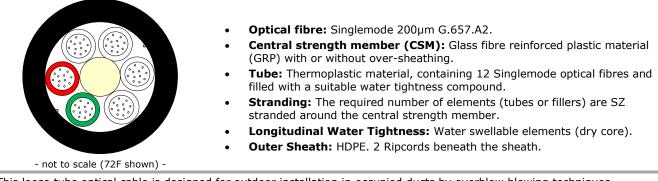




Overblow Duct Optical Mini-Cable

Cable Design

IEC/EN 60794



This loose tube optical cable is designed for outdoor installation in occupied ducts by overblow blowing techniques.

Technical data

No. of Fibres		72	96	144
Design	Part No	60073556	60073557 60073558	
Layout (tubes x fibres)		6x12	8x12	12x12
Loose Tube / Filler - Ø	mm		1.3	
CSM/sheath diameter	mm	1.4	2.2	3.0/3.9
Sheath thickness	mm		0.5	
Cable Diameter	mm	5.0	5.8	7.5
Cable Weight	kg / km	22	32	53
Max installation tension	N	220	320	530
Min. bending radius	mm			r Maximum Tension 20 x Cable-Ø
Temperature range	°C	Installation -30 -> +45;	Transport. & Storage -40 -> +70;	Operation -40 -> +70;

Please refer to Overblow Installation Procedure (Contact for info), General Installation (Datasheet Ref:CIG031) and Safety & Handling recommendations (Generic Optical cable MSDS - Datasheet Ref:9980-02-1) before handling.

Main characteristics

Test	Standard	Value	Requirement*
Maximum Tension at installation (short term)	IEC 60794-1-21-E1	1W (see table above)	Fibre strain \leq 0.6%, $\Delta \alpha$ reversible
Crush	IEC 60794-1-21-E3A	1000N	$\Delta \alpha \leq$ 0.05 dB, cable integrity
Impact	IEC 60794-1-21-E4	2Nm, 3 impacts, r=300mm	$\Delta \alpha \leq 0.05 \text{ dB}$
Repeated bending	IEC 60794-1-21-E6	R = 20 x cable Ø, 10N, 35 cycles	cable integrity
Torsion	IEC 60794-1-21-E7	100N, ± 360°, 10 cycles, 2m	$\Delta \alpha \leq$ 0.05 dB, cable integrity
Kink	IEC 60794-1-21-E10	R = 20 x cable Ø	cable integrity
Cable bend	IEC 60794-1-21-E11	R = 20 x cable Ø	$\Delta \alpha \leq$ 0.05 dB, cable integrity
Temperature range	IEC 60794-1-22-F1	-30°C to +70°C	$\Delta \alpha \leq$ 0.05 dB/km
	IEC 60794-1-22-F1	-40°C to +70°C	$\Delta \alpha \leq 0.15 \text{ dB/km}$
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water column=1m	No water leakage after 24 hours
Ageing	IEC 60794-1-2-F9	168 hours, 85°C	$\Delta\alpha \leq$ 0.25 dB/km; \leq 0.15 dB/km ave.
*all ontical measurements i	performed at 1550 nm		

*all optical measurements performed at 1550 nm







Optical Characteristics

See Optical Fibre Datasheet Ref: Singlemode 200µm G.657.A2 fibre (HE).

Identification

Fibre Colours

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

Buffer Tube Colours

	Marker	Intermediate	Pilot
Colour	Red	White	Green

Sheath Colour:

The outer sheath colour is black.

Sheath Marking:

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

Installation

Duct:

Designed to be installed by blowing into occupied miniduct.

Logistic

Packing: Plywood or plastic reels.

Delivery Lengths:

Standard delivery length is 4km. Maximum delivery length is 6km.

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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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