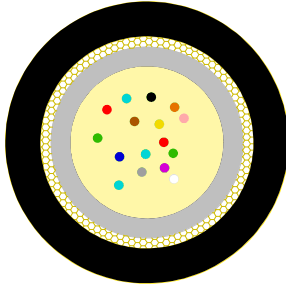


unitube mini cables for use in microducts

Cable Design



JetNet®

- not to scale -

- **Fibres:** See specification.
- **Loose Tube:** Thermoplastic material filled with a suitable water tightness compound.
- **Strength members:** are applied in the cable.
- **Outer sheath:** consists of a special high-density polyethylene compound.

This central 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	36	48	60	72	96
No. of fibres per group		2	4	6	8	12						
Loose Tube- Ø	mm	3.1							3.4	4.6	4.9	5.4
Sheath thickness	mm	0.4										
Cable Diameter	mm	3.9							5.0	5.6	5.9	6.5
Cable Weight	kg / km	12.5							21	27	30	38
Tensile Performance	N	150							200	300		

Main characteristics

Test	Standard	Specified value	Acceptance Criteria**
Tensile Performance	IEC 60794-1-2-E1	See table above.	$\Delta\alpha \leq 0.05$ dB, fibre strain $\leq 0.33\%$
Crush	IEC 60794-1-2-E3	500N, 100mm plate/plate 1min. 1000N, 100mm plate/plate 1min.	$\Delta\alpha \leq 0.05$ dB, during test,no damage $\Delta\alpha \leq 0.05$ dB, after test,no damage
Impact	IEC 60794-1-2-E4	2 Nm, R=300mm, 3 impacts	No damage
Torsion	IEC 60794-1-2-E7	$\pm 180^\circ$, L=1m, 10 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Kink	IEC 60794-1-2-E10	Min diameter=15x cable Ø	No damage
Repeated bending	IEC 60794-1-2-E6	R= 15x cable Ø,100 cycles, 20N	No damage
Cable bend	IEC 60794-1-2-E11	2-24 of: D=150mm; 36-96of : D=250mm; 5 turns,3 cycles,-10°C,	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature range	IEC 60794-1-2-F1	-30 to +60°C -40 to +70°C	$\Delta\alpha \leq 0.05$ dB $\Delta\alpha \leq 0.15$ dB
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 hour

** values for single-mode fibres, all optical measurements performed at 1550 nm.













Min. bending radius	mm	Without Tension 15 x Cable-Ø	Under Maximum Tension 25 x Cable-Ø
Temperature range	°C	Installation -10 to +50	Transport. & Storage -40 to +70 Operation -40 to +60

Optical Characteristics









See the attached cabled optical fibre data sheet C06e and C17e.

Identification

Fiber / Loose Tube Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	turquoise
												

Binder Yarn Colours

No.	1	2	3	4	5	6	7	8
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black
								

Sheath Colour

The colour is black.

Sheath Marking

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

DRAKA(DL) JN-SM-URE [fibre count] × [fibre type] Idno.[xxxxxx] [mm/yyyy] [length marking]m

Logistic

Packing:

Plastic or Plywood Drums with protection.

Delivery Lengths:

Standard delivery length is 4km, 6 km 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 Prysmian: any modification or alteration afterwards of product may give different result.

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