PASSIVE OPTICS

Planar Lightwave Circuit (PLC) Splitter
1x4, 1x8, 1x12, 1x16, 1x24, 1x32, 1x64

FEATURES:

- Low Insertion Loss
- Low Polarization Dependent Loss
- Exceptionally Stable and Reliable
- Telcordia GR-1209 & GR-1221 Compliant
- Excellent Uniformity
- Compact

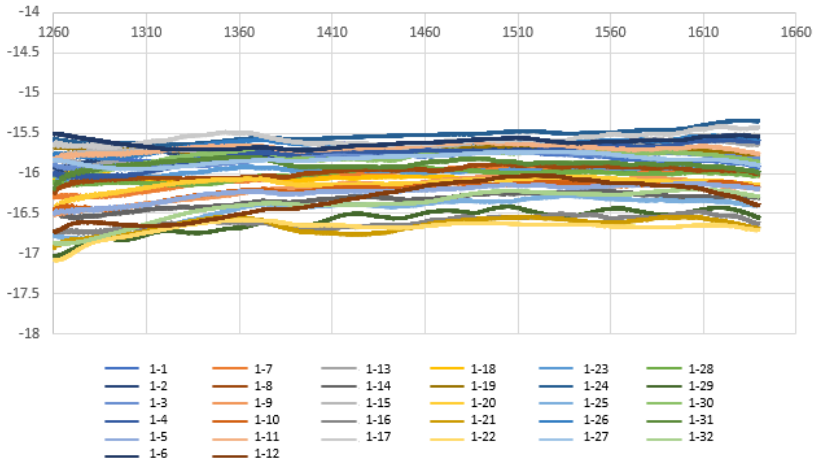
APPLICATIONS:

- G-PON, XGS-PON, NG-PON2, 25G-PON, & 50G-PON
- Active Ethernet
- Fiber-to-the-Premise
- Fiber-to-the-Home

DESCRIPTION:

Go!Foton's PLC Splitters provide high performance with very low insertion loss, excellent uniformity and temperature stability, and low PDL. They are designed for demanding requirements over a wide operating wavelength range (1260 ~ 1650nm) and are GR-1209-CORE, GR-1221-CORE specification compliant. The splitters are pigtailed with Bend-Insensitive Single Mode fiber (Bend Radius ≤ 15mm) to achieve a robust, compact package that is durable for field handling. The splitters are available in x4, x8, x16, x32 and x64 configurations with a variety of connector choices.

Wavelength Spectrum:



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SPECIFICATIONS:

The products supplied to this specification meet or exceed all the requirements specified herein.

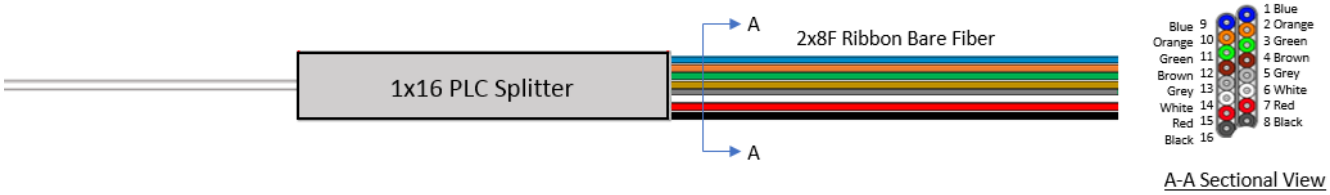
A. OPTICAL AND ELECTRICAL CHARACTERISTICS

Parameter		Unit	1x2	1x4	1x8	1x12	1x16	1x24	1x32	1x64
Operating Wavelength		nm	1260~1620							
Coupling Ratio		nm	Even							
Insertion Loss		nm	≤3.9	≤7.4	≤10.9	≤13.2	≤14.1	≤16.4	≤17.4	≤20.4
Uniformity		nm	≤0.8	≤1.0	≤1.0	≤1.0	≤1.0	≤1.4	≤1.4	≤1.7
Polarization Dependent Loss		dB	≤0.2		≤0.3					
Wavelength Dependent Loss		dB	≤0.3							
Optical Return Loss		dB	≥50							
Directivity		dB	≥ 50							
Optical Power Handling		mW	≤ 300							
Operating Temperature Range		°C	-40~85							
Storage Temperature Range		°C	-40~85							
Fiber Type		-	ITU G657.A2 Compliant Single Mode Fiber							
Package Size	Blockless	mm	40x4x4					50x7x4	60x12x4	
	Mini		55x7x4				60x12x4	80x20x6	100x40x6	
	Box (ABS)		100x80x10						120x80x16	
	Enclosure		158x130x28.8					158x130x57.6	1RU 482.6 x257.0 x 43.7	

Notes:

1. All specifications include connector losses.
2. Uniformity is defined as the loss difference between all output ports.
3. Other package size available upon request.

Ribbon Fiber Color Code:



A-A Sectional View

Note: 1x16: 2sets of 8 fiber ribbons
1x32: 4sets of 8 fiber ribbons
1x64: 8sets of 8 fiber ribbons

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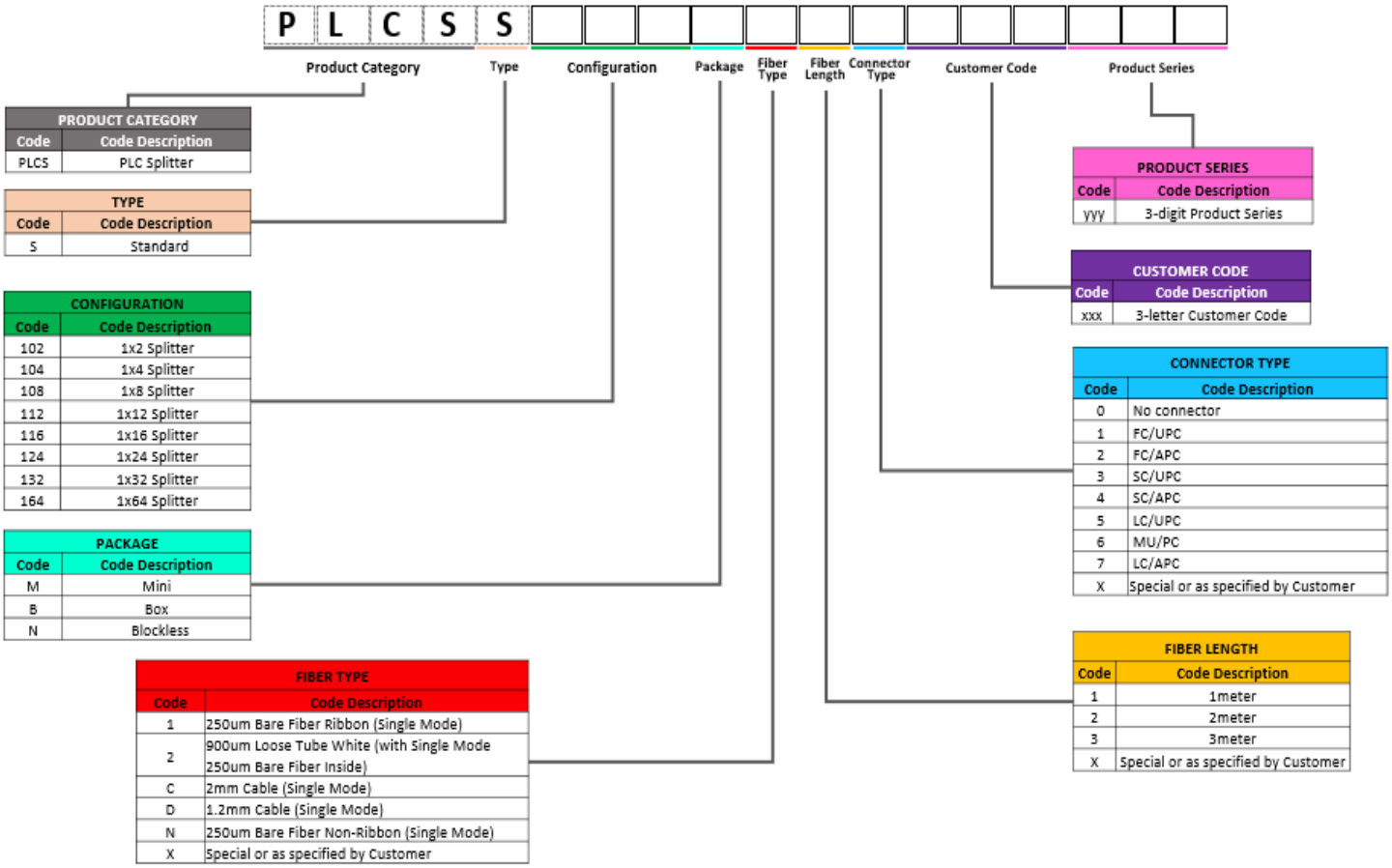
Ordering Information:

PLC in Blockless, Mini, and Box Configurations



PRODUCT CATEGORY	
Code	Code Description
PLCS	PLC Splitter

TYPE	
Code	Code Description
S	Standard

CONFIGURATION	
Code	Code Description
102	1x2 Splitter
104	1x4 Splitter
108	1x8 Splitter
112	1x12 Splitter
116	1x16 Splitter
124	1x24 Splitter
132	1x32 Splitter
164	1x64 Splitter

PACKAGE	
Code	Code Description
M	Mini
B	Box
N	Blockless

FIBER TYPE	
Code	Code Description
1	250um Bare Fiber Ribbon (Single Mode)
2	900um Loose Tube White (with Single Mode 250um Bare Fiber Inside)
C	2mm Cable (Single Mode)
D	1.2mm Cable (Single Mode)
N	250um Bare Fiber Non-Ribbon (Single Mode)
X	Special or as specified by Customer

PRODUCT SERIES	
Code	Code Description
yyy	3-digit Product Series

CUSTOMER CODE	
Code	Code Description
xxx	3-letter Customer Code

CONNECTOR TYPE	
Code	Code Description
0	No connector
1	FC/UPC
2	FC/APC
3	SC/UPC
4	SC/APC
5	LC/UPC
6	MU/PC
7	LC/APC
X	Special or as specified by Customer

FIBER LENGTH	
Code	Code Description
1	1meter
2	2meter
3	3meter
X	Special or as specified by Customer

Notes:

[1] Standard Fiber Type is ITU-T G657.A2/B2.

[2] Standard Fiber length tolerance is ±0.1meter.

[3] All ports are with connector of the same type.

[4] Only applicable for products which are not covered by the Standard Specification.

Example: PLCSS108M210

1x8 Standard PLC Splitter, Mini, 900um Loose Tube, one (1) meter fiber length without connectors

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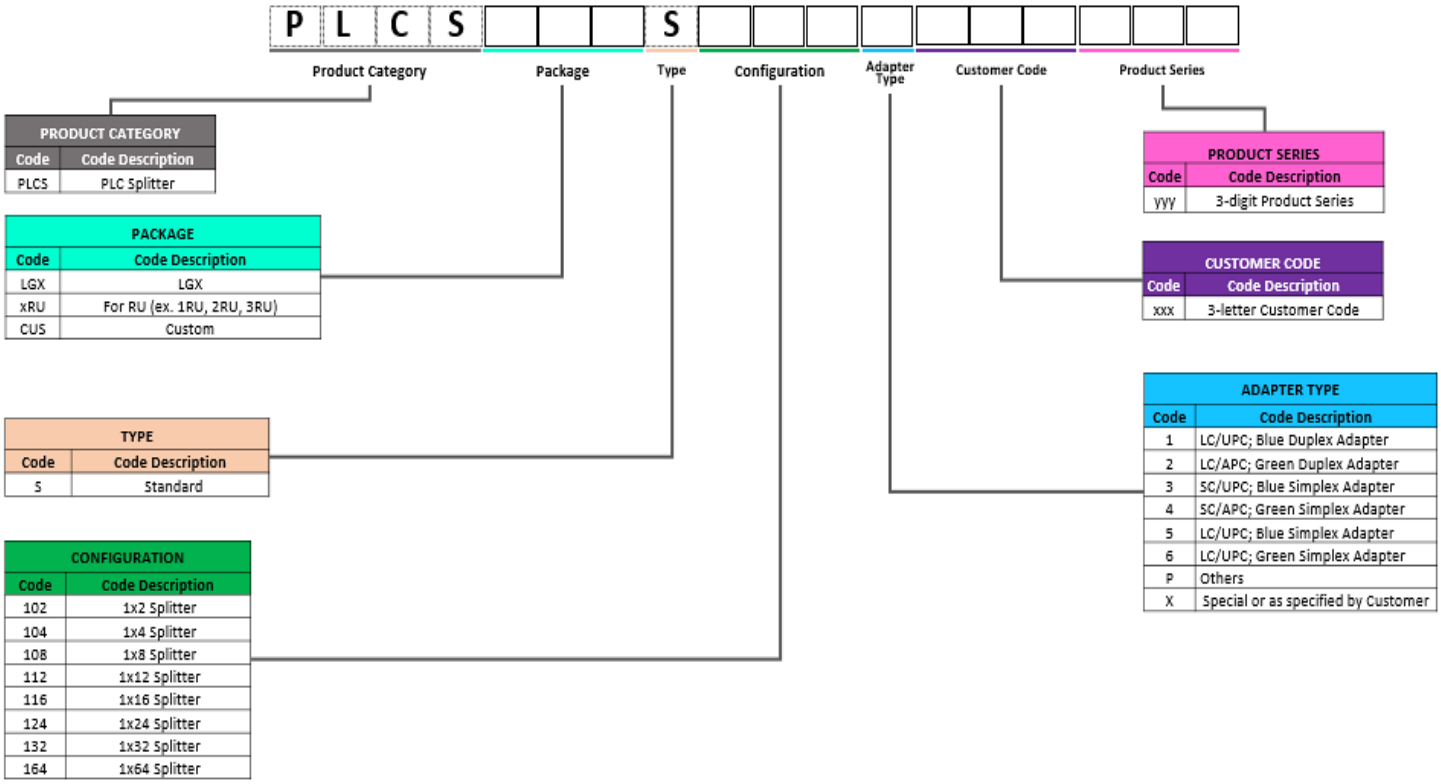
Ordering Information:

PLC in Enclosure Configurations



PRODUCT CATEGORY	
Code	Code Description
PLCS	PLC Splitter

PACKAGE	
Code	Code Description
LGX	LGX
xRU	For RU (ex. 1RU, 2RU, 3RU)
CUS	Custom

TYPE	
Code	Code Description
S	Standard

CONFIGURATION	
Code	Code Description
102	1x2 Splitter
104	1x4 Splitter
108	1x8 Splitter
112	1x12 Splitter
116	1x16 Splitter
124	1x24 Splitter
132	1x32 Splitter
164	1x64 Splitter

PRODUCT SERIES	
Code	Code Description
yyy	3-digit Product Series

CUSTOMER CODE	
Code	Code Description
xxx	3-letter Customer Code

ADAPTER TYPE	
Code	Code Description
1	LC/UPC; Blue Duplex Adapter
2	LC/APC; Green Duplex Adapter
3	SC/UPC; Blue Simplex Adapter
4	SC/APC; Green Simplex Adapter
5	LC/UPC; Blue Simplex Adapter
6	LC/UPC; Green Simplex Adapter
P	Others
X	Special or as specified by Customer

Notes:

[1] Standard Package Size is 1-slot for 1x4 and 1x8, 2-slot for 1x16, 3-slot for 1x32.

[2] All ports are with connector of the same type.

[3] Only applicable for products which are not covered by the Standard Specification.

Example: PLCSLGXS1082

1x8 Standard PLC Splitter in LGX with LC/APC Green Duplex Adapters

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