



# Fiber Optic Splitter Modules

## PLC 2 to 64 Ports Single/Dual Input

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### Features

- 1x2 to 1x64 standard split ratios
- 2x2 to 2x64 for redundancy and test access
- Wideband performance
- Low insertion loss
- Low back reflection
- High output uniformity
- Stable optical performance
- Bend resistant fiber G.657A2 compliant
- SC/APC, LC/APC, SC or LC connectors

## Application

The Planar Lightwave Circuit (PLC) splitter modules are designed to fit the Hexatronic Fiber Distribution Hubs (FDH) 1/NBD 116 200 and 2/NBD 116 200. It can also be used with 19" splitter frames NBA 30104, 05 in Central Office applications (centralized splitters). The module provides uniform division of an optical signal from one or two input fiber ports multiple output ports. The splitters are designed to meet the requirements for a wide range of fiber optic communications systems like in PON FTTx networks.

Low loss under extreme environmental conditions ensures stable operation. The compact packages equipped with bendresistant pre-connected fiber makes them especially suitable for fast and incremental installation in compact FDH cabinets.

## Design

1 x n and 2 x n PLC splitters utilize silica on silica optical waveguide technology. PLC splitters enable thermally stable, compact packages with wideband performance.

The splitters are available in configurations with single fiber input from 1x2 to 1x64 as well as with dual fiber inputs 2x2 to 2x32. The pre connected cables has an outer diameter of 1.6 mm.

Two types are available:

- 1 Short tail, 180 mm (input) / n x730 mm (output) pre-terminated ends
- 2 Long tail, 900 mm (input) / n x1500 mm (output) pre-terminated ends

## Product Information

The Splitter module housing is made of Poly Carbonate (PC).

All materials are RoHS approved.

**Dimensions (DxWxH):** 80 x 10 x 125 mm. (splitters =< n x 32)

**Dimensions (DxWxH):** 80 x 20 x 125 mm. (splitters = n x 64)

## Technical Information

<b>Product Color</b>	Light grey
<b>Temperature, Operation [°C]</b>	-40 to +85
<b>Temperature, Storage [°C]</b>	-40 to +85
<b>Temperature, Installation [°C]</b>	-20 to +50
<b>Fiber Type</b>	G657A1
<b>Return Loss, min [dB]</b>	55

**Conformance**

Telcordia GR-1209, GR-1221  
 IEC 67153-031-3/-6.  
 IEC 61754-4  
 IEC 61754-6  
 IEC 61754-20  
 ITU-T G.657 A  
 ITU-T G.671 (1:16 and 1:32 splitters)  
 RoHS

**Technical Notes**

**Operating Wavelength:** 1260 ~ 1360, 1450 ~ 1650 nm  
**Maximum input power:** 500mW

**Installation Notes**

Note that the splitters are available in two main configurations with long tail or short tail and with single fiber input or dual fiber input. Choose the right type for your application or ask Hexatronic for advice.

**Technical Details**

Split ratio	Insertion Loss (max) dB	Uniformity* (max) dB	PDL (max) dB
1:2	4.0	0.6	<0.3
1:4	7.4	0.8	<0.3
1:8	10.7	1.0	<0.3
1:16	13.9	1.3	<0.3
1:24	16.5	1.6	<0.3
1:32	17.0	1.8	<0.4
1:64	21.5	2.5	<0.4
2:2	4.3	0.9	<0.4
2:4	7.6	1.5	<0.4
2:8	11.0	1.7	<0.4
2:16	14.5	2.1	<0.4
2:32	18.0	2.5	<0.4
2:64	21.9	3.0	<0.4

\*Including wavelength dependent loss, polarization dependent loss and temperature dependent loss defined by the operation wavelength band and the operation temperature range.

*Configuration Chart*

## Articles 122

Article name	Color	Layout	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>SPLM 1:4, SC/APC, 900/1500</b> RDJ901200/1	Light grey	1x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:8, SC, 900/1500</b> RDJ901200/10	Light grey	1x8	90 × 10 × 126	0.91	900/1500
<b>SPLM 1:8, LC/APC, 900/1500</b> RDJ901200/11	Light grey	1x8	90 × 10 × 126	0.91	900/1500
<b>SPLM 1:8, LC, 900/1500</b> RDJ901200/12	Light grey	1x8	90 × 10 × 126	0.91	900/1500
<b>SPLM 1:16, SC/APC, 180/730</b> RDJ901200/13	Light grey	1x16	90 × 10 × 126	0.5	180/730
<b>SPLM 1:16, SC, 180/730</b> RDJ901200/14	Light grey	1x16	90 × 10 × 126	0.95	180/730
<b>SPLM 1:16, LC/APC, 180/730</b> RDJ901200/15	Light grey	1x16	90 × 10 × 126	0.95	180/730
<b>SPLM 1:16, LC, 180/730</b> RDJ901200/16	Light grey	1x16	90 × 10 × 126	0.95	180/730
<b>SPLM 1:16, SC/APC, 900/1500</b> RDJ901200/17	Light grey	1x16	90 × 10 × 126	0.38	900/1500
<b>SPLM 1:16, SC, 900/1500</b> RDJ901200/18	Light grey	1x16	90 × 10 × 126	0.96	900/1500
<b>SPLM 1:16, LC/APC, 900/1500</b> RDJ901200/19	Light grey	1x16	90 × 10 × 126	0.4	900/1500
<b>SPLM 1:4, SC, 900/1500</b> RDJ901200/2	Light grey	1x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:16, LC/UPC, 900/1500</b> RDJ901200/20	Light grey	1x16	90 × 10 × 126	0.96	900/1500
<b>SPLM 1:24, SC/APC, 180/730</b> RDJ901200/21	Light grey	1x24	90 × 10 × 126	1	180/730
<b>SPLM 1:24, SC, 180/730</b> RDJ901200/22	Light grey	1x24	90 × 10 × 126	1	180/730
<b>SPLM 1:24, LC/APC, 180/730</b> RDJ901200/23	Light grey	1x24	90 × 10 × 126	1	180/730
<b>SPLM 1:24, LC, 180/730</b> RDJ901200/24	Light grey	1x24	90 × 10 × 126	1	180/730
<b>SPLM 1:24, SC/APC, 900/1500</b> RDJ901200/25	Light grey	1x24	90 × 10 × 126	1.01	900/1500
<b>SPLM 1:24, SC, 900/1500</b> RDJ901200/26	Light grey	1x24	90 × 10 × 126	1.01	900/1500
<b>SPLM 1:24, LC/APC, 900/1500</b> RDJ901200/27	Light grey	1x24	90 × 10 × 126	0.38	900/1500
<b>SPLM 1:24, LC, 900/1500</b> RDJ901200/28	Light grey	1x24	90 × 10 × 126	1.01	900/1500
<b>SPLM 1:32, SC/APC, 180/730</b> RDJ901200/29	Light grey	1x32	90 × 10 × 126	0.29	180/730

Article name	Color	Layout	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>SPLM 1:32 SC/APC 180/730 mark green</b> RDJ901200/291	Light grey	1x32	90 × 10 × 126	0.29	180/730
<b>SPLM 1:32 SC/APC 180/730 mark brown</b> RDJ901200/292	Light grey	1x32	90 × 10 × 126	0.29	180/730
<b>SPLM 1:32 SC/APC 180/730 mark Gray</b> RDJ901200/293	Light grey	1x32	90 × 10 × 126	0.29	180/730
<b>SPLM 1:4, LC/APC, 900/1500</b> RDJ901200/3	Light grey	1x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:32, SC, 180/730</b> RDJ901200/30	Light grey	1x32	90 × 10 × 126	1.08	180/730
<b>SPLM 1:32, LC/APC, 180/730</b> RDJ901200/31	Light grey	1x32	90 × 10 × 126	0.4	180/730
<b>SPLM 1:32 LC/APC 180/730 mark green</b> RDJ901200/311	Light grey	1x32	90 × 10 × 126	0.4	180/730
<b>SPLM 1:32 LC/APC 180/730 mark brown</b> RDJ901200/312	Light grey	1x32	90 × 10 × 126	0.4	180/730
<b>SPLM 1:32 LC/APC 180/730 mark brown</b> RDJ901200/313	Light grey	1x32	90 × 10 × 126	0.4	180/730
<b>SPLM 1:32, LC, 180/730</b> RDJ901200/32	Light grey	1x32	90 × 10 × 126	1.08	180/730
<b>SPLM 1:32, SC/APC, 900/1500</b> RDJ901200/33	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark gree</b> RDJ901200/331	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark brow</b> RDJ901200/332	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark Gray</b> RDJ901200/333	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark whit</b> RDJ901200/334	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark red</b> RDJ901200/335	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark blac</b> RDJ901200/336	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark yell</b> RDJ901200/337	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark viol</b> RDJ901200/338	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32 SC/APC 900/1500 mark turq</b> RDJ901200/339	Light grey	1x32	90 × 10 × 126	0.55	900/1500
<b>SPLM 1:32, LC/APC, 1500/2500</b> RDJ901200/135	Light grey	1x32	90 × 10 × 126	1.1	900/1500
<b>SPLM 1:32, SC, 900/1500</b> RDJ901200/34	Light grey	1x32	90 × 10 × 126	1.1	900/1500
<b>SPLM 1:32, LC/APC, 900/1500</b> RDJ901200/35	Light grey	1x32	90 × 10 × 126	0.4	900/1500
<b>SPLM 1:32, LC, 900/1500</b> RDJ901200/36	Light grey	1x32	90 × 10 × 126	1.1	900/1500
<b>SPLM 1:64, SC/APC, 180/730</b> RDJ901200/37	Light grey	1x64	90 × 20 × 126	1.38	180/730

Article name	Color	Layout	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>SPLM 1:64, SC, 180/730</b> RDJ901200/38	Light grey	1x64	90 × 20 × 126	1.38	180/730
<b>SPLM 1:64, LC/APC, 180/730</b> RDJ901200/39	Light grey	1x64	90 × 20 × 126	1.38	180/730
<b>SPLM 1:4, LC, 900/1500</b> RDJ901200/4	Light grey	1x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:64, LC, 180/730</b> RDJ901200/40	Light grey	1x64	90 × 20 × 126	1.38	180/730
<b>SPLM 1:64, SC/APC, 900/1500</b> RDJ901200/41	Light grey	1x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 1:64, SC, 900/1500</b> RDJ901200/42	Light grey	1x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 1:64, LC/APC, 900/1500</b> RDJ901200/43	Light grey	1x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 1:64, LC, 900/1500</b> RDJ901200/44	Light grey	1x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 2:4, SC/APC, 900/1500</b> RDJ901200/45	Light grey	2x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:4, SC, 900/1500</b> RDJ901200/46	Light grey	2x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:4, LC/APC, 900/1500</b> RDJ901200/47	Light grey	2x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:4, LC, 900/1500</b> RDJ901200/48	Light grey	2x4	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:8, SC/APC, 180/730</b> RDJ901200/49	Light grey	2x8	90 × 10 × 126	0.92	180/730
<b>SPLM 1:8, SC/APC, 180/730</b> RDJ901200/5	Light grey	1x8	90 × 10 × 126	0.9	180/730
<b>SPLM 2:8, SC, 180/730</b> RDJ901200/50	Light grey	2x8	90 × 10 × 126	0.92	180/730
<b>SPLM 2:8, LC/APC, 180/730</b> RDJ901200/51	Light grey	2x8	90 × 10 × 126	0.92	180/730
<b>SPLM 2:8, LC, 180/730</b> RDJ901200/52	Light grey	2x8	90 × 10 × 126	0.92	180/730
<b>SPLM 2:8, SC/APC, 900/1500</b> RDJ901200/53	Light grey	2x8	90 × 10 × 126	0.92	900/1500
<b>SPLM 2:8, SC, 900/1500</b> RDJ901200/54	Light grey	2x8	90 × 10 × 126	0.92	900/1500
<b>SPLM 2:8, LC/APC, 900/1500</b> RDJ901200/55	Light grey	2x8	90 × 10 × 126	0.92	900/1500
<b>SPLM 2:8, LC, 900/1500</b> RDJ901200/56	Light grey	2x8	90 × 10 × 126	0.92	900/1500
<b>SPLM 2:16, SC/APC, 180/730</b> RDJ901200/57	Light grey	2x16	90 × 10 × 126	0.95	180/730
<b>SPLM 2:16, SC, 180/730</b> RDJ901200/58	Light grey	2x16	90 × 10 × 126	0.95	180/730

Article name	Color	Layout	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>SPLM 2:16, LC/APC, 180/730</b> RDJ901200/59	Light grey	2x16	90 × 10 × 126	0.95	180/730
<b>SPLM 1:8, SC, 180/730</b> RDJ901200/6	Light grey	1x8	90 × 10 × 126	0.9	180/730
<b>SPLM 2:16, LC, 180/730</b> RDJ901200/60	Light grey	2x16	90 × 10 × 126	0.95	180/730
<b>SPLM 2:16, SC/APC, 900/1500</b> RDJ901200/61	Light grey	2x16	90 × 10 × 126	0.96	900/1500
<b>SPLM 2:16, SC, 900/1500</b> RDJ901200/62	Light grey	2x16	90 × 10 × 126	0.96	900/1500
<b>SPLM 2:16, LC/APC, 900/1500</b> RDJ901200/63	Light grey	2x16	90 × 10 × 126	0.96	900/1500
<b>SPLM 2:16, LC, 900/1500</b> RDJ901200/64	Light grey	2x16	90 × 10 × 126	0.96	900/1500
<b>SPLM 2:32, SC/APC, 180/730</b> RDJ901200/65	Light grey	2x32	90 × 10 × 126	1.1	180/730
<b>SPLM 2:32, SC, 180/730</b> RDJ901200/66	Light grey	2x32	90 × 10 × 126	1.1	180/730
<b>SPLM 2:32, LC/APC, 180/730</b> RDJ901200/67	Light grey	2x32	90 × 10 × 126	0.4	180/730
<b>SPLM 2:32, LC, 180/730</b> RDJ901200/68	Light grey	2x32	90 × 10 × 126	1.1	180/730
<b>SPLM 2:32, SC/APC, 900/1500</b> RDJ901200/69	Light grey	2x32	90 × 10 × 126	0.38	900/1500
<b>SPLM 1:8, LC/APC, 180/730</b> RDJ901200/7	Light grey	1x8	90 × 10 × 126	0.9	180/730
<b>SPLM 2:32, SC, 900/1500</b> RDJ901200/70	Light grey	2x32	90 × 10 × 126	1.13	900/1500
<b>SPLM 2:32, LC/APC, 900/1500</b> RDJ901200/71	Light grey	2x32	90 × 10 × 126	1.13	900/1500
<b>SPLM 2:32, LC, 900/1500</b> RDJ901200/72	Light grey	2x32	90 × 10 × 126	1.13	900/1500
<b>SPLM 2:64, SC/APC, 180/730</b> RDJ901200/73	Light grey	2x64	90 × 20 × 126	1.4	180/730
<b>SPLM 2:64, SC, 180/730</b> RDJ901200/74	Light grey	2x64	90 × 20 × 126	1.4	180/730
<b>SPLM 2:64, LC/APC, 180/730</b> RDJ901200/75	Light grey	2x64	90 × 20 × 126	1.4	180/730
<b>SPLM 2:64, LC, 180/730</b> RDJ901200/76	Light grey	2x64	90 × 20 × 126	1.4	180/730
<b>SPLM 2:64, SC/APC, 900/1500</b> RDJ901200/77	Light grey	2x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 2:64, SC, 900/1500</b> RDJ901200/78	Light grey	2x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 2:64, LC/APC, 900/1500</b> RDJ901200/79	Light grey	2x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 1:8, LC, 180/730</b> RDJ901200/8	Light grey	1x8	90 × 10 × 126	0.9	180/730

Article name	Color	Layout	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>SPLM 2:64, LC, 900/1500</b> RDJ901200/80	Light grey	2x64	90 × 20 × 126	1.4	900/1500
<b>SPLM 1:2, SC/APC, 180/730</b> RDJ901200/81	Light grey	1x2	90 × 10 × 126	0.5	180/730
<b>SPLM 1:2, SC, 180/730</b> RDJ901200/82	Light grey	1x2	90 × 10 × 126	0.9	180/730
<b>SPLM 1:2, LC/APC, 180/730</b> RDJ901200/83	Light grey	1x2	90 × 10 × 126	0.9	180/730
<b>SPLM 1:2, LC, 180/730</b> RDJ901200/84	Light grey	1x2	90 × 10 × 126	0.9	180/730
<b>SPLM 1:2, SC/APC, 900/1500</b> RDJ901200/85	Light grey	1x2	90 × 10 × 126	0.5	900/1500
<b>SPLM 1:2, SC, 900/1500</b> RDJ901200/86	Light grey	1x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:2, LC/APC, 900/1500</b> RDJ901200/87	Light grey	1x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:2, LC, 900/1500</b> RDJ901200/88	Light grey	1x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:2, SC/APC, 180/730</b> RDJ901200/89	Light grey	2x2	90 × 10 × 126	0.9	180/730
<b>SPLM 1:8, SC/APC, 900/1500</b> RDJ901200/9	Light grey	1x8	90 × 10 × 126	0.38	900/1500
<b>SPLM 2:2, SC, 180/730</b> RDJ901200/90	Light grey	2x2	90 × 10 × 126	0.9	180/730
<b>SPLM 2:2, LC/APC, 180/730</b> RDJ901200/91	Light grey	2x2	90 × 10 × 126	0.9	180/730
<b>SPLM 2:2, LC, 180/730</b> RDJ901200/92	Light grey	2x2	90 × 10 × 126	0.9	180/730
<b>SPLM 2:2, SC/APC, 900/1500</b> RDJ901200/93	Light grey	2x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:2, SC, 900/1500</b> RDJ901200/94	Light grey	2x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:2, LC/APC, 900/1500</b> RDJ901200/95	Light grey	2x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 2:2, LC, 900/1500</b> RDJ901200/96	Light grey	2x2	90 × 10 × 126	0.9	900/1500
<b>SPLM 1:8, SC/APC, 900/3000</b> RDJ901200/97	Light grey	1x8	90 × 10 × 126	1.1	900/3000
<b>SPLM 1:8, SC+8FC, 3.6/9.1M</b> RDJ901200/100	Light grey	1x8	90 × 10 × 126	1.6	3600/9000
<b>SPLM 1:8, SC+8FC, 3.6/12.5M</b> RDJ901200/101	Light grey	1x8	90 × 10 × 126	1.6	3600/12500
<b>SPLM 1:16, SC+16FC, 3.6/6M</b> RDJ901200/102	Light grey	1x16	90 × 10 × 126	1.6	3600/6000
<b>SPLM 1:16, SC+16FC, 3.6/9.1M</b> RDJ901200/103	Light grey	1x16	90 × 10 × 126	1.6	3600/9100
<b>SPLM 1:32, SC+32FC, 3.6/6M</b> RDJ901200/105	Light grey	1x16	90 × 10 × 126	1.6	3600/6000



Article name	Color	Layout	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>SPLM 1:32, SC+32FC, 3.6/9.1M</b> RDJ901200/106	Light grey	1x16	90 × 10 × 126	1.6	3600/9100
<b>SPLM 1:8, SC+8FC, 3.6/6M</b> RDJ901200/99	Light grey	1x8	90 × 10 × 126	1.4	3600/6000
<b>RDJ Plastic Patch Module, LC, 8F Simplex</b> ENPP-ORPCH MOD1-BLP	–	–	–	–	–
<b>SPLM 1:32, SC/APC, 900/1500 MARK YELLOW</b> RDJ901200/337R2B	–	–	–	–	–