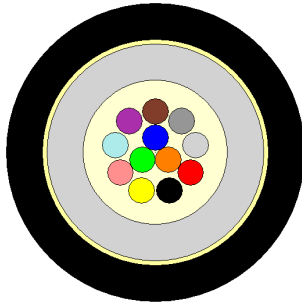


## Unitube Mini Cables for use in Ducts

### Cable Design

**IEC/EN 60794**



- not to scale -

- **Loose Tube:** thermoplastic material, containing optical fibres and filled with a suitable water tightness compound.
- **Longitudinal Water Tightness:** dry core with water swellable elements.
- **Strength members:** aramid yarns are applied in the cable.
- **Outer sheath:** consists of a special high-density polyethylene compound.

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

### Technical data

No. of Fibres		2 - 12		
Cable Diameter	mm	2.9		
Cable Weight	kg / km	6.8		
Min. bending radius	mm	Without Tension 10 x Cable-Ø		Under Maximum Tension 25 x Cable-Ø
Temperature range	°C	Installation -10 to +50	Transport. & Storage -40 to +70	Operation -20 to +60

### Main characteristics

Test	Standard	Specified value	Acceptance Criteria <sup>(3)</sup>
Tensile Performance	IEC 60794-1-2-E1	250 N	$\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	1250N, 100mm plate/plate 1min.	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-2-E4	3 Nm, R=200mm, 3 impacts	$\Delta\alpha \leq 0.05$ dB
Repeated bending	IEC 60794-1-2-E6	R= 15x cable Ø, 100 cycles, 20N	no damage
Cable bend	IEC 60794-1-2-E11	R= 10x cable Ø, 5 turns, 3 cycles <sup>(1)</sup>	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature range <sup>(2)</sup>	IEC 60794-1-2-F1	-20 to +60°C -30 to +70°C	$\Delta\alpha \leq 0.05$ dB $\Delta\alpha$ reversible
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	no water leakage after 24h

<sup>(1)</sup> at room temperature 23°C ± 2°C    <sup>(2)</sup> temperature cycling test shall be performed on cable coil (without drum)

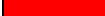






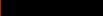




<sup>(3)</sup> all optical measurements at 1550 nm

### 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	red	blue	white	green	yellow	grey	brown	black	violet	orange	aqua	pink
												

### Sheath Colour:

The outer sheath colour is black.

### Sheath Marking:

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

**PRYSMIAN(SR)**    <year/week of manufacture>    **GRCL-U-DGV** <no. and type of fibres>  
IDno. <cable ID>    <length marking>m

## Logistic

### Packing:

Plywood drums with protection

### Delivery Lengths:

Standard delivery lengths are 4km and 6km with a tolerance of -1% / +3%

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