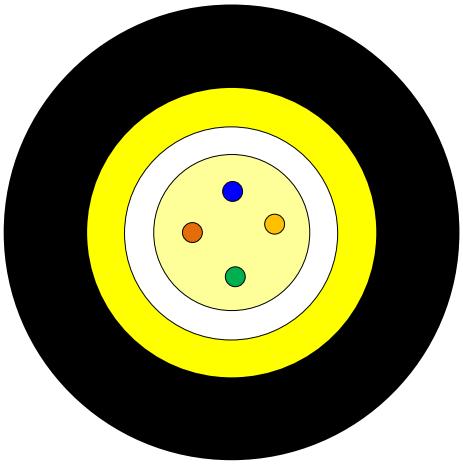
Optical FTTx Drop Cable

All Dielectric Design

MiDia® Monotube

Issue January 2021
according to **OFS Generic Specification**



Application

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

Design

- Optical Fibres 4
  (AllWave® FLEX Fibre G.657.A1)
- Gel-filled Central Loose Tube
- Tensile Strength Elements
- PE-Jacket

Features

- All Dielectric Cable
- Easy Fibre Access
- Light Weight

Fibre Count	AllWave® Flex Fibres G.657.A1
	AT-Code*
4	AT-5EE7XD4-004

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

Cable Diameter (calc.): **3.4 mm**
Cable Weight (calc.): **10 kg/km**

Sheath Marking

OFS OPTICAL CABLE MIDIA MONOTUBE [PE] [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

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

*** 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

Fibre[1] AllWave® Flex Fibres G.657.A1 and AllWave®Flex + G.657.A2
Fibre[2] AllWave® + Fiber G.652.D/G.657.A1

Shipping Information Plastic Reel

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)
	Diameter	Width	Without lagging
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.)
	Diameter	Width	Without lagging
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-024**[1]

Fibre[2] 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	Wavelenghts (nm)	Attenuation (dB/km)	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
AllWave® + ZWP	3	C	E	G.652.D/G.657.A1	1310/1385/1550/1625		0.35/0.31/0.25/0.27

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.
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