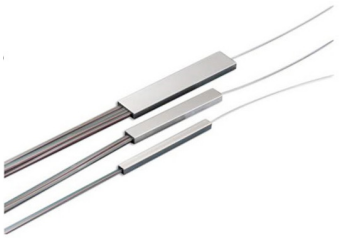
Fiber Optics
PLC Splitters

PPC
A BELDEN BRAND

Features and Benefits

- Low insertion loss
- Ultra-broadband performance (1250-1650nm)
- Low Polarization Dependant Loss (PDL) and Polarization Mode Dispersion (PMD)
- 1 or 2 input channels and up to 64 output channels
- Ultra-small, suitable for all applications
- Available with all type of packages and connectors



Overview

Planar Lightwave Circuits (PLC) splitters are manufactured using silica glass waveguide circuits and extremely precise alignment of optic fibers in very small package. They split or combine light from one or two incoming fibres to multiple numbers of outgoing fibers. They perform uniformly over a wide spectral range, with ultra-low losses. Splitters are highly compact, reliable and available in very 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

Parameter	Value											
Operating wavelength	1250 ~ 1650nm											
Return loss	≥55dB											
Directivity	≥55dB											
Operating/ storage temp	-40 ~ + 85°C											
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

Description	Basic Type	Integrated type	Box Type
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

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Environmental Data

Description	Value
Operating temperature	-40°C to +85°C
Standard compliance	GR 1209, 1221
2011/65/EC RoHS	Fully compliant

Ordering Information

PLC	1	0	2	A	1	A	1	A	S	1	5	1	5	S
	1 - 3		4 - 6	7	8	9	10	11	12	13-14		15-16		17

4 - 6 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

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

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

9 POLISH TYPE
- A = APC
- U = UPC
- P = PC
- BLANK = NO CONNECTOR

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

11 POLISH TYPE
- A = APC
- U = UPC
- P = PC
- BLANK = NO CONNECTOR

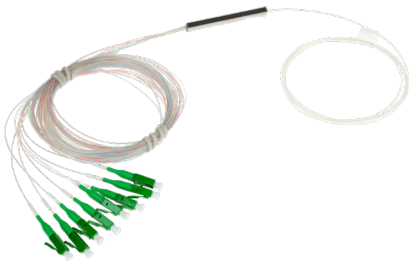
12 FIBER TYPE
- S = G652D
- A = G657A1
- N = G657A2
- B = G657B3

13 - 14 LENGTH IN
- 05 = 0.5MTR
- 10 = 1.0MTR
- 15 = 1.5MTR

15-16 LENGTH OUT
- 05 = 0.5MTR
- 10 = 1.0MTR
- 15 = 1.5MTR

17 CATEGORY
- S = STANDARD
- L = LITE
- D = DISTRIBUTION

ABS Box type



Bare Fiber

*Box Dimensions mentioned above

rev2_12132021