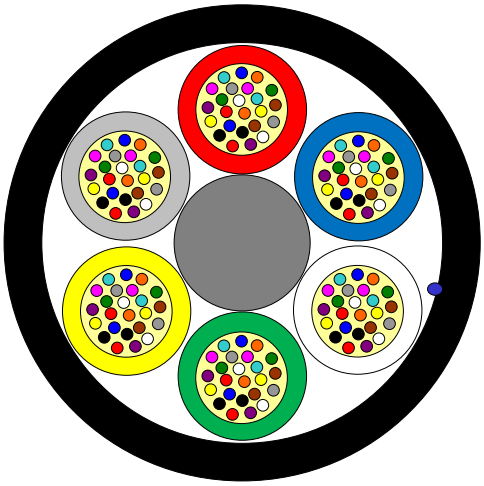
Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

MiDia® Micro EX / K1-3457

Issue October 2018
According to **Customised 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 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-3CE46XF-144

This table shows nominal diameter and weight values which may differ in shipments.
*Please refer to the OFS AT- Code.

Identification

Tube Colour Code:

1	Red	**2**	Blue	**3**	White	**4**	Green	**5**	Yellow	**6**	Grey

Fibre Colour Code:

1	Red	**2**	Blue	**3**	White	**4**	Green	**5**	Yellow	**6**	Grey
7	Brown	**8**	Black	**9**	Violet	**10**	Orange	**11**	Turquoise	**12**	Pink
13	Red *	**14**	Blue*	**15**	White *	**16**	Green*	**17**	Yellow *	**18**	Grey *
19	Brown *	**20**	Nature*	**21**	Violet *	**22**	Orange*	**23**	Turquoise*	**24**	Pink*

* 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:	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 250 N
IEC 60794-1-21-E1A and E1B			
Crush Performance:			
IEC 60794-1-21-E3A	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 800 N
Bending Performance:	Handling fixed installed	- No attenuation increase*	Bend radius: 60 mm
IEC 60794-1-21-E11	During installation (under Load)	- No changes in attenuation before versus after load	Bend radius: 120 mm
Temperatures:	Operation Installation Storage/Shipping	- No attenuation increase*	-40 to +70°C -15 to +40°C -40 to +70°C
IEC 60794-1-22-F1			

* 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.

** 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	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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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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