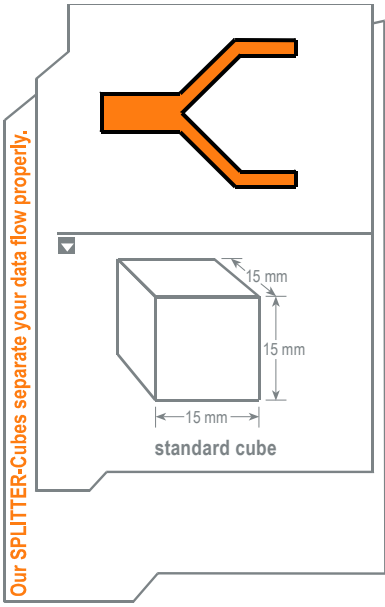
SPLITTER-Cubes

PLC Splitter for PON Applications
> 1XN

Features

- 1xN splitter based on planar lightwave circuit (PLC) technology
- Divides single optical input power into multiple optical outputs (power splitter)
- Superior optical performance such as low insertion loss and low polarization dependent loss
- Wide operating wavelength and wide operating temperature
- High reliability and stability, Telecordia GR-1221/1209 compliant
- Compact design, fanout and connectors available
- Premium specifications available upon request



Applications

- FTTX Deployments
- PON Networks
- CATV Links
- Optical Signal Distribution

Specifications

Parameter									
Ports		1x2	1x4	1x6	1x8	1x12	1x16	1x32	1x64
Operating Wavelength		1260 ~ 1625 nm							
Insertion Loss (at 23 °C) [1)]	Max.	3.5 dB	6.8 dB	9.3 dB	10.1 dB	12.3 dB	13.2 dB	16.7 dB	20.2 dB
Insertion Loss (-40~85 °C) [2) 3)]	Max.	3.7 dB	7.1 dB	9.6 dB	10.4 dB	12.6 dB	13.5 dB	17.0 dB	20.5 dB
Channel Uniformity	Max.	0.6 dB	0.6 dB	1.0 dB	1.0 dB	1.1 dB	1.1 dB	1.5 dB	1.8 dB
Polarization Dependent Loss	Max.	0.2 dB	0.2 dB	0.3 dB	0.2 dB	0.3 dB	0.3 dB	0.3 dB	0.3 dB
Return Loss		>50 dB							
Directivity		>55 dB							
Max. optical Power		300 mW							
Operating Temperature		-40~85 °C							
Storage Temperature		-40~85 °C							
Package Dimensions (WxHxL)									
- Tube (+fan-out)	mm	4x4x40	4x4x40	4x4x40	4x4x40	5x4x45	5x4x45	7x4x60	12x4x60
- Small size box	mm	7x4x60	7x4x60	7x4x60	7x4x60	19x6x100	19x6x100	19x6x100	40x6x120
- Cassette	mm	100x80x10	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	120x80x18	141x115x18

[1)] Typical value

[2)] Valid over full temperature range and all states of polarization but without connectors losses.

[3)] Premium spec available upon request

Cube Optics AG

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Ordering Information

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No. of ports	code
1x2	102
1x4	104
1x8	108
1x6	106
1x12	112
1x16	116
1x32	132
1x64	164
2x4	204
2x8	208
2x16	216
2x32	232

Input fiber length	code
0.5 m	A
1.0 m	B
1.5 m	C
2.0 m	D

Grade	code
Standard	S

Housing	code
Tube (+fan-out)	T
Small size box	B
Cassette	C

Input fiber type	code
Corning SMF-28™ (9,125,250 µm) 900 µm loose tube	1
Corning SMF-28™ (9,125,250 µm) 250 µm coating	2
Corning SMF-28™ 2.0 mm cable	A

Output fiber length	code
Box, cassette:	
0.5m	0A
1.0m	0B
1.5m	0C
2.0m	0D
Tube with fan-out:	
0.5m ribbon / 0.5m 900µm	AA
0.5m ribbon / 1.0m 900 µm	AB
1.0m ribbon / 0.5m 900µm	BA
1.0m ribbon / 1.0m 900µm	BB
Tube, ribbon fiber only:	
0.5m ribbon	A0
1.0m ribbon	B0
1.5m ribbon	C0
2.0m ribbon	D0

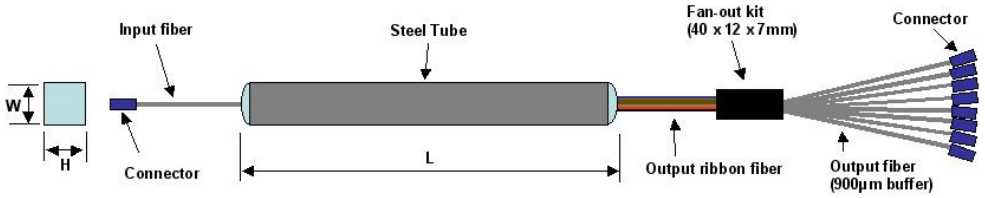
Output fiber type	code
Corning SMF-28™ (9,125,250 µm) 900 µm loose tube	1
Corning SMF-28™ (9,125,250 µm) 250 µm coating	2
Corning SMF-28™ 2.0 mm cable (only for cassette type)	A

Connector in/out	code
none	0
SC/PC	1
SC/APC**	3
LC/PC	5
MU/PC	6
E2000	7
E2000/HRL**	8
LC/APC	B

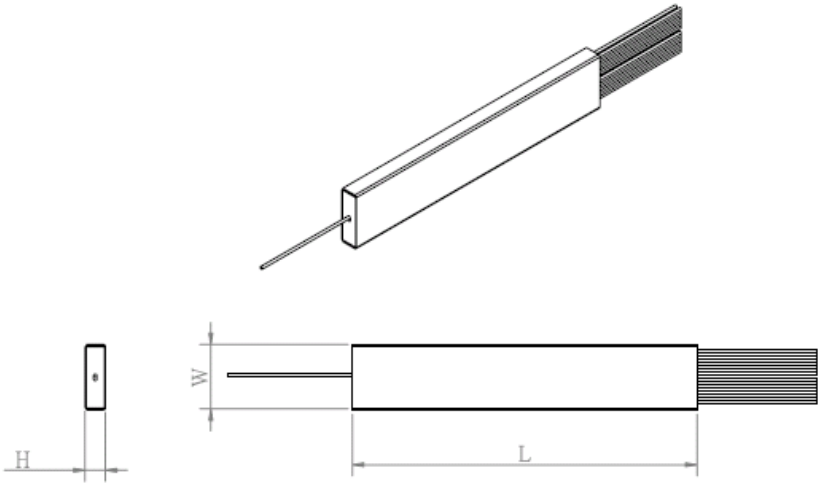
** 8° angular polishing

Dimensions

Tube (+ fan-out)



Small size box



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