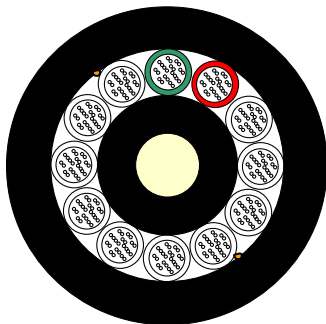


## Overblow Duct Optical Mini-Cable

### Cable Design

IEC/EN 60794



- not to scale (288F cable shown) -

- **Optical fibre:** Singlemode 200µm G.657.A2.
- **Central strength member (CSM):** Glass fibre reinforced plastic material (GRP) with or without over-sheathing.
- **Tube:** Thermoplastic material, containing 24 Singlemode optical fibres and filled with a suitable water tightness compound.
- **Stranding:** The required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Longitudinal Water Tightness:** Water swellable elements (dry core).
- **Outer Sheath:** HDPE. 2 Ripcords beneath the sheath.

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

### Technical data

No. of Fibres		144	192	288
Design	Part No	60073558	60073560	60073561
Layout (tubes x fibres)		6x24	8x24	12x24
Loose Tube / Filler - Ø	mm		1.9	
CSM/sheath diameter	mm	2.0	2.7 / 3.3	3.5 / 6.0
Sheath thickness	mm		0.5	
Cable Diameter	mm	6.8	8.1	10.8
Cable Weight	kg / km	40	58	100
Max installation tension	N	400	580	1000
Min. bending radius	mm	Without Tension 20 x Cable-Ø		Under 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 ≤ 0.6%, Δα reversible
Crush	IEC 60794-1-21-E3A	1000N	Δα ≤ 0.05 dB, cable integrity
Impact	IEC 60794-1-21-E4	2Nm, 3 impacts, r=300mm	Δα ≤ 0.05 dB
Repeated bending	IEC 60794-1-21-E6	R = 20 x cable Ø, 100N, 35 cycles	cable integrity
Torsion	IEC 60794-1-21-E7	100N, ± 360°, 10 cycles, 2m	Δα ≤ 0.05 dB, cable integrity
Kink	IEC 60794-1-21-E10	R = 20 x Cable Ø	Δα ≤ 0.05 dB, cable integrity
Cable bend	IEC 60794-1-21-E11	R = 20 x Cable Ø	Δα ≤ 0.05 dB, cable integrity
Temperature range	IEC 60794-1-22-F1	-30°C to +70°C -40°C to +70°C	Δα ≤ 0.05 dB/km Δα ≤ 0.15 dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water head=1m	No water leakage after 24 hours
Ageing	IEC 60794-1-2-F9	168 hours, 85°C	Δα ≤ 0.25 dB/km; ≤ 0.10 dB/km ave.

\*all optical measurements performed at 1550 nm.

## Optical Characteristics

See Optical Fibre Datasheet Ref: 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

No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	Orange 1 Ring	Green 1 Ring	Red 1 Ring	White 1 Ring	Yellow 1 Ring	Pink 1 Ring	Orange 2 Rings	Green 2 Rings	Red 2 Rings	White 2 Rings	Yellow 2 Rings	Pink 2 Rings

### 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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