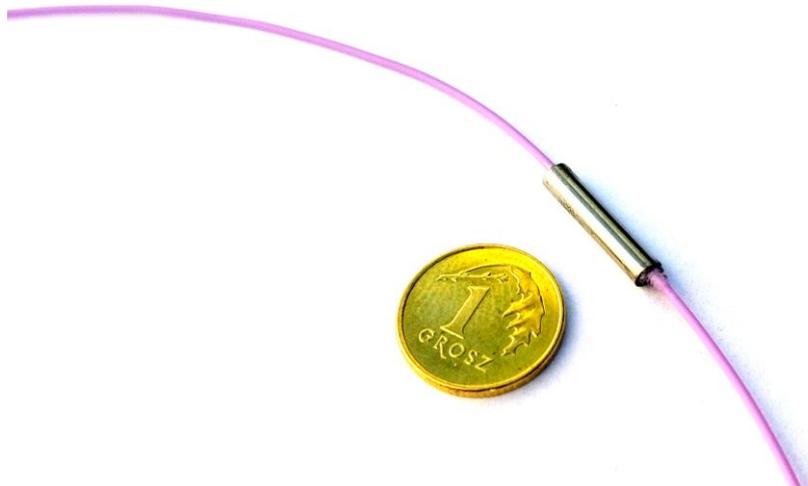


## Passive Optical Network

### FIBRAIN CATV BLOCKING FILTER

Fibrain optical CATV blocking filters are used to block TV signal with parallel transmission of GPON network at the 1310/1490 nm wavelengths. The product is available in two variants: in a miniaturized pipe housing and in the form of a patchcord thanks to the placement of microfilter inside the SC or LC connector. In contrast to alternative solutions, filter provides suppression of blocked power which not flow back to transmitter and not pose the risk of introducing additional noise and degrading signal quality, often resulting in transmission interference.



#### APPLICATION FIELDS:

- ✓ FTTH access networks
- ✓ HFC and cable networks
- ✓ Other optical telecommunication networks

#### FEATURES AND ADVANTAGES:

- ✓ Low Insertion loss
- ✓ Available with any type of fiber optic connectors
- ✓ Two variants of execution available: miniaturized pipe housing with dimensions of Ø3x15mm and patchcord with built-in filter in SC or LC connector.

#### TECHNICAL SPECIFICATION:

Parameter	Unit	Value
Transmitted signal bandwidth	nm	1260-1500
Blocked signal bandwidth	nm	1540-1650
Insertion loss <sup>1</sup>	dB	0.9
Attenuation of blocked band	dB	≥ 25
PMD	dB	< 0.1
Return loss	dB	≥ 42
Storage temperature	°C	-20 - +70 °C
Operating temperature	°C	-20 - +70 °C
Fiber type <sup>2</sup>		G.652D

<sup>1</sup> with optical connector

<sup>2</sup> possibility of ordering a different type of fiber

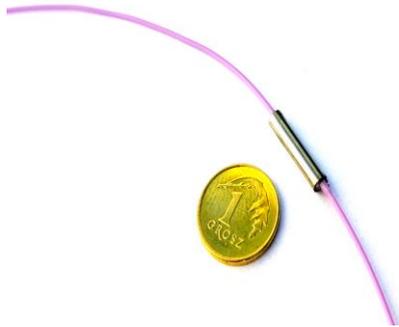
Type:	Fibrain CATV Blocking Filter	REV: 1.0
Date:	25/05/2021	MD
Modification:		
Reference:	FWDM-, see ref. system below	

## Passive Optical Network

### AVAILABLE HOUSING:

Variant of execution	Filter housing	Cable diameter
Metal pipe	Pipe Ø3x15mm	0.9 mm
Patchcord <sup>1</sup>	SC type connector	2.0 mm
	LC type connector	

<sup>1</sup> filter housing in the form of SC (SC APC, SC UPC) or LC (LC APC, LC UPC) connector type is coded in reference system as a input connector



CATV blocking filter in pipe housing



Patchcord 2.0 mm with built-in filter in SC APC connector

### ORDERING INFORMATION:

Series	Quality	Fiber type	Split ratio	Fiber length	Wavelength	Cable	Housing type	Input connector	Output connector
FWDM	G0	1 - G.652D	11 - 1x1	05 – 0.5 m	3149 - 1310/1490	20 – 2.0 mm	1 – pipe 3x15	SCA	SCA
				10 – 1 m		90 – 900 µm	P – patchcord	SC	SC
								LCA	LCA
								LC	LC
								E2A	E2A
								E20	E20
						XX	XX		

Examples of references:

**FWDM-G0-1-11-10-3149-90-1-SCA-SCA** – Fibrain CATV blocking filter, G.652D, pipe housing Ø3x15 mm, operating wavelength 1310/1490, cable 900 µm 1 m, SC/APC connectors.

**FWDM-G0-1-11-10-3149-20-P-SCA-SCA** – Fibrain CATV blocking filter, G.652D, in a patchcord form, operating wavelength 1310/1490, cable 2.0 mm 1 m, SC/APC connectors.

#### Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.