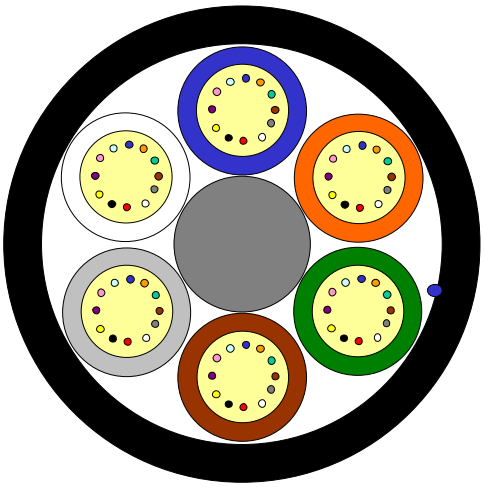
Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

MiDia® Micro FX

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



Application
Air-Blown Installation into Micro-Ducts

Design
- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Ripcord
- 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	1+6 (5 Filler*)	6.3	35	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]46CT-012
24	2	1+6 (4 Filler*)	6.3	35	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]46CT-024
36	3	1+6 (3 Filler*)	6.3	35	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]46CT-036
48	4	1+6 (2 Filler*)	6.3	35	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]46CT-048
60	5	1+6 (1 Filler*)	6.3	35	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]46CT-060
72	6	1+6	6.3	35	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]46CT-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 MICRO FX [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
Tensile Performance: IEC 60794-1-21-E1A and E1B	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 700 N
Crush Performance: IEC 60794-1-21-E3A	Long term load	- No attenuation increase*	Load (Plate / Plate): 300 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 1000 N
Bending Performance: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 75 mm
	During installation (under Load)	- No changes in attenuation before versus after load	Bend radius: 150 mm
Temperatures: IEC 60794-1-22-F1	Operation	***Single-mode Fibres*:** - No attenuation increase*	-30 to +70°C
	Installation		-15 to +40°C
	Storage/Shipping		-40 to +70°C
	Operation	***Multimode Fibres:*** - No attenuation increase***	-20 to +70°C
	Installation		-15 to +40°C
	Storage/Shipping		-30 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 of equal to 0.05 dB for Single-mode Fibres and 0.2 dB for Multimode Fibres.

** 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.

*** No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The maximal allowance for attenuation changes shall be less than of equal to +/- 0.2 dB/km for 90 % and +/- 0.3 dB/km for 100 % of the fibres.

Shipping Information

Cable Length	Small Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1050 mm**	**790 mm**	**130 kg**	**150 kg**
4000 m	**1050 mm**	**790 mm**	**200 kg**	**220 kg**
6000 m	**1050 mm**	**790 mm**	**270 kg**	**290 kg**
8000 m	**1250 mm**	**790 mm**	**360 kg**	**400 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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You can also visit our
website at http://www.ofsoptics.com.
Telephone: +49 (0) 228 7489 201
Email: cableinfo@ofsoptics.com

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