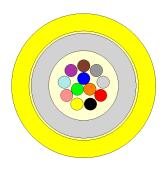




Unitube Mini Cables for use in Microducts

Cable Design IEC/EN 60794



- not to scale -

- **Fibres:** see datasheet CFS09011 for G.657.A1 and CFS09003 for G.657.A2.
- 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. and Type of Fibres		2 x G.657.A2	4 x G.657.A2	12 x G.657.A1	12 x G.657.A2		
Design		1 x 2	1 x 4	1 x 12			
Cable Diameter	mm	2	.9	3.2			
Cable Weight	kg / km	6	.8	8.2			

Main characteristics

Test	Standar	·d	Specified value	e Accept			ance Criteria ⁽³⁾		
Tensile Performance	IEC 6079	94-1-2-E1	250N			$\Delta \alpha \leq 0.05 \text{ dB}$			
Crush	IEC 6079	94-1-2-E3	1250N, 100mm plate/plate 1min.			$\Delta \alpha \leq 0.05 \text{ dB}$			
Impact	IEC 6079	94-1-2-E4	3 Nm, R=200mm, 3 impacts			$\Delta \alpha \leq 0.05 \text{ dB}$			
Repeated bending	IEC 6079	94-1-2-E6	R= 15x cable Ø,100 cycles, 20N			$\Delta \alpha \leq 0.05 \text{ dB}$			
Cable bend	IEC 6079	94-1-2-E11	R= 10x cable Ø, 5 turns, 3 cycles ⁽¹⁾			$\Delta \alpha \leq 0.05 \text{ dB}$			
Temperature range ⁽²⁾	IEC 60794-1-2-F1		-30 to +60°C			$\Delta \alpha \leq 0.05 \text{ dB/km}$			
			-40 to +70°C			$\Delta \alpha$ reversible			
Water Penetration	IEC 6079	94-1-2-F5B	sample=3m, water=1m			no water leakage after 24h			
Min. bending radius	mm		Without Tension			Under Maximum Tension			
		10 x Cable-Ø				25 x Cable-Ø			
Temperature range	°C	Installation		Transport. & Storage		age	Operation		

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

Optical Characteristics

See attached cabled optical fibre data sheet for G.657.A1 and G.657.A2 fibres.

⁽³⁾ all optical measurements at 1550 nm.





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 yellow.

Sheath Marking:

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

<dd>: cable diameter in tenths of millimetre

Logistic

Packing:

Plastic or Plywood drums with protection

Delivery Lengths:

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

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