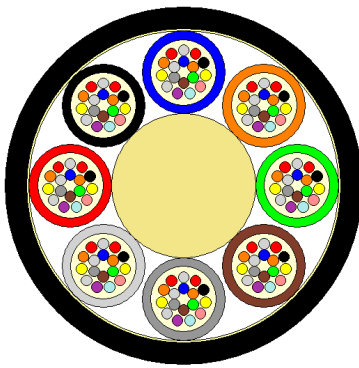


Mini optical cable for microduct installation with G.657.A2 200 µm BendBright™ fibre (outdoor)

Cable Design

IEC/EN 60794



- not to scale -

- **Central Strength Member (CSM):** glass fibre reinforced plastic rod (FRP).
- **Loose Tube:** thermoplastic material, containing optical fibres and filled with a suitable water tightness compound.
- **Filler elements:** thermoplastic rods.
- **Stranding:** loose tubes (and fillers), SZ stranded around the CSM.
- **Longitudinal Water Tightness:** dry core with water swellable elements.
- **Outer Sheath:** HDPE, one ripcord beneath.

Technical data

No. of Fibres		216	240	288
No. of tubes x no. fibres/tube		6 x 36	6x36 + 1x24	8 x 36
Cable Diameter	mm	6.9	8.1	
Cable Weight	kg / km	40	55	
Minimum Bending Radius	mm	Without Tension 15 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø
Temperature Range	°C	Installation -10 to +50	Transport & Storage -30 to +60	Operation -30 to +60

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

Main characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	1000 N	$\Delta\alpha$ reversible, fibre strain $\leq 0.5\%$
Crush	IEC 60794-1-2-E3	1000 N / 100 mm, max. 10 min	$\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	5 J, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB after the test
Repeated Bending	IEC 60794-1-2-E6	R=10 x D, 100 N, 30 cycles	no damage
Temperature Cycling	IEC 60794-1-2-F1	-30°C to +60°C	$\Delta\alpha \leq 0.1$ dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3 m, water column=1 m	no water leakage in 24 h






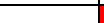






All optical measurements at 1550 nm.






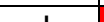






Optical Characteristics






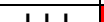






See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

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
												

No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	blue	orange	green	brown	grey	white	red	white	yellow	violet	pink	aqua
												

No.	25	26	27	28	29	30	31	32	33	34	35	36
Colour	blue	orange	green	brown	grey	white	red	white	yellow	violet	pink	aqua
												

Buffer Tube Colours

No.	1	2	3	4	5	6	7	8
Colour	blue	orange	green	brown	grey	white	red	black
								

Filler Elements Colours:

All filler elements are uncoloured (natural).

Sheath Colour

The outer sheath colour is black.

Sheath Marking

The outer sheath is marked as follows:

<Customer name> <Manufacturer> <year of manufacture> <no. and type of fibres>
<length marking in meters>

Logistic

Packing

Wooden drums with protection.

Delivery Length

Standard delivery length is 4 km with a tolerance of -1% / +3%

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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.

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