

Loose Tube Fibre Optic Outdoor Cable

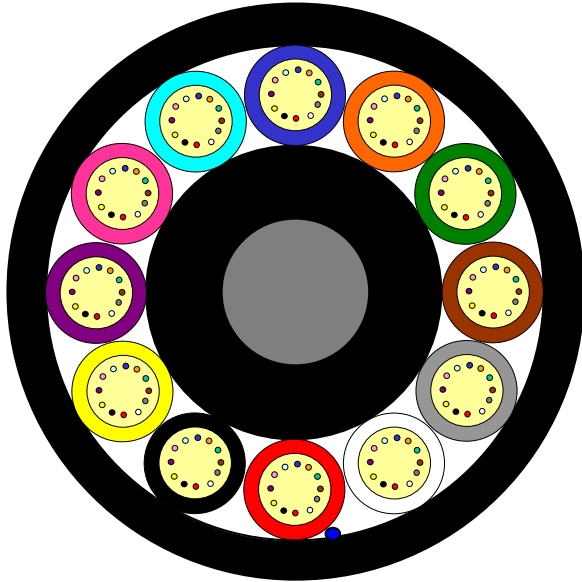
12 Element All Dielectric Dry Core Design

MiDia® Micro GX



Issue January 2024

according to **OFS FURUKAWA SOLUTIONS Generic Specification**



Application

Air-Blown Installation into Micro Ducts
 Recommended duct size for optimized blowing performance: 10, 12 and 14 mm Inner Diameter
 Pushforce [N]: 350 in 10 mm ID-Duct

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

Design

- Optical Fibres
- Non-metallic Central Member
- Gel-filled Buffer Tubes
- Ripcord
- PE-Sheath

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

Version illustrated is the 144 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code*
12 Fibres per Tube						
144	12	1+12	8.0	60	2000 / 4000 / 6000 / 8000	AT-[][][]453T-144

This table shows nominal diameter and weight values which may differ in shipments

*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 MICRO GX [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 60794-5-10**

	Parameter	Requirement	Value
Tensile Performance: IEC 60794-1-21-E1A and E1B	Long term load	- No attenuation increase*	Load: 500 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.6%	Load: 2600 N
Crush Performance: IEC 60794-1-21-E3A	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 600 N
Bending Performance of Cable: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 100 mm
	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 200 mm
Temperature Performance: IEC 60794-1-22-F1	Operation	Single-mode Fibres:	-40 to +70°C
	Installation	- No attenuation increase*	-15 to +40°C
	Storage/Shipping		-40 to +70°C
	Operation	Multimode Fibres:	-30 to +70°C
Installation	- No attenuation increase***	-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 or 0.05 dB/km.

** 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 or equal to +/- 0.2 dB/km for 90 % and +/- 0.3 dB/km for 100 % of the fibres

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)
	Diameter	Width	Cable + Drum
2000 m	1000 mm	780 mm	170 kg
4000 m	1000 mm	780 mm	290 kg
6000 m	1200 mm	780 mm	421 kg
8000 m	1400 mm	780 mm	566 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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