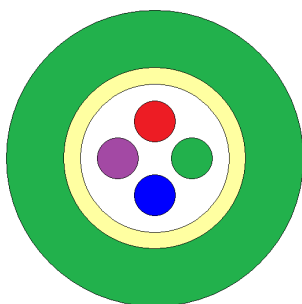


TRX Minicables for Use in Microducts

Cable Design



- not to scale -

- **Buffer:** All fibres are grouped together in an easy strippable natural coating.
- **Strength member:** aramid yarns.
- **Outer sheath:** high e-modulus thermoplastic compound.

This dielectric optical cable is designed for outdoor installation in microducts by blowing or pulling techniques.

Technical data

No. of Fibres		4		
Cable Diameter	mm	1.8 ± 0.2		
Cable Weight	kg / km	3		
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 -30 to +70	Operation -40 to +60

Main characteristics

Test	Standard	Specified value	Acceptance Criteria ⁽²⁾
Tensile Performance	IEC 60794-1-2-E1	150 N	$\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	500N, 100mm, 1 min	$\Delta\alpha \leq 0.05$ dB during test, no damage
Impact	IEC 60794-1-2-E3	3 Nm, R=300mm, 3 impacts	no damage
Repeated bending	IEC 60794-1-2-E6	R=25xD, 100 cycles	$\Delta\alpha \leq 0.05$ dB
Torsion	IEC 60794-1-2-E7	$\pm 180^\circ$, L=1m, 10 cycles	$\Delta\alpha \leq 0.05$ dB
Kink	IEC 60794-1-2-E10	min diameter=30mm	no damage
Cable bend	IEC 60794-1-2-E11	R=25xD, 5 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB
Temperature range ⁽¹⁾	IEC 60794-1-2-F1	-15 to +30°C -40 to +60°C	$\Delta\alpha \leq 0.05$ dB $\Delta\alpha \leq 0.1$ dB and reversible

⁽¹⁾ temperature cycling test shall be performed on cable coil (without drum)

⁽²⁾ values for single mode fibres, all optical measurements performed at 1550 nm.

Optical Characteristics

See attached cabled optical fibre data sheet.

Identification

Fibre Colours

No.	1	2	3	4
Colour	red	blue	white	green
				

Sheath Colour:

The outer sheath colour is green.

Sheath Marking:

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

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

Logistic

Packing:

Plywood drums with protection

Delivery Lengths:

Standard delivery lengths are 2km and 4km 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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