

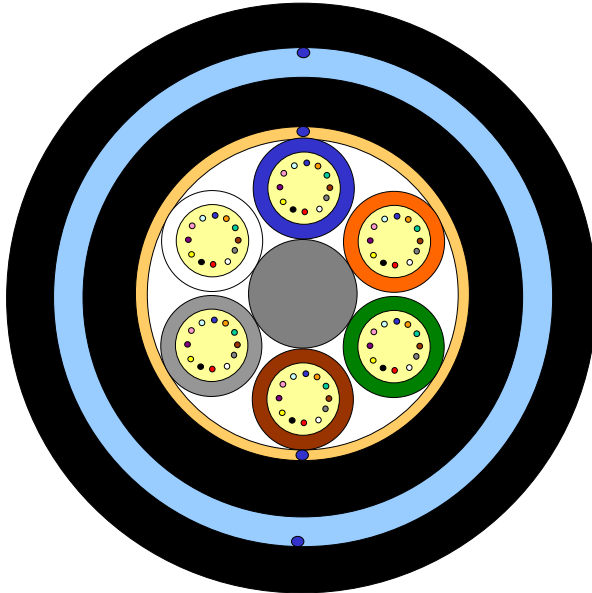
Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

MiDia[®] Dielectric Robust



Issue October 2020
according to **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling as well as suitable for direct burial into sand beds

Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Ripcords
- Layers of Dielectric Strength members
- PE-Jackets

Features

- PGP Sheath Construction - offers extra mechanical and environmental protection
- 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 (12F)	1+6 (5 Fillers*)	10.7	100	2000 / 4000 / 6000 / 8000	AT-[][][]25CT-012-Glass
24	2 (12F)	1+6 (4 Fillers*)	10.7	100	2000 / 4000 / 6000 / 8000	AT-[][][]25CT-024-Glass
36	3 (12F)	1+6 (3 Fillers*)	10.7	100	2000 / 4000 / 6000 / 8000	AT-[][][]25CT-036-Glass
48	4 (12F)	1+6 (2 Fillers*)	10.7	100	2000 / 4000 / 6000 / 8000	AT-[][][]25CT-048-Glass
60	5 (12F)	1+6 (1 Filler*)	10.7	100	2000 / 4000 / 6000 / 8000	AT-[][][]25CT-060-Glass
72	6 (12F)	1+6	10.7	100	2000 / 4000 / 6000 / 8000	AT-[][][]25CT-072-Glass

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.

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 DIELECTRIC ROBUST [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	Long term load	- No attenuation increase* - No fibre strain	Load: 750 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.33%	Load: 1.5 x W <i>W is the weight of the cable in N</i>
Crush Performance: IEC 60794-1-21-E3A	Long term load	- No attenuation increase*	Load (Plate / Plate): 500 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 1500 N
Bending Performance: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 10xD
	During installation (under Load)	- No changes in attenuation before versus after load	Bend radius: 20xD <i>D is the diameter of the cable</i>
Temperatures: IEC 60794-1-22-F1	Operation	- No attenuation increase*	-30 to +70°C
	Installation		-15 to +60°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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	1050 mm	790 mm	260 kg	280 kg
4000 m	1450 mm	790 mm	510 kg	550 kg
6000 m	1600 mm	1055 mm	730 kg	790 kg
8000 m	1600 mm	1055 mm	930 kg	990 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.

OFS reserves the right to improve, enhance and modify the features and specifications of OFS 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.ofsoptics.com>.

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