

Loose Tube Fibre Optic Outdoor Cable

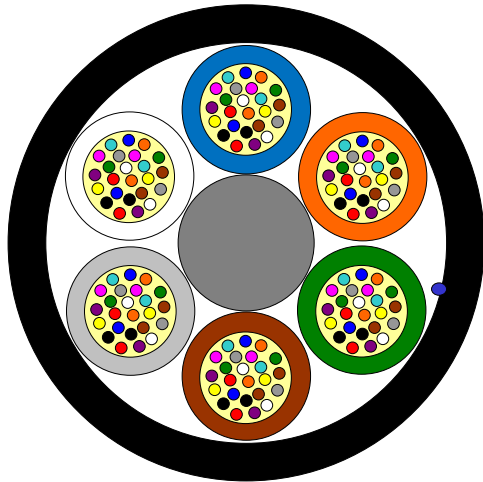
6 Element All Dielectric Dry Core Design

MiDia® Micro EX



Issue July 2020

According to **OFS Generic Specification**



Application

Air-Blown Installation into Micro-Ducts

Design

- Optical Fibres (250µm)
- 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 144 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
24 Fibres per Tube						
144	6	1+6	6.8	50	2000 / 4000 / 6000 / 8000	AT-[][]46XF-144

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 Colour Code:

1	Blue	2	Orange	3	Green	4	Brown	5	Grey	6	White
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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
13	Blue*	14	Orange*	15	Green*	16	Brown*	17	Grey*	18	White*
19	Red*	20	Nature	21	Yellow*	22	Violet*	23	Rose*	24	Aqua*

* Black ring

Alternative tube and fibre colour code available on request

Sheath Marking

OFS OPTICAL CABLE MIDIA MICRO EX [ID] [MM/YYYY] [Handset Sign] 144F [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	Long term load	- No attenuation increase* - No fibre strain	Load: 250 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 2.0 x W <i>W is the weight of the cable</i>
Crush Performance: IEC 60794-1-21-E3A	Long term load	- No attenuation increase*	Load (Plate / Plate): 200 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 700 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	- 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.

***No changes in attenuation either positive or negative higher than 0.15 dB/km in the 1550 nm range according to the Microcable Standard IEC 60794-5-10:2014.

Shipping Information

Cable Length	Small Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	1050 mm	790 mm	160 kg	180 kg
4000 m	1050 mm	790 mm	260 kg	280 kg
6000 m	1050 mm	790 mm	360 kg	380 kg
8000 m	1250 mm	790 mm	480 kg	520 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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For additional information please contact your sales representative.
You can also visit our website at <http://www.ofsoptics.com>.
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