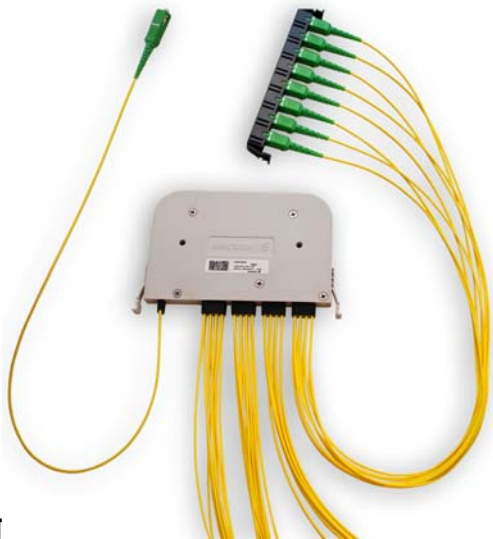


Fiber Optic Splitter Modules, RDJ 901 200

2 to 64 Ports Single/Dual Input PLC



Features

- 1x4 to 1x64 standard split ratios
- 2x4 to 2x64 for redundancy and test access
- Wideband performance
- Low insertion loss
- Low back reflection
- Low PDL (Polarization Dependent Loss)
- Low WDL (Wavelength Dependent Loss)
- Low TDL (Temperature Dependent Loss)
- High output uniformity
- Stable optical performance
- Bend insensitive fiber G.657 A compliant
- SC/APC, LC/APC, SC or LC connectors

Application

The Planar Lightwave Circuit (PLC) splitter modules are designed to fit the Ericsson Fiber Distribution Hubs (FDH) 1/NBD116200 and 2/NBD116200. It can also be used with 19" splitter frames NBA 301 04, 05 in Central Termination Point applications (centralized splitters). The module provides uniform division of an optical signal from one or two input fiber ports to 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 bend resistant pre-connected fiber makes them especially suitable for fast and incremental installation in compact FDH cabinets.

Conformances

The modules are designed for stable performance according to 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 Directive

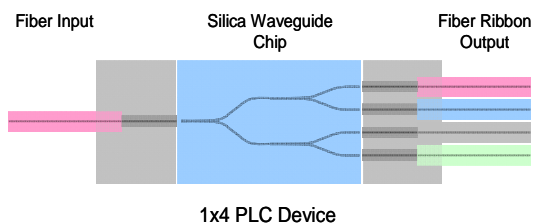
Description

Split ratio	Insertion loss (max) dB	Uniformity* (max) dB	PDL (max) dB
1:2	4.0	0.6	< 0.3
1:4	7.6	0.8	< 0.3
1:8	11	1.0	< 0.3
1:16	14.5	1.3	< 0.3
1:24	16.5	1.6	< 0.3
1:32	18.0	1.8	< 0.4
1:64	21.5	2.5	< 0.4
2:2	4.3	0.9	< 0.4
2:4	7.9	1.5	< 0.4
2:8	11.5	1.7	< 0.4
2:16	15.1	2.1	< 0.4
2:32	18.7	2.5	< 0.4
2:64	22.3	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.

Above parameters for splitter components excluding connectors.

1xN and 2xN 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 1x4 to 1x64 as well as with dual fiber inputs 2x4 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, suitable for 1/NBD116200 and 3/NBD116200
2. Long tail, 900 mm (input) / n x1500 mm (output) pre-terminated ends, suitable for 2/NBD116200

Connector options

SC/APC, SC, LC/APC and LC

The splitters are delivered with the connectors mounted on a clamp that also serves as a temporary "parking lot" for unused ports when installed in the Ericsson FDHs.

Material

The Splitter module housing is made of Poly Carbonate (PC). All materials are RoHS approved.

Specifications

Optical Properties

Operating Wavelength.....
1260 ~ 1360, 1450 ~ 1650 nm
Directivity>55dB
Return Loss>55dB
Maximum input power500mW

The optical properties refer to maximum values, valid for the entire operating wavelength band and temperature range. At specific wavelengths and temperatures, better performance may be obtained. Detailed information is available upon request.

Fiber Type

Bend resistant singlemode fiber according to ITU-T G.657 A (G.652 D compliant)

Temperature and Humidity

Operation.....-40 to +85°C
Transport and storage-40 to +85°C
Storage rel. humidity 20-95 (%RH)

Size and weight

Weight: approx. 120 g (average)
Dimensions (DxWxH) : 90x10x126mm (splitters < n x 64)
Dimensions (DxWxH) : 90x20x126mm (splitters > n x 64)
Color: Light grey

Ordering information

For ordering information also refer to product data sheets:

28701-1/NBD116200 FDH 64

28701-2/NBD116200 FDH 288

28701-3/NBD116200 FDH 96 underground

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.

Splitters with high performance grade, according to ITU-T G.671, are available upon request.

Splitter modules, short tail 180/730mm

Suitable for FDH 1/NBD116200 and 3/NBD116200

RDJ 901200/81	1:2 splitter, SC/APC
RDJ 901200/82	1:2 splitter, SC
RDJ 901200/83	1:2 splitter, LC/APC
RDJ 901200/84	1:2 splitter, LC
RDJ 901200/5	1:8 splitter, SC/APC
RDJ 901200/6	1:8 splitter, SC
RDJ 901200/7	1:8 splitter, LC/APC
RDJ 901200/8	1:8 splitter, LC
RDJ 901200/13	1:16 splitter, SC/APC
RDJ 901200/14	1:16 splitter, SC
RDJ 901200/15	1:16 splitter, LC/APC
RDJ 901200/16	1:16 splitter, LC
RDJ 901200/21	1:24 splitter, SC/APC
RDJ 901200/22	1:24 splitter, SC
RDJ 901200/23	1:24 splitter, LC/APC
RDJ 901200/24	1:24 splitter, LC
RDJ 901200/29	1:32 splitter, SC/APC
RDJ 901200/30	1:32 splitter, SC
RDJ 901200/31	1:32 splitter, LC/APC
RDJ 901200/32	1:32 splitter, LC
RDJ 901200/37	1:64 splitter, SC/APC
RDJ 901200/38	1:64 splitter, SC
RDJ 901200/39	1:64 splitter, LC/APC
RDJ 901200/40	1:64 splitter, LC

Splitter modules, short tail 180/730mm

Suitable for FDH 1/NBD116200 and 3/NBD116200

RDJ 901200/89	2:2 splitter, SC/APC
RDJ 901200/90	2:2 splitter, SC
RDJ 901200/91	2:2 splitter, LC/APC
RDJ 901200/92	2:2 splitter, LC
RDJ 901200/49	2:8 splitter, SC/APC
RDJ 901200/50	2:8 splitter, SC
RDJ 901200/51	2:8 splitter, LC/APC
RDJ 901200/52	2:8 splitter, LC
RDJ 901200/57	2:16 splitter, SC/APC
RDJ 901200/58	2:16 splitter, SC
RDJ 901200/59	2:16 splitter, LC/APC
RDJ 901200/60	2:16 splitter, LC
RDJ 901200/65	2:32 splitter, SC/APC
RDJ 901200/66	2:32 splitter, SC
RDJ 901200/67	2:32 splitter, LC/APC
RDJ 901200/68	2:32 splitter, LC
RDJ 901200/73	2:64 splitter, SC/APC
RDJ 901200/74	2:64 splitter, SC
RDJ 901200/75	2:64 splitter, LC/APC
RDJ 901200/76	2:64 splitter, LC

Splitter modules, long tail 900/1500mm

Suitable for FDH 2/NBD116200

RDJ 901200/85	1:2 splitter, SC/APC
RDJ 901200/86	1:2 splitter, SC
RDJ 901200/87	1:2 splitter, LC/APC
RDJ 901200/88	1:2 splitter, LC
RDJ 901200/1	1:4 splitter, SC/APC
RDJ 901200/2	1:4 splitter, SC
RDJ 901200/3	1:4 splitter, LC/APC
RDJ 901200/4	1:4 splitter, LC
RDJ 901200/9	1:8 splitter, SC/APC
RDJ 901200/10	1:8 splitter, SC
RDJ 901200/11	1:8 splitter, LC/APC
RDJ 901200/12	1:8 splitter, LC
RDJ 901200/17	1:16 splitter, SC/APC
RDJ 901200/18	1:16 splitter, SC
RDJ 901200/19	1:16 splitter, LC/APC
RDJ 901200/20	1:16 splitter, LC
RDJ 901200/25	1:24 splitter, SC/APC
RDJ 901200/26	1:24 splitter, SC
RDJ 901200/27	1:24 splitter, LC/APC
RDJ 901200/28	1:24 splitter, LC
RDJ 901200/33	1:32 splitter, SC/APC
RDJ 901200/34	1:32 splitter, SC
RDJ 901200/35	1:32 splitter, LC/APC
RDJ 901200/36	1:32 splitter, LC
RDJ 901200/41	1:64 splitter, SC/APC
RDJ 901200/42	1:64 splitter, SC
RDJ 901200/43	1:64 splitter, LC/APC
RDJ 901200/44	1:64 splitter, LC

Splitter modules, long tail 900/1500mm

Suitable for FDH 2/NBD116200

RDJ 901200/93	2:2 splitter, SC/APC
RDJ 901200/94	2:2 splitter, SC
RDJ 901200/95	2:2 splitter, LC/APC
RDJ 901200/96	2:2 splitter, LC
RDJ 901200/45	2:4 splitter, SC/APC
RDJ 901200/46	2:4 splitter, SC
RDJ 901200/47	2:4 splitter, LC/APC
RDJ 901200/48	2:4 splitter, LC
RDJ 901200/53	2:8 splitter, SC/APC
RDJ 901200/54	2:8 splitter, SC
RDJ 901200/55	2:8 splitter, LC/APC
RDJ 901200/56	2:8 splitter, LC
RDJ 901200/61	2:16 splitter, SC/APC
RDJ 901200/62	2:16 splitter, SC
RDJ 901200/63	2:16 splitter, LC/APC
RDJ 901200/64	2:16 splitter, LC
RDJ 901200/69	2:32 splitter, SC/APC
RDJ 901200/70	2:32 splitter, SC
RDJ 901200/71	2:32 splitter, LC/APC
RDJ 901200/72	2:32 splitter, LC
RDJ 901200/77	2:64 splitter, SC/APC
RDJ 901200/78	2:64 splitter, SC
RDJ 901200/79	2:64 splitter, LC/APC
RDJ 901200/80	2:64 splitter, LC