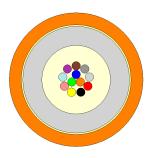




Unitube Mini Cables for use in Ducts

Cable Design IEC/EN 60794



- not to scale -

- Optical Fibres: multimode fibres.
- Loose Tube: thermoplastic material filled with a suitable water tightness
 compound. The fibres are uniquely identified by a different colour and grouped
 in 12 fibre groups with a coloured yarn.
- **Strength members:** 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	4	6	8	12	24	
Cable Diameter	mm	3.9						
Cable Weight	kg / km	12.5						
Tensile Performance	N	150						
		Without Tension 15 x Cable-Ø			Under Maximum Tension 25 x Cable-Ø			
Min. bending radius	mm			n	Unde		nsion	

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

Main characteristics

Test	Standard	Specified value	Acceptance Criteria (3)
Tensile Performance	IEC 60794-1-2-E1	See table above.	$\Delta \alpha \leq 0.5 \text{ dB}$
Crush	IEC 60794-1-2-E3	1000N, 100mm plate/plate 1min.	$\Delta \alpha \leq$ 0.5 dB, no damage
Impact	IEC 60794-1-2-E4	5 Nm, R=200mm, 3 impacts	no damage
Torsion	IEC 60794-1-2-E7	±180°, L=1m, 10 cycles	$\Delta \alpha \leq$ 0.5 dB, no damage
Kink	IEC 60794-1-2-E10	min diameter=15 x cable Ø	no damage
Repeated bending	IEC 60794-1-2-E6	R=15 x cable Ø,100 cycles, 20N	no damage
Cable bend	IEC 60794-1-2-E11	R=10 x cable Ø, 5 turns, 3 cycles (2)	$\Delta \alpha \leq$ 0.5 dB, no damage
Temperature range (3)	IEC 60794-1-2-F1	-20 to +60°C	$\Delta \alpha \leq 0.5 \text{ dB/km}$
		-30 to +70°C	$\Delta \alpha$ reversible
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	no water leakage after 24h

⁽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)

Optical Characteristics

See the attached cabled optical fibre data sheet for multimode fibre.

⁽³⁾ all optical measurements at 1300 nm.



JN-MM-URE39



Identification

Fibre Colours

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

Yarn Colouring

No.	1	2		
Colour	red	white		

Sheath Colour:

The outer sheath colour is orange.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows

<Manufacturer> JN-URE <year> OPTICAL CABLE <fibre count> x <fibre type> <length marking>

Logistic

Packing:

Plastic or plywood drums with protection.

Delivery Lengths:

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

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