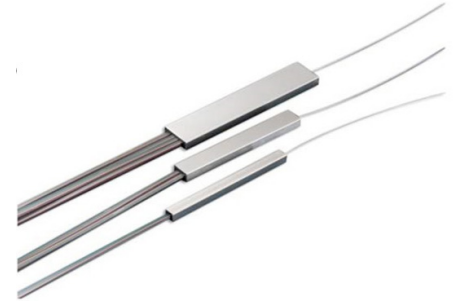


PLC Splitters



Features & Benefits

- Low insertion loss
- Ultra-broadband performance (1250-1650nm)
- Low Polarization Dependant Loss (PDL) and Polarization Mode Dispersion (PMD)
- One or two input channels and up to 64 output channels
- Ultra-small, suitable for all applications
- Available with all type of packages and connectors



Overview

PPC's Planar Lightwave Circuits (PLC) splitters are manufactured using silica glass waveguide circuits and extremely precise alignment of optic fibers in a small package. PLCs split or combine light from one or two incoming fibers to multiple outgoing fibers. PLC splitters perform uniformly over a wide spectral range, with ultra-low losses. They are also highly compact, reliable and available in a wide range of fiber and connector types. All PPC PLC splitters are fully compliant with the Telcordia GR-1209 & GR-1221 standard.

Technical Data

Optical Data

Specification	Value											
Operating wavelength	1250 ~ 1650nm											
Return loss	≥55dB											
Directivity	≥55dB											
Operating/storage temperature	-40 °C to 85 °C (-40 °F to 185 °F)											
Maximum input power	500mW											
Fiber type	SM G652D, G657a1, G657a2											
	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Insertion loss (dB)	3.8	7.0	10.4	13.6	17.0	20.4	4.2	7.6	10.8	14.0	17.5	21.0
Channel Uniformity (dB)	0.6	0.6	0.8	1.2	1.6	2.0	0.8	1.0	1.0	1.5	1.8	3.0
Polarization dep loss (dB)	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4
Wavelength dep loss (dB)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Temperature loss (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Connector loss (dB)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

PLC Splitters



Technical Data

Optical Data

Specification	Type		
	Basic	Integrated	Box
1:2 (H x W x L) mm	4 x 4 x 40	4 x 7 x 55	10 x 80 x 100
1:4 (H x W x L) mm	4 x 4 x 40	4 x 7 x 55	10 x 80 x 100
1:8 (H x W x L) mm	4 x 4 x 40	4 x 7 x 55	10 x 80 x 100
1:16 (H x W x L) mm	4 x 4 x 40	4 x 12 x 60	10 x 80 x 100
1:32 (H x W x L) mm	4 x 7 x 55	6 x 20 x 80	10 x 80 x 100
1:64 (H x W x L) mm	4 x 12 x 60	5 x 43 x 120	17 x 114 x 140
2:2 (H x W x L) mm	4 x 4 x 50	4 x 7 x 68	10 x 80 x 100
2:4 (H x W x L) mm	4 x 4 x 50	4 x 7 x 68	10 x 80 x 100
2:8 (H x W x L) mm	4 x 4 x 50	4 x 7 x 68	10 x 80 x 100
2:16 (H x W x L) mm	4 x 7 x 55	4 x 12 x 70	10 x 80 x 100
2:32 (H x W x L) mm	4 x 7 x 55	6 x 20 x 80	10 x 80 x 100
2:64 (H x W x L) mm	4 x 12 x 70	5 x 43 x 120	17 x 114 x 140

Environmental Data

Specification	Value
Operating temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Standard compliance	GR 1209, 1221
2011/65/EC RoHS	Fully compliant

PLC Splitters



Ordering Information

PLC 1 0 2 A 1 A 1 A S 1 5 1 5 S
1-3 4 5 6 7 8 9 10-11 12-13 14

1 TO 3 CONFIGURATION

102 = 1:2
 104 = 1:4
 108 = 1:8
 116 = 1:16
 132 = 1:32
 164 = 1:64
 202 = 2:2
 204 = 2:4
 208 = 2:8
 216 = 2:16
 232 = 2:32
 264 = 2:64

4 PACKAGE

A = INTEGRATED (900UM)
 B = BARE FIBER (250UM)
 C = ABS BOX (2 MM/1.6 MM)

5 CONNECTOR IN

1 = SC
 2 = LC
 3 = FC
 4 = ST
 BLANK = NO CONNECTOR

6 POLISH TYPE

A = APC
 U = UPC
 P = PC
 BLANK = NO CONNECTOR

7 CONNECTOR OUT

1 = SC
 2 = LC
 3 = FC
 4 = ST
 BLANK = NO CONNECTOR

8 POLISH TYPE

A = APC
 U = UPC
 P = PC
 BLANK = NO CONNECTOR

9 FIBER TYPE

S = 652D
 A = A 657A1- BIF 10 MM
 N = N 657A2- BIF 7.5 MM
 B = B 657B3- BIF 5 MM

10-11 LENGTH IN

05 = 0.5 M
 10 = 1.0 M
 15 = 1.5 M

12-13 LENGTH OUT

05 = 0.5 M
 10 = 1.0 M
 15 = 1.5 M

14 CATEGORY

S = STANDARD
 L = LITE