

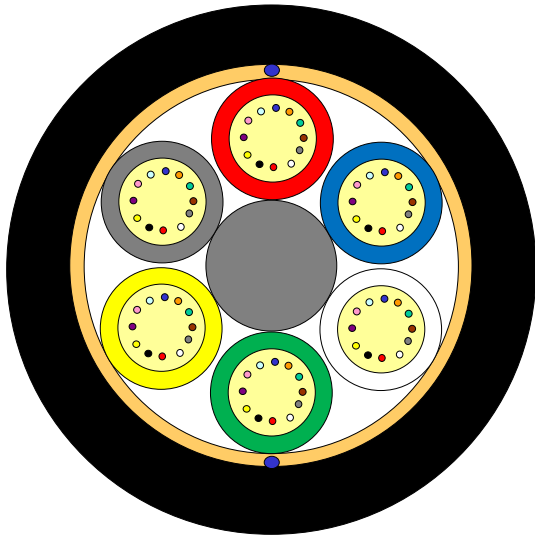
# Loose Tube Fibre Optic Outdoor Cable

## 6 Element All Dielectric Dry Core Design

MiDia®



Issue March 2019  
according to **Customised OFS Generic Specification**



### Application

Optimised for Air-Blown Installation

### Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Ripcords
- PE-Jacket

### Features

- Small tubes for a reduced outer diameter
- Dry Core Design – Cable core water blocked by means of dry “water swellable” technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 72 Fibre Cable

Article Number	Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	AT-Code**
<b>12 Singlemode Fibres per Tube</b>						
K1-3590	12	1	1+6 (5 Fillers*)	7.5	45	AT-3CE45CT-012
K1-3294	24	2	1+6 (4 Fillers*)	7.5	45	AT-3CE45CT-024
K1-3591	48	4	1+6 (2 Fillers*)	7.5	45	AT-3CE45CT-048

This table shows nominal diameter and weight values which may differ in shipments.

\*Fillers are natural coloured and evenly distributed over the positions.

\*\*Please refer to the OFS AT- Code.

### Identification

#### Tube and Fibre Colour Code:

1	Red	2	Blue	3	White	4	Green	5	Yellow	6	Grey
7	Brown	8	Black	9	Violet	10	Orange	11	Turquoise	12	Rose

### Sheath Marking

OFS OPTICAL CABLE MIDIA [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]

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### Mechanical Properties and Environmental Behaviour

Tests according to IEC 60794

	Parameter	Requirement	Value
<b>Tensile Performance:</b> IEC 60794-1-21-E1A and E1B	Long term load	- No attenuation increase* - No fibre strain	Load: 500 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: $1.5 \times W$ <i>W is the weight of the cable in N</i>
<b>Crush Performance:</b> IEC 60794-1-21-E3A	Long term load	- No attenuation increase*	Load (Plate / Plate): 500 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 750 N
<b>Bending Performance:</b> IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 90 mm
	During installation (under Load)	- No changes in attenuation before versus after load	Bend radius: 180 mm
<b>Temperatures:</b> IEC 60794-1-22-F1	Operation	- No attenuation increase*	-30 to +70°C
	Installation		-15 to +40°C
	Storage/Shipping		-40 to +70°C

\*No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than or equal to 0.05 dB.

\*\*Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath. The imprint of plates will not be considered as damage.

### Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	1050 mm	790 mm	145 kg	170 kg
4000 m	1050 mm	790 mm	235 kg	260 kg
6000 m	1250 mm	790 mm	350 kg	380 kg
8000 m	1450 mm	790 mm	470 kg	510 kg

The shipping information are given for one-way reels. Reusable reels are available on request.

The information is believed to be accurate at time of issue.

OFS reserves the right to improve, enhance and modify the features and specifications of OFS products without prior notification.

Please ensure you have the latest version of the data sheet.

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For additional information please contact your sales representative.

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