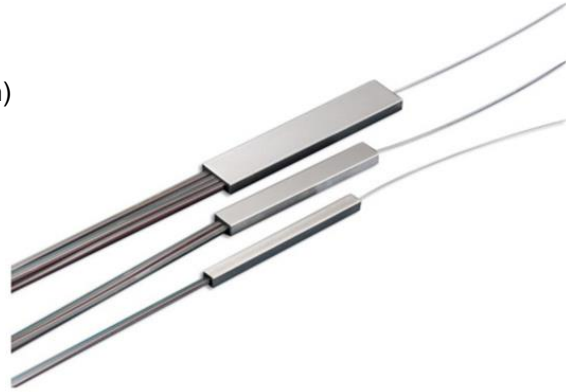


## Fiber Optic, PLC Splitters

### 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



### Description

Opterna's 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. Opterna splitters are highly compact, reliable and available in very wide range of fiber and connector types. All Opterna PLC splitters are fully compliant with the Telcordia GR-1209 & GR-1221 standard.

### Technical data

Optical data	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											
	<b>1x2</b>	<b>1x4</b>	<b>1x8</b>	<b>1x16</b>	<b>1x32</b>	<b>1x64</b>	<b>2x2</b>	<b>2x4</b>	<b>2x8</b>	<b>2x16</b>	<b>2x32</b>	<b>2x64</b>
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)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Dimensions	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

Environmental data

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

Ordering information

PLC

1	2	3	4	5	6	7	8	9
1. Select PLC type 102 = 1x2 104 = 1x4 108 = 1x8 116 = 1x16 132 = 1x32 164 = 1x64 202 = 2x2 204 = 2x4 208 = 2x8 216 = 2x16 232 = 2x32 264 = 2x64	2. Select package type A = Integrated C = Plastic case D = Bare fiber type X = Custom type	3. Select I/P connector SCU = SC/UPC SCA = SC/APC LCU = LC/UPC LCA = LC/APC FCU = FC/APC FCA = FC/APC Empty = No conn	4. Select O/P connector SCU = SC/UPC SCA = SC/APC LCU = LC/UPC LCA = LC/APC FCU = FC/APC FCA = FC/APC Empty = No conn	5. Select I/P fiber 0 = 250um 9 = 900um 2 = 2.0mm X = Custom	6. Select O/P fiber 0 = 250um 9 = 900um 2 = 2.0mm R = 250um ribbon X = Custom	7. Select I/P fiber length 05 = 0.5m 10 = 1.0m 15 = 1.5m Xx = other	8. Select O/P fiber length 05 = 0.5m 10 = 1.0m 15 = 1.5m	9. Select fiber type OS2 = G652D 7A1 = G657A1 7A2 = G657A2