

# Loose Tube Fibre Optic Outdoor Cable

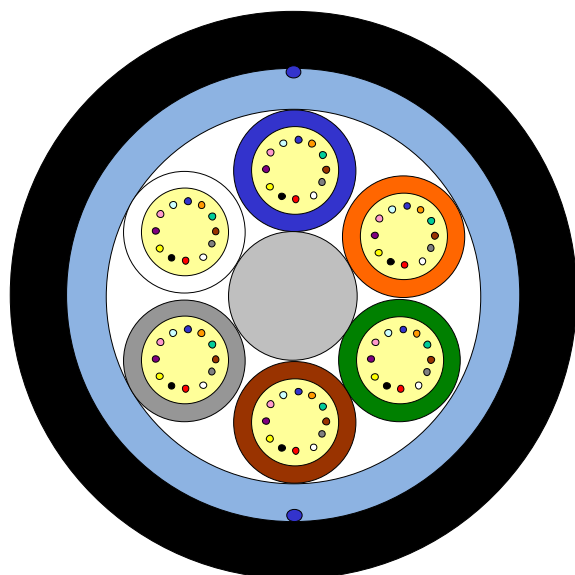
6 Elements All Dielectric Dry Core Design

**MiDia<sup>®</sup> Dielectric Rodent Protected**



A Furukawa Company

Issue April 2018  
according to **OFS Generic Specification**



## Application

Optimised for Air-Blown Installation

## Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Double layer of glass yarns
- Ripcords
- HDPE-Jacket

## Features

- All Dielectric Rodent Protected Cable – Double layer of Glass elements for Protection against Rodents
- 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

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
<b>12 Fibres per Tube</b>						
12	1	1+6 (5 Filler*)	8.3	60	2000 / 4000 / 6000 / 8000	AT-[ ][ ]55CT-012
24	2	1+6 (4 Filler*)	8.3	60	2000 / 4000 / 6000 / 8000	AT-[ ][ ]55CT-024
36	3	1+6 (3 Filler*)	8.3	60	2000 / 4000 / 6000 / 8000	AT-[ ][ ]55CT-036
48	4	1+6 (2 Filler*)	8.3	60	2000 / 4000 / 6000 / 8000	AT-[ ][ ]55CT-048
60	5	1+6 (1 Filler*)	8.3	60	2000 / 4000 / 6000 / 8000	AT-[ ][ ]55CT-060
72	6	1+6 (0 Filler*)	8.3	60	2000 / 4000 / 6000 / 8000	AT-[ ][ ]55CT-072

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. The blanks specify the fibre type (for SM fibres up to 12 fibres per Tube and for MM fibres up to 6 fibres per Tube).

## Identification

### Tube and 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 tube and fibre colour code available on request

## Sheath Marking

**OFS OPTICAL CABLE MIDIA DIELECTRIC RODENT PROTECTED [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]**

Alternative sheath printing available on request.

In case of order the exact sheath printing text will be clarified with the customer.

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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: 400 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	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): 1500 N
<b>Bending Performance:</b> IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 15 x D
	During installation (under Load)	- No changes in attenuation before versus after load	Bend radius: 25 x D <i>D is cable diameter</i>
<b>Temperatures:</b> IEC 60794-1-22-F1	Operation	- No attenuation increase*	-30 to +70°C
	Installation		-15 to +60°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	180 kg	200 kg
4000 m	1050 mm	790 mm	300 kg	320 kg
6000 m	1250 mm	790 mm	440 kg	480 kg
8000 m	1450 mm	790 mm	590 kg	630 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. You can also visit our website at <http://www.ofsoptics.com>.

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