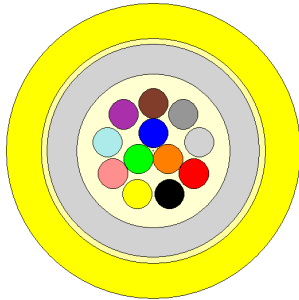


Unitube Mini Cables for use in Microducts

Cable Design

IEC/EN 60794



- not to scale -

- **Fibres:** single mode G.657A2 BendBright-XS.
- **Loose Tube:** thermoplastic material, containing up to 12 fibres and filled with a suitable gel compound.
- **Water Tightness:** fully watertight construction.
- **Strength members:** aramid yarns are applied in the cable.
- **Outer sheath:** high-density polyethylene compound, halogen free.

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

Technical data

No. of Fibres		2	4	6	8	12
Design		1x2	1x4	1x6	1x8	1x12
Cable Diameter	mm			2.5		
Cable Weight	kg / km			5.7		

Main characteristics

Test	Standard	Specified value	Acceptance Criteria ⁽³⁾
Tensile Performance	IEC 60794-1-2-E1	150N	$\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	1000N, 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	$\Delta\alpha \leq 0.05$ dB
Cable bend	IEC 60794-1-2-E11	R= 10x cable Ø, 5 turns, 3 cycles ⁽¹⁾	$\Delta\alpha \leq 0.05$ dB
Temperature range ⁽²⁾	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
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

⁽¹⁾ at room temperature $23^\circ\text{C} \pm 2^\circ\text{C}$ ⁽²⁾ temperature cycling test shall be performed on cable coil (without drum)

⁽³⁾ all optical measurements at 1550 nm.

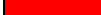








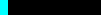


Optical Characteristics

See cabled optical fibre data sheet C24 BendBright®XS.



Identification

Fibre Colours

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

Sheath Colour:

The outer sheath colour is yellow.

Sheath Marking:

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

**<Manufacturer> <year of manufacture > OPTICAL CABLE URE25 <fibre count> x G.657A2
<length marking>m**

Logistic

Packing:

Plastic or Plywood Drums with protection

Delivery Lengths:

Standard delivery length is 6000 m 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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