

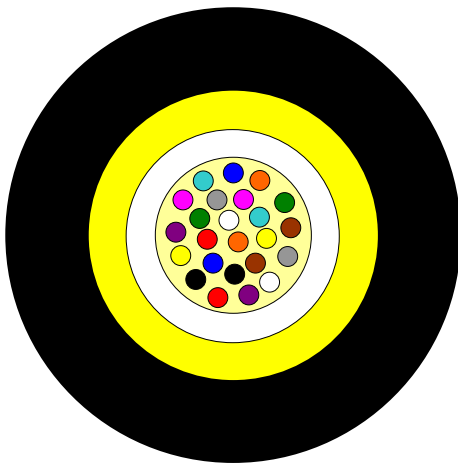
Optical FTTx Drop Cable

All Dielectric Design

MiDia® Monotube



Issue June 2019
according to **OFS Generic Specification**



Application

Customer drop cable for air-blown installation into Micro ducts (5/8 mm)

Design

- Optical Fibres (2 – 24)
(AllWave® FLEX Fibre G.657.A1
AllWave® FLEX + Fibre G.657.A2)
- Gel-filled Central Loose Tube
- Tensile Strength Elements
- PE-Jacket or PA-Jacket

Features

- All Dielectric Cable
- Easy Fibre Access
- Light Weight

Version illustrated is the 24 Fibre Cable

Fibre Count	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code*
2	3.4	10	2000 / 4000 / 6000	AT-[][][]yXD2-002
6	3.4	10	2000 / 4000 / 6000	AT-[][][]yXD6-006
12	3.4	10	2000 / 4000 / 6000	AT-[][][]yXDT-012
24	3.4	10	2000 / 4000 / 6000	AT-[][][]yXDF-024

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

* Please refer to the OFS AT- Code and Cable Ordering Information. The blanks specify the fibre type.

y: 7 = PE Monotube

y: 8 = PA Monotube

Sheath Marking

OFS OPTICAL CABLE MIDIA MONOTUBE [PE or PA] [ID] [MM/YYYY] XXXF [Meter Marking]

Alternative sheath printing available on request.

In case of order the exact sheath printing text will be clarified with the customer.

Identification

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	Natural	21	Yellow*	22	Violet*	23	Rose*	24	Aqua*

* Fibre with black marking

The tube is natural coloured. Alternative fibre colour code 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: 2 – 10 Fibre: 50 N 12 – 20 Fibre: 50 N 24 Fibre: 50 N
	Short term load, during installation	- No changes in attenuation before versus after load* - Max. fibre strain 0.6%	Load: 2 – 10 Fibre: 140 N 12 – 20 Fibre: 250 N 24 Fibre: 400 N
Crush Performance: IEC 60794-1-21-E3A	Short term load	- No changes in attenuation before versus after load* - No damage**	Load: 500 N
Cable Bending: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 20 mm
	During installation (under load)	- No changes in attenuation before versus after load*	Bend radius: 30 mm
Temperatures: IEC 60794-1-22-F1 IEC 60794-5-10	Operation	- No attenuation increase***	-20 to +70°C
	Installation		-5 to +40°C
	Storage/Shipping		-30 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 Plastic Reel

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.) Without lagging
	Diameter	Width	
2000 m	800 mm	540 mm	40 kg
4000 m	800 mm	540 mm	60 kg
Max 6000 m	800 mm	540 mm	80 kg

Shipping Information Light Weight Wooden Reel

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.) Without lagging
	Diameter	Width	
2000 m	800 mm	540 mm	35 kg
4000 m	800 mm	540 mm	60 kg
Max 6000 m	800 mm	540 mm	80 kg

The shipping information are given for one-way reels. Reusable reels are available on request.

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Cable Ordering Information

Example: AT-5EE7XDF-024¹

Fibre² Sheath Core Fibre Count

Part Number: AT-S1 S2 SF S3 S4 S5 S6- NNN

Fibre Type	Fibre	Fibre	Fibre	Fibre	Average	Maximum
Single-Mode Fibre	(S1)	(S2)	(SF)	Standards	Wavelengths (nm)	Attenuation (dB/km)
AllWave®FLEX ZWP	5	E	E	G.652.D/G.657.A1	1310/1385/1550/1625	0.36/0.31/0.25/0.27
AllWave®FLEX + ZWP	7	E	E	G.652.D/G.657.A2	1310/1385/1550/1625	0.36/0.31/0.25/0.27

S3= Sheath Construction

7= PE Monotube

8= PA Monotube

S4= Tensile Load

X= Specific

S5= Core Type

D= Dielectric Drop Cable

S6= Fibres per Tube

F= 24 Fibres

T= 12 Fibres

N= 10 Fibres

8= 8 Fibres ...

X= Specific

NNN = Fibre Count

¹ Part Number shown is for MiDia Monotube PE with 250 µm Single Mode AllWave® FLEX ZWP Fibres. All-Dielectric drop cable with 24 fibres.

² Contact OFS sales representative for information on other cable variations, including additional fibre types, composite cables and attenuation.

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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