

# Splitter Series

# PLC

PLC Splitters are based on planar optical waveguide technology. They offer low insertion and polarization loss, and high channel uniformity.



## Product Structure



### Steel-edge splitter dimensions:

Specifications	1:2	1:4	1:8	1:16	1:32	1:64	2:2	2:4	2:8	2:16	2:32	2:64
L (mm)		40		50	60		40		50	60		
W (mm)		4		7	12		4		7	12		
H (mm)		4		4	4		4		4	4		

### Micro splitter dimensions:

Specifications	1:2	1:4	1:8	1:16	1:32	1:64	2:2	2:4	2:8	2:16	2:32	2:64
L (mm)		60		60	80	100		60		60	80	80
W (mm)		7		12	20	40		7		12	20	40
H (mm)		4		4	6	6		4		4	6	6

**ABS cassette splitter dimensions:**

Specifications	1:2	1:4	1:8	1:16	1:32	1:64	2:2	2:4	2:8	2:16	2:32	2:64
L (mm)	100		120		140	100			120		140	
W (mm)	80		80		80	80			80		80	
H (mm)	10		18		29	100			120		120	

**LGX splitter dimensions :**

Specifications	1:2	1:4	1:8	1:16	1:32	1:64	2:2	2:4	2:8	2:16	2:32	2:64
L (mm)	130		130		130	130	130			130	130	130
W (mm)	100		100		100	100	100			100	100	100
H (mm)	25		50		102	206	25			50	102	206

**Tray splitter dimensions:**

Specifications	1:2	1:4	1:8	1:16	1:32	1:64	2:2	2:4	2:8	2:16	2:32	2:64
L (mm)	302			302		302	302				302	302
W (mm)	180			180		180	180				180	180
H (mm)	25			50		100	25				50	100

**Rack-mounted splitter dimensions:**

Specifications	1:2	1:4	1:8	1:16	1:32	1:64	2:2	2:4	2:8	2:16	2:32	2:64
L (mm)	483			483		483	483				483	
W (mm)	200			200		200	200				200	
H (mm)	44.5			89		89	44.5				89	



## Standards Compliance

- Compliant with Telcordia GR-1209-CORE Issue 4, Telcordia GR-1221-CORE Issue 3, YD/T2000.1-2009, and RoHS standards.



## Product Features

- Small size, compact structure, low insertion and polarization loss, and even power distribution.
- SC/LC/FC connectors are available; other connectors can be customized.



## Product Parameters

### 1 × N splitter specifications:

Item	Unit	Specifications						
Split Ratio	/	1:2	1:4	1:8	1:16	1:32	1:64	
Operating Wavelength	nm	1260 - 1650						
Insertion Loss	Typical	dB	≤ 3.6	≤ 7.0	≤ 10.3	≤ 13.6	≤ 16.6	≤ 20.1
	Maximum	dB	≤ 4.0	≤ 7.4	≤ 10.5	≤ 13.7	≤ 16.9	≤ 20.4
Insertion Loss Uniformity (Max.)	dB	0.8	0.8	0.8	1.0	1.5	2.0	
Polarization Loss (Max.)	dB	0.2	0.3	0.3	0.3	0.3	0.4	
Return Loss	dB	For APC ≥ 55/ for UPC ≥ 50						
Directivity	dB	≥ 55						
Fibre Type	/	G652D, G657A or customized						
Operating Temperature	°C	-40 to 85						
Storage Temperature	°C	-40 to 85						
Connector Type	/	SC, FC, LC						
Packing Type		Steel-, mini-, modular-, insert-, and rack-based						

### 2 × N splitter specifications:

Item	Unit	Specifications						
Split Ratio	/	2:2	2:4	2:8	2:16	2:32	2:64	
Operating Wavelength	nm	1260 - 1650						
Insertion Loss	Typical	dB	≤ 4.2	≤ 7.2	≤ 10.6	≤ 13.8	≤ 17.0	≤ 20.5
	Maximum	dB	≤ 4.5	≤ 7.6	≤ 11.0	≤ 14.8	≤ 17.9	≤ 21.5
Insertion Loss Uniformity (Max.)	dB	0.8	0.8	1.0	1.2	1.8	2.5	
Polarization Loss (Max.)	dB	0.3	0.3	0.3	0.3	0.3	0.4	
Return Loss	dB	For APC ≥ 55/ for UPC ≥ 50						
Directivity	dB	≥ 55						
Fibre Type	/	G652D, G657A or customized						
Operating Temperature	°C	-40 to 85						
Storage Temperature	°C	-40 to 85						
Connector Type	/	SC, FC, LC						
Packing Type		Steel-, mini-, modular-, insert-, and rack-based						



## Order Guide

P=PLC	1002=1:2	M=Micro Splitter	F=With Connector	SU=SC/UPC	25=0.25 mm Bare Fibre	05=0.5 m
F=FBT	1004=1:4	B=ABS Cassette Splitter	N=Without Connector	SA=SC/APC	09=0.9 mm Loose Tube	10=1.0 m
--	1008=1:8	P=LGX Splitter	A=Adapter	FU=FC/UPC	20=2.0 mm Loose Tube	15=1.5 m
--	1016=1:16	T=Tray Splitter	--	FA=FC/APC	30=3.0 mm Loose Tube	20=2.0 m
--	1032=1:32	R=Rack-mounted Splitter	--	LU=LC/UPC	--	XX=Customized
--	1064=1:64	--	--	LA=LC/APC	--	--
--	2002=2:2	--	--	--	--	--
--	2004=2:4	--	--	--	--	--
--	2008=2:8	--	--	--	--	--
--	2016=2:16	--	--	--	--	--
--	2032=2:32	--	--	--	--	--
--	2064=2:64	--	--	--	--	--

Product Number=Y-Production\_Process-Split\_Ratio-Package\_Type-Termination\_Mode-Connector\_Type-Pigtail\_Mode-Input\_Pigtail\_Length-Output\_Pigtail\_Length

For example, PN: Y-P-1008-B-F-SU-20-10-20

stands for PLC with 1:8 split ratio and cassette type, pigtail-terminated, with an SC/UPC connector, 2.0 mm loose tube for the pigtail, 1.0 m input pigtail and 2.0 m output pigtail.