

Mini Type PLC Splitter Technical Specification

Version: V1.2

Version	Upgrading Reason	Date	Maker	
V1.0	1 st . version	3 rd .02.2018	Yaojie Zhao	
V1.2	Parameter updated	15 th .08.2018	Yaojie Zhao	

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1 Description

SINDi PLC splitter is based on silicon dioxide waveguides, which is used to connect main equipment and terminal equipment in EPON, BPON and GPON network.

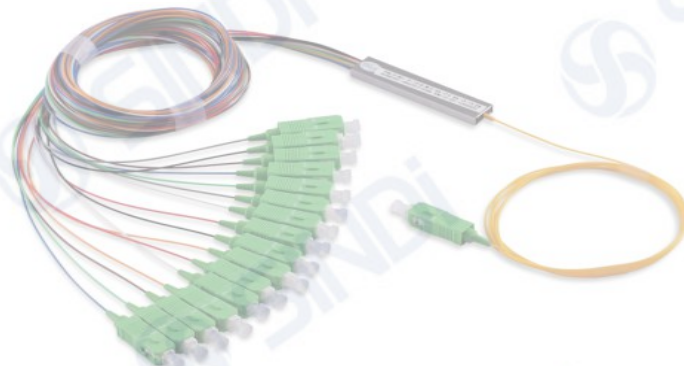
2 Feature

- Qualified with CE certificate and ROHS certificate.
- Comply with GR-1209-CORE, GR-1221-CORE, YD/T 2000.1-2014 and IEC criterion.

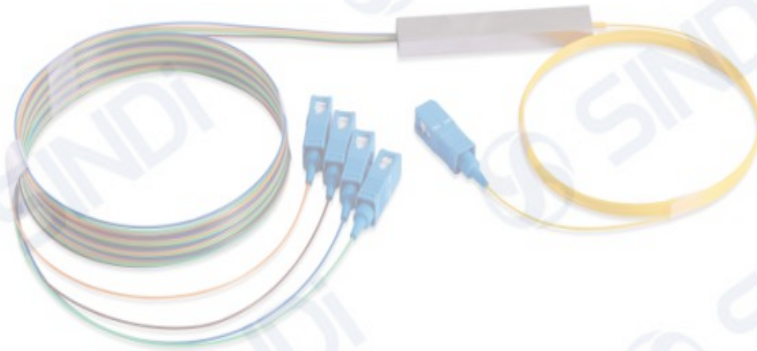
3 Structure



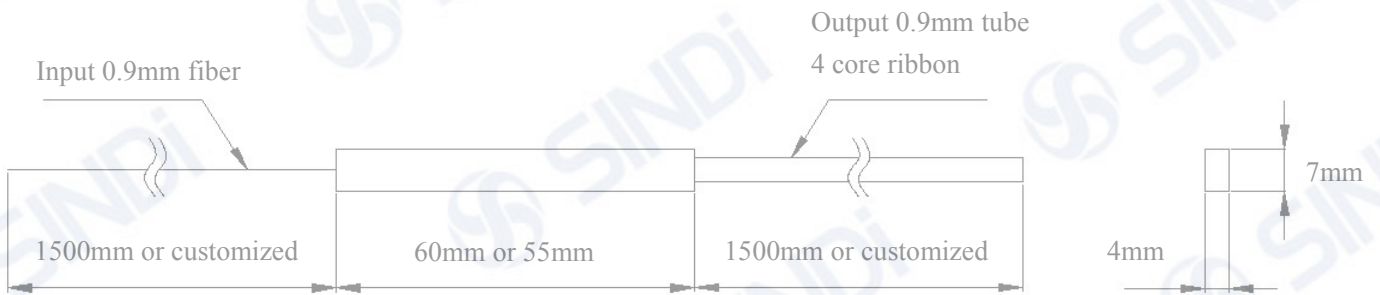
P 1 1X8 Mini PLC splitter (FC/UPC)



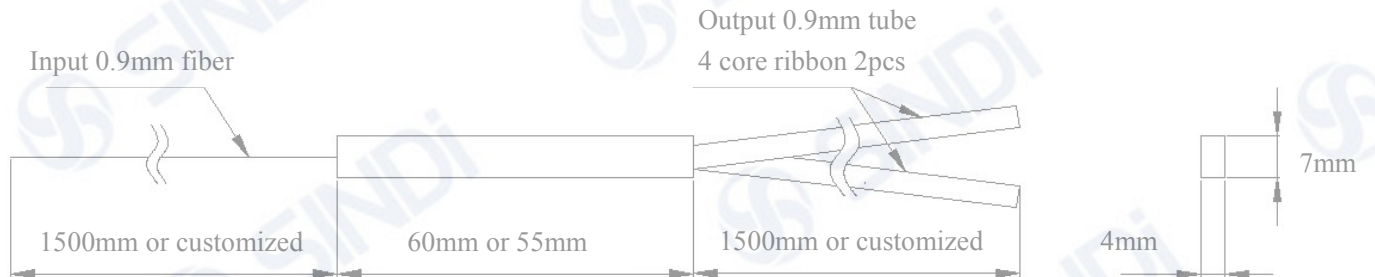
P 2 1X16 Mini PLC splitter (SC/APC)



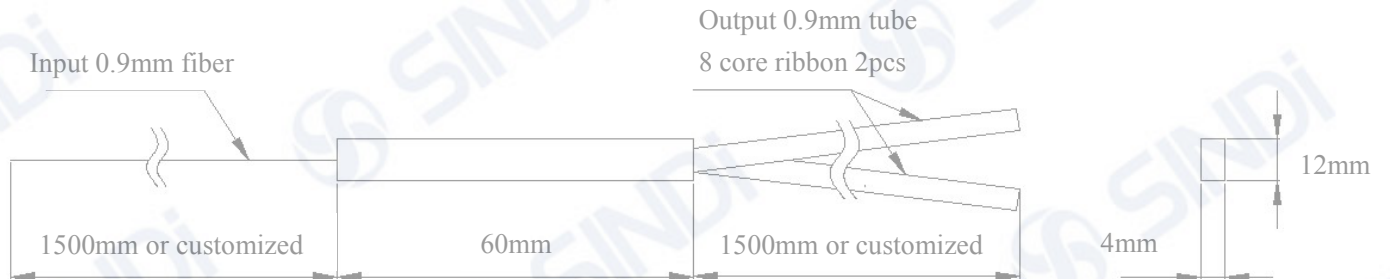
P 3 1X4 Mini PLC splitter (SC/UPC)



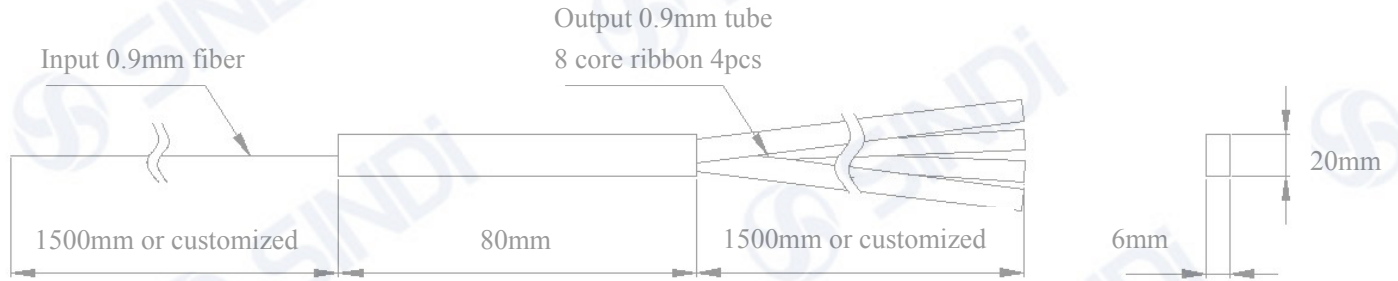
P 4 1X4 Mini PLC splitter without connector



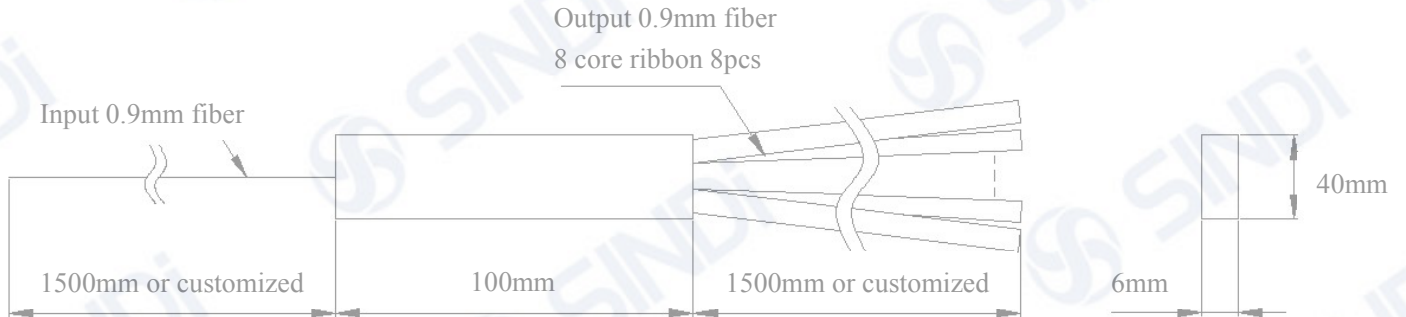
P 5 1X8 Mini PLC splitter without connector



P 6 1X16Mini PLC splitter without connector



P 7 1X32 Mini PLC splitter without connector



P 8 1X64 Mini PLC splitter without connector

Housing size, tube type:

T3.1 Mini PLC Splitter housing size and tube type

	nx2, nx4, nx8		1x16	2x16, nx32	nx64	Tube type
L(mm)	55	60	60	80	100	Diameter: Φ 0.9mm or customized
W(mm)	7	7	12	20	40	Material: Hytel, LSZH or customized
H(mm)	4	4	4	6	6	Color: blue, orange, green, brown, grey, white, red, black, or customized

4 Optical Parameter

T 4.1 1×N (N≥2) PLC Splitter (with connector) optical parameter

Parameter		1X2	1x4	1x8	1x16	1x32	1x64
Wavelength (nm)		1260 ~ 1650					
IL (dB)		≤4.1	≤7.4	≤10.5	≤13.8	≤17.1	≤20.4
Uniformity (dB)		≤0.6	≤0.7	≤0.8	≤1.0	≤1.5	≤2.0
RL (dB)		≥50(PC); ≥55(APC)					
PDL (dB)		≤0.15	≤0.2	≤0.2	≤0.3	≤0.3	≤0.3
Directivity (dB)		≥55	≥55	≥55	≥55	≥55	≥55
Environment	Operating temp(°C)	-40~85°C					
	Storage temp(°C)	-40~85°C					
	Humidity	≤95% (+40°C)					
	Atmospheric pressure	62~106kPa					
Fiber		SM G657A or customized					
Connector		SC, FC, LC					
Pigtail (mm)		1000, 1500, 2000 or customized					

Remark: (1) Test in room temperature with connector.

(2) RL ≥55dB without connector

T 4.2 2×N (N≥2) PLC Splitter (with connector) optical parameter

Parameter		2X2	2x4	2x8	2x16	2x32	2x64
Wavelength (nm)		1260 ~ 1650					
IL (dB)		≤4.4	≤7.7	≤10.8	≤14.1	≤17.4	≤20.7
Uniformity (dB)		≤0.8	≤1.0	≤1.0	≤1.5	≤1.8	≤2.0
RL (dB)		≥50(PC); ≥55(APC)					
PDL (dB)		≤0.2	≤0.2	≤0.3	≤0.3	≤0.3	≤0.4
Directivity (dB)		≥55	≥55	≥55	≥55	≥55	≥55
Environment	Operating temp(°C)	-40~85°C					
	Storage temp(°C)	-40~85°C					
	Humidity	≤95% (+40°C)					
	Atmospheric pressure	62~106kPa					
Fiber		SM G657A or customized					
Connector		SC, FC, LC					
Pigtail (mm)		1000, 1500, 2000 or customized					

Remark: (1) Test in room temperature with connector.

(2) RL \geq 55dB without connector

5 Order confirmation

- Housing size.
- Tube diameter, material, color.
- Parameter(IL, RL and etc).
- Fiber.
- Connector
- Pigtail length
- Number mark for input and output.