

Loose Tube Fibre Optic Outdoor Cable

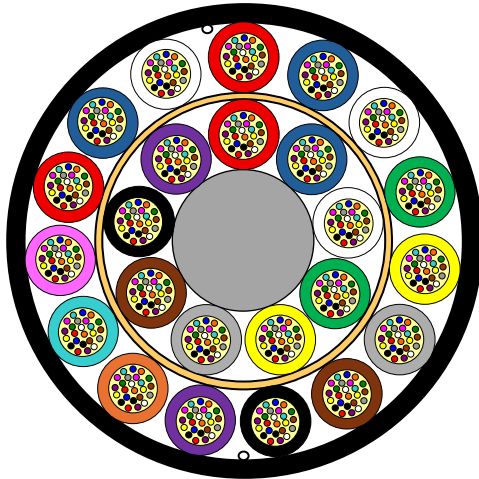
24 Element All Dielectric Dry Core Design

MiDia^{®200} Micro GX



Issue February 2026

according to **Alcadon and Lightera Generic Specification**



Application

Air-Blown Installation into Micro Ducts

Recommended duct size for optimized blowing performance: 14, 15 and 16 mm Inner Diameter

Push force [N]: 350 in 14 mm ID-Duct

Design

- Optical Fibres 200 µm
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Ripcords
- PE-Jacket

Features

- Bend insensitive 200µm Fibres
- 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 576 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code*
24 Fibres per Tube						
384	16	1+24 (8 Fillers*)	9.6	100	2000 / 4000 / 6000	AT-[][][]453F-384
432	18	1+24 (6 Fillers*)	9.6	100	2000 / 4000 / 6000	AT-[][][]453F-432
576	24	1+24	9.6	100	2000 / 4000 / 6000	AT-[][][]453F-576

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 Lightera AT- Code. The blanks specify the fiber type.

Identification

Tube Colour Code acc S12:

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

Fibre Colour Code acc S12:

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

* **Black ring**

Alternative tube and fibre colour code available on request.

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Sheath Marking

LIGHTERA OPTICAL CABLE MIDIA200 MICRO GX [ID] [MM/YYYY] [Handset Sign] xxxF S12 [Meter Marking]

Alternative sheath printing available on request.

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: 800 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 3000 N
Crush Performance: IEC 60794-1-21-E3A	Long term load	- No attenuation increase*	Load (Plate / Plate): 100 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 600 N
Bending Performance: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 125 mm
	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 250 mm
Temperatures: IEC 60794-1-22-F1 IEC 60794-5-10	Operation	- No attenuation increase*	-10 to +60°C
	Operation	- No attenuation increase***	-30 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

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)
	Diameter	Width	Cable + Drum
2000 m	1000 mm	780 mm	250 Kg
4000 m	1200 mm	780 mm	465 Kg
6000 m	1400 mm	780 mm	690 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.

Lightera reserves the right to improve, enhance and modify the features and specifications of Lightera products without prior notification.

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.lightera.com>

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