

# Loose Tube Fibre Optic Outdoor Cable

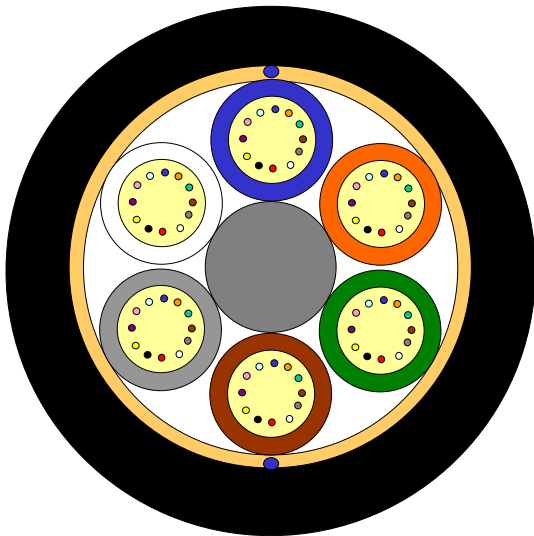
6 Element All Dielectric Dry Core Design

MiDia®



Issue March 2024

according to Customised OFS FURUKAWA SOLUTIONS Generic Specification



### Application

Optimised for Air-Blown Installation  
Recommended duct size for optimized blowing performance: 12 and 14 mm Inner Diameter

Other combinations are possible, please contact us for more information. Distance achievable depends on route, equipment, and quality of duct.

### 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

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
12	1 (12F)	1+6 (5 Fillers*)	7.5 ± 0.3	45	2000 / 4000 / 6000 / 8000	AT-[ ][ ][45CT-012
24	2 (12F)	1+6 (4 Fillers*)	7.5 ± 0.3	45	2000 / 4000 / 6000 / 8000	AT-[ ][ ][45CT-024
48	4 (12F)	1+6 (2 Fillers*)	7.5 ± 0.3	45	2000 / 4000 / 6000 / 8000	AT-[ ][ ][45CT-048
72	6 (12F)	1+6	7.5 ± 0.3	45	2000 / 4000 / 6000 / 8000	AT-[ ][ ][45CT-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 FURUKAWA SOLUTIONS AT- Code. The blanks specify the fibre type.

### 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 [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: 500 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 1200 N
<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): 900 N
<b>Impact Performance:</b> IEC 60794-1-21-E4	R of anvil = 300 mm	- No changes in attenuation before versus after load	Energy: 2.5 J
	3 Impacts ≥ 500 mm apart	- No damage**	
<b>Buffertube Kink:</b> IEC 60794-1-23-G7	5 Cycles	- No kinking	L = 60 mm
	L1 = 350 mm L2 = 100 mm		
<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>Temperature Performance:</b> IEC 60794-1-22-F1	Operation	- No attenuation increase*	-40 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	Width	Cable + Drum
2000 m	1000 mm	780 mm	140 kg
4000 m	1000 mm	780 mm	230 kg
6000 m	1200 mm	780 mm	335 kg
8000 m	1400 mm	780 mm	450 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.

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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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