

3M[™] Planar Light Circuit (PLC) Optical Splitters

3M[™] Planar Light Circuit (PLC) Splitters are fully passive optical branching devices that exhibit uniform signal splitting for the most advanced optical networks. These planar silica waveguide devices are packaged in small form factor housings to offer compact management into 3M modules and splice trays.

Bend insensitive, reduced water peak singlemode fiber is used to provide low bending loss in applications which require tight radius or significant handling by the technician. These splitters are manufactured and tested to GR-1209/1221 to provide the high performance and reliability needed in the outside plant environment.

Applications for the PLC splitters include all FTTH network architectures (GPON, BPON, EPON), Passive Optical LAN and CATV.

Operating Conditions

Wavelength Temperature range

Humidity range

1260 ~ 1360 nm & 1450 ~ 1650 nm -40°C to 85°C 5% to 85% RH



3M[™] Planar Light Circuit (PLC) Optical Splitter Family



Available with factory terminated fanouts

Telecordia GR-1209 & GR-1221 compliant

Features

Low insertion loss

High uniformity

Fiber input & output

(ITU G.652D and G.657A)

Outputs color coded per TIA/EIA 598-B Blue, Orange, Green, Brown, Slate, White, Red, Black

Bend insensitive SM fiber meets



Available in various splice trays to fit 3M[™] Fiber Splice Closures

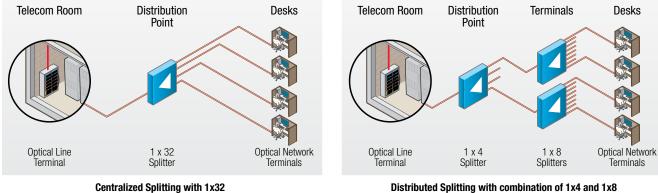


3M[™] Planar Light Circuit (PLC) Optical Splitters

Specifications										
Parameters	1x2	1x4	1x8	1x16	1x32	2x2	2x4	2x8	2x16	2x32
Insertion loss (dB)	3.7	7.2	10.5	13.5	16.5	3.9	7.5	10.8	14.1	17.4
Uniformity (dB)	≤0.6	≤0.6	≤0.8	≤1.2	≤1.7	≤0.8	≤1.2	≤1.5	≤2.0	≤2.5
PDL (dB)	≤0.2	≤0.3	≤0.3	≤0.3	≤0.3	≤0.2	≤0.3	≤0.4	≤0.4	≤0.4
Return loss (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55	≥55	≥55	≥55

Configuration Guide							ADD FOR FANOUT:
PLC	- XXX -	- XX	- XX	- XX	- X	- X	- XXXX
Splitter Type	Ports	Fiber Type (Input/Output)	Connectors (Input/Output)	Pigtail Length** (Input & Output)	Grade	Tray or Cassette	Length Ribbon (L1)/ Breakout (L2)
	102 = 1x2						
PLC =Planar Light Circuit	104 = 1x4	2 = 250 µm	0 = none	15 = 1.5 meter	S = Standard	0 = none	0312=.03 m/1.2 m
	108 = 1x8	$R = 250 \ \mu m \ Ribbon$	1 = SC/UPC				
	116 = 1x16	9 = 900 µm loose tube	2 = SC/APC	Γ	Example: PLC-104-2	9-22-15-S-0-0312	
	132 = 1x32				(1x4, 250 µm input, 9	900 µm loose tube outp	
	202 = 2x2				, 0	s, standard grade, no tr and 1.2m of 900 µm lo	
	204 = 2x4						
	208 = 2x8						
	216 = 2x16						
	232 = 2x32	x32 ** Inputs & outputs equal length					

Passive Optical LAN Architectures Utilizing PLC Splitters



3M[™] Planar Light Circuit (PLC) Optical Splitters

Distributed Splitting with combination of 1x4 and 1x8 3M™ Planar Light Circuit (PLC) Optical Splitters

Desks

3M[™] Planar Light Circuit (PLC) Splitters Ordering Information

PLC-102-22-00-15-S-0 PLC singlemode optical splitter 1X2, 250 µm discrete output 80-6113-2660-6 1 PLC-104-22-00-15-S-0 PLC singlemode optical splitter 1X4, 250 µm discrete output 80-6113-2614-4 1 PLC-104-22-00-15-S-0 PLC singlemode optical splitter 1X4, ribbon output 80-6113-2614-5 1 PLC-104-99-22-15-S-0 PLC singlemode optical splitter 1X4, 900 µm loose tube, SC/VPC 80-6113-2514-5 1 PLC-104-99-22-15-S-0 PLC singlemode optical splitter 1X8, 900 µm loose tube, SC/VPC 80-6113-2516-0 1 PLC-108-22-00-15-S-0 PLC singlemode optical splitter 1X8, 250 µm discrete output 80-6113-2662-2 1 PLC-108-28-00-15-S-0 PLC singlemode optical splitter 1X8, 900 µm loose tube, SC/VPC 80-6113-2662-2 1 PLC-108-99-21-15-S-0 PLC singlemode optical splitter 1X8, 900 µm loose tube, SC/VPC 80-6113-2515-2 1 PLC-108-99-21-5-S-0 PLC singlemode optical splitter 1X6, 250 µm discrete output 80-6113-2663-0 1 PLC-116-22-00-15-S-0 PLC singlemode optical splitter 1X6, 250 µm discrete output 80-6113-2664-8 1 PLC-116-29-02-15-S-0 PLC singlemode optical splitter 1X32, 250 µm discrete output 80-6113-2664-8 1 <t< th=""><th>Product Number</th><th>Description</th><th>3M ID</th><th>Minimum Order</th></t<>	Product Number	Description	3M ID	Minimum Order
PLC-104-2R-00-15-S-0PLC singlemode optical splitter 1X4, ribbon output80-6113-2448-61PLC-104-99-11-15-S-0PLC singlemode optical splitter 1X4, 900 µm loose tube, SC/UPC80-6113-2514-51PLC-104-99-22-15-S-0PLC singlemode optical splitter 1X4, 900 µm loose tube, SC/APC80-6113-2516-01PLC-108-22-00-15-S-0PLC singlemode optical splitter 1X8, 250 µm discrete output80-6113-2662-21PLC-108-27-00-15-S-0PLC singlemode optical splitter 1X8, ribbon output80-6113-2449-41PLC-108-99-11-15-S-0PLC singlemode optical splitter 1X8, 900 µm loose tube, SC/UPC80-6113-2515-21PLC-108-99-22-15-S-0PLC singlemode optical splitter 1X8, 900 µm loose tube, SC/APC80-6113-2663-01PLC-116-22-00-15-S-0PLC singlemode optical splitter 1X6, 250 µm discrete output80-6113-2663-01PLC-116-22-00-15-S-0PLC singlemode optical splitter 1X16, ribbon output80-6113-2663-01PLC-116-22-00-15-S-0PLC singlemode optical splitter 1X16, 900 µm loose tube, SC/APC80-6113-2664-21PLC-116-22-00-15-S-0PLC singlemode optical splitter 1X32, 250 µm discrete output80-6113-2664-81PLC-132-22-00-15-S-0PLC singlemode optical splitter 1X32, 250 µm discrete output80-6113-2664-81PLC-132-22-00-15-S-0PLC singlemode optical splitter 1X32, 900 µm loose tube, SC/APC80-6113-2451-01PLC-132-29-02-15-S-0PLC singlemode optical splitter 1X32, 900 µm loose tube, SC/APC80-6113-2451-01PLC-202-22-00-15-S-0PLC singlemode optical splitter 2X4, 250 µm discrete ou	PLC-102-22-00-15-S-0	PLC singlemode optical splitter 1X2, 250 μm discrete output	80-6113-2660-6	1
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PLC-132-22-00-15-S-0 PLC singlemode optical splitter 1X32, 250 µm discrete output 80-6113-2664-8 1 PLC-132-2R-00-15-S-0 PLC singlemode optical splitter 1X32, ribbon output 80-6113-2451-0 1 PLC-132-99-22-15-S-0 PLC singlemode optical splitter 1X32, 900 µm loose tube, SC/APC 80-6114-7901-7 1 PLC-164-22-00-15-S-0 PLC singlemode optical splitter 1X64, 250 µm discrete output 80-6113-2984-0 1 PLC-202-22-00-15-S-0 PLC singlemode optical splitter 2X2, 250 µm discrete output 80-6113-2717-4 1 PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 250 µm discrete output 80-6113-2718-2 1 PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 900 µm loose tube, SC/APC 80-6113-9835-7 1 PLC-204-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC 80-6113-9836-5 1 PLC-206-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC 80-6113-9837-3 1	PLC-116-2R-00-15-S-0	PLC singlemode optical splitter 1X16, ribbon output	80-6113-2450-2	1
PLC-132-2R-00-15-S-0PLC singlemode optical splitter 1X32, ribbon output80-6113-2451-01PLC-132-99-22-15-S-0PLC singlemode optical splitter 1X32, 900 µm loose tube, SC/APC80-6114-7901-71PLC-164-22-00-15-S-0PLC singlemode optical splitter 1X64, 250 µm discrete output80-6113-2984-01PLC-202-22-00-15-S-0PLC singlemode optical splitter 2X2, 250 µm discrete output80-6113-2717-41PLC-204-22-00-15-S-0PLC singlemode optical splitter 2X4, 250 µm discrete output80-6113-2718-21PLC-204-99-22-15-S-0PLC singlemode optical splitter 2X4, 900 µm loose tube, SC/APC80-6113-9835-71PLC-208-99-22-15-S-0PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC80-6113-9836-51PLC-216-99-22-15-S-0PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC80-6113-9837-31	PLC-116-99-22-15-S-0	PLC singlemode optical splitter 1X16, 900 μm loose tube, SC/APC	80-6113-9834-0	1
PLC-132-99-22-15-S-0 PLC singlemode optical splitter 1X32, 900 µm loose tube, SC/APC 80-6114-7901-7 1 PLC-164-22-00-15-S-0 PLC singlemode optical splitter 1X64, 250 µm discrete output 80-6113-2984-0 1 PLC-202-22-00-15-S-0 PLC singlemode optical splitter 2X2, 250 µm discrete output 80-6113-2717-4 1 PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 250 µm discrete output 80-6113-2718-2 1 PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 900 µm loose tube, SC/APC 80-6113-9835-7 1 PLC-204-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC 80-6113-9837-3 1	PLC-132-22-00-15-S-0	PLC singlemode optical splitter 1X32, 250 μm discrete output	80-6113-2664-8	1
PLC-164-22-00-15-S-0 PLC singlemode optical splitter 1X64, 250 µm discrete output 80-6113-2984-0 1 PLC-202-22-00-15-S-0 PLC singlemode optical splitter 2X2, 250 µm discrete output 80-6113-2717-4 1 PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 250 µm discrete output 80-6113-2718-2 1 PLC-204-99-22-15-S-0 PLC singlemode optical splitter 2X4, 900 µm loose tube, SC/APC 80-6113-9835-7 1 PLC-208-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC 80-6113-9837-3 1	PLC-132-2R-00-15-S-0	PLC singlemode optical splitter 1X32, ribbon output	80-6113-2451-0	1
PLC-202-22-00-15-S-0 PLC singlemode optical splitter 2X2, 250 µm discrete output 80-6113-2717-4 1 PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 250 µm discrete output 80-6113-2718-2 1 PLC-204-99-22-15-S-0 PLC singlemode optical splitter 2X4, 900 µm loose tube, SC/APC 80-6113-9835-7 1 PLC-208-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC 80-6113-9837-3 1	PLC-132-99-22-15-S-0	PLC singlemode optical splitter 1X32, 900 μm loose tube, SC/APC	80-6114-7901-7	1
PLC-204-22-00-15-S-0 PLC singlemode optical splitter 2X4, 250 μm discrete output 80-6113-2718-2 1 PLC-204-99-22-15-S-0 PLC singlemode optical splitter 2X4, 900 μm loose tube, SC/APC 80-6113-9835-7 1 PLC-208-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 μm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 μm loose tube, SC/APC 80-6113-9836-5 1	PLC-164-22-00-15-S-0	PLC singlemode optical splitter 1X64, 250 μm discrete output	80-6113-2984-0	1
PLC-204-99-22-15-S-0 PLC singlemode optical splitter 2X4, 900 µm loose tube, SC/APC 80-6113-9835-7 1 PLC-208-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 µm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC 80-6113-9837-3 1	PLC-202-22-00-15-S-0	PLC singlemode optical splitter 2X2, 250 μm discrete output	80-6113-2717-4	1
PLC-208-99-22-15-S-0 PLC singlemode optical splitter 2X8, 900 μm loose tube, SC/APC 80-6113-9836-5 1 PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 μm loose tube, SC/APC 80-6113-9837-3 1	PLC-204-22-00-15-S-0	PLC singlemode optical splitter 2X4, 250 μm discrete output	80-6113-2718-2	1
PLC-216-99-22-15-S-0 PLC singlemode optical splitter 2X16, 900 µm loose tube, SC/APC 80-6113-9837-3 1	PLC-204-99-22-15-S-0	PLC singlemode optical splitter 2X4, 900 μm loose tube, SC/APC	80-6113-9835-7	1
	PLC-208-99-22-15-S-0	PLC singlemode optical splitter 2X8, 900 μm loose tube, SC/APC	80-6113-9836-5	1
PLC-232-99-22-15-S-0 PLC singlemode optical splitter 2X32, 900 µm loose tube, SC/APC 80-6113-9838-1 1	PLC-216-99-22-15-S-0	PLC singlemode optical splitter 2X16, 900 μm loose tube, SC/APC	80-6113-9837-3	1
	PLC-232-99-22-15-S-0	PLC singlemode optical splitter 2X32, 900 μm loose tube, SC/APC	80-6113-9838-1	1

3M[™] Planar Light Circuit (PLC) Splitters Fanout Ordering Information

Product Number	Description	3M ID	Minimum Order
PLC-104-29-11-15-S-0-0312	PLC singlemode optical splitter 1X4, 900 μm fanout, SC/UPC	80-6113-2455-1	1
PLC-108-29-11-15-S-0-0312	PLC singlemode optical splitter 1X8, 900 μm fanout, SC/UPC	80-6113-2456-9	1
PLC-108-29-22-15-S-0-0312	PLC singlemode optical splitter 1X8, 900 μm fanout, SC/APC	80-6113-2463-5	1
PLC-116-29-11-15-S-0-0312	PLC singlemode optical splitter 1X16, 900 μm fanout, SC/UPC	80-6113-2457-7	1
PLC-116-29-22-15-S-0-0312	PLC singlemode optical splitter 1X16, 900 μm fanout, SC/APC	80-6113-2464-3	1
PLC-132-29-11-15-S-0-0312	PLC singlemode optical splitter 1X32, 900 µm fanout, SC/UPC	80-6113-2458-5	1



3M[™] Planar Light Circuit (PLC) Splitters in Trays Ordering Information

Product Number	Description	3M ID	Minimum Order
2527-1x2PLC-01-SF2-BA-S	2527 tray with one 1x2 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3481-6	1
2527-1X4PLC-01-SF2-BA	2527 tray with one 1x4 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3087-1	1
2527-1X8PLC-01-SF2-BA	2527 tray with one 1x8 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3480-8	1
2527-1X16PLC-1-SF2-AA-S	2527 tray with one 1x16 PLC splitter, splitter input splicing for 12 3.0x60 mm SF	80-6113-3482-4	1
2527-1X32PLC-1-SF2-AA	2527 tray with one 1x32 PLC splitter, splitter input splicing for 12 3.0x60 mm SF	80-6113-3088-9	1
2532-1X4PLC-01-SF2-BA	2532 tray with one 1x4 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3089-7	1
2532-1X8PLC-01-SF2-BA	2532 tray with one 1x8 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3090-5	1
2532-1X32PLC-01-SF2-AA-M	2532 tray with one 1x32 PLC splitter, splitter input for 12 3.0x60 mm SF	80-6113-8092-6	1
2538-1X4PLC-01-SF2-BA	2538 tray with one 1x4 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3091-3	1
2538-1X8PLC-01-SF2-BA	2538 tray with one 1x8 PLC splitter, splitter input/output splicing for 12 3.0x60 mm SF	80-6113-3092-1	1
2538-1X32PLC-01-SF2-AA-M	2538 tray with one 1x32 PLC splitter, splitter input for 12 3.0x60 mm SF $$	80-6113-3512-8	1

Tray Type	3M Closure Compatibility
2527	All 3M [™] Fiber Optic Splice Closures 2178 and 3M [™] SLiC [™] Fiber Aerial Closures 533 and 733
2532	3M [™] Fiber Optic Splice Closure 2178-XSB
2538	3M [™] Closures Fiber Dome

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