

# Loose Tube Fibre Optic Outdoor Cable

36 Element All Dielectric Dry Core Design

MiDia®



Issue April 2018  
according to OFS Generic Specification



## Design

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

## Features

- All Dielectric Cable
- 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 432 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code*
<b>12 Fibres per Tube</b>						
432	36	1 + 36	17	230	2000 / 4000 / 6000	AT-[ ][ ]45CT-432

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

\*Please refer to the OFS AT- Code. The blanks specify the fibre type.

## Identification

### Fibre Colour Code:

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

Alternative fibre colour code available on request

### Tube Colour Code inner Layer (15 tubes):

1+13*	Blue	2+14*	Orange	3+15*	Green	4	Brown	5	Grey	6	White
7	Red	8	Black	9	Yellow	10	Violet	11	Rose	12	Aqua

### Tube Colour Code outer Layer (21 tubes):

1+13*	Blue	2+14*	Orange	3+15*	Green	4+16*	Brown	5+17*	Grey	6+18*	White
7+19*	Red	8	Black	9+20*	Yellow	10+21*	Violet	11	Rose	12	Aqua

Alternative tube colour code available on request

\* Tube marked with black marker

## Sheath Marking

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

Alternative sheath printing available on request.

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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: 1000 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.33%	Load: 1.5 x 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): 1200 N
<b>Bending Performance:</b> IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 180 mm
	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 360 mm
<b>Temperatures:</b> IEC 60794-1-22-F1	Operation	- No attenuation increase*	-30 to +60°C
	Installation		-15 to +40°C
	Storage/Shipping		-40 to +60°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
2 Km	1450 mm	790 mm	570 kg	610 kg
4 Km	1750 mm	1055 mm	1070 kg	1130 kg
6 Km	2050 mm	1100 mm	1560 kg	1640 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.

This data sheet is property of OFS. For additional information please contact your sales representative.

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