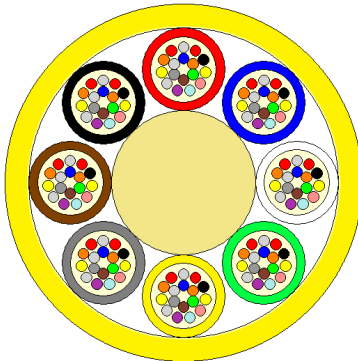


Stranded loose Tube micro cables for use in Ducts

Cable Design

IEC/EN 60794



- not to scale -

- **Fibres:** G.657.A1 200µm.
- **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.

This loose tube dielectric optical cable is designed for outdoor installation in ducts and microducts by blowing or pulling techniques.

Technical data

No. of Fibres		288		
No. of tubes x no. fibres/tube		8 x 36		
Cable Diameter	mm	8.1		
Cable Weight	kg / km	55		
Minimum Bending Radius	mm	Without Tension		Under Maximum Tension
		15 x Cable-Ø		20 x Cable-Ø
Temperature Range	°C	Installation		Operation
		-10 to +50		-30 to +60
		Transport & Storage		-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 for G.657.A1 200µm.

Identification

Fibre Colours

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

No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	red ¹	blue ¹	white ¹	green ¹	yellow ¹	grey ¹	brown ¹	white ²	violet ¹	orange ¹	aqua ¹	pink ¹

No.	25	26	27	28	29	30	31	32	33	34	35	36
Colour	red ²	blue ²	white ³	green ²	yellow ²	grey ²	brown ²	white ⁴	violet ²	orange ²	aqua ²	pink ²

<colour>ⁿ with evenly spaced groups of "n" black ring marks

Buffer Tube Colours

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

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

**RALA DRAKA(SR) JN-SM-Versa Slim 200 XS81 / GRHLDV 288 x <fibre type> 200µm S12
Idno.<cable ID> <year> <length marking>m**

Logistic

Packing:

Plywood drums with protection

Delivery Length:

Standard delivery length is 4km 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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