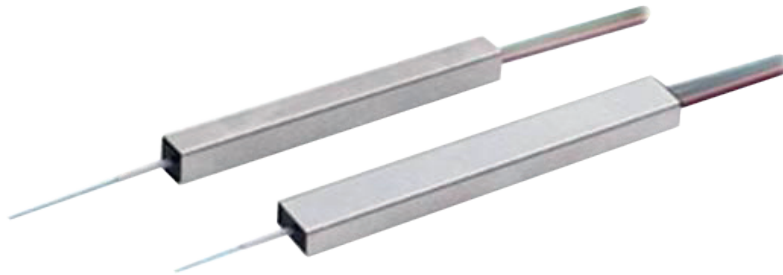


Broadband Fiber Optic Splitters– RDB 10416

2 to 64 Ports Single/Dual Input PLC Splitters



The Planar Lightwave Circuit (PLC) splitters provide uniform division of an optical signal from one or two input fiber ports to multiple output ports.

Features

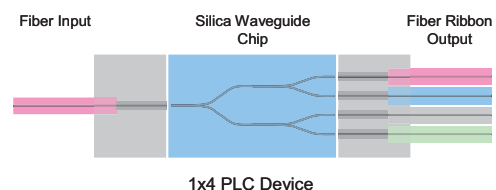
- 1x2, to 1x64 standard configurations
- 2x2 to 2x32 for test access and redundancy
- Wideband performance
- Low insertion loss
- Low back reflection
- Low PDL (Polarization Dependent Loss)
- Low WDL (Wavelength Dependent Loss)
- Low TDL (Temperature Dependent Loss)
- High output uniformity
- Stable optical performance
- According to Telcordia GR-1209 and GR-1221
- Bend insensitive fiber G.657 A compliant
- Compact package for mounting into splice cassettes

Design

The splitters are design to meet the requirements for a wide range of fiber optic communications systems. The wideband performance makes them especially suitable for PON FTTx networks. Low loss under extreme environmental conditions ensures stable operation. Very compact packages with bend resistant fiber allow these modules to be installed into small compartments such as joint closures, Fiber Distribution Hubs (FDH) or fiber termination panels.

Description

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 1x2 to 1x64 as well as with dual fiber inputs 2x2 to 2x32. Input ports are of 250µm primary coated fiber. Output ports are of fiber ribbon design with 2, 4 or 8 fibers and in multiples 1-8 depending on the split ratio of the device.

The modules are designed for stable performance according to Telcordia GR-1209, GR-1221 as well as IEC 67153-031-3/-6.



Broadband Fiber Optic Splitters– RDB 10416

Specifications

Optical properties

Operating Wavelength 1260 ~ 1360, 1450 ~ 1625 nm
 Directivity >55dB
 Return Loss >55dB
 Maximum input power 500mW
 Max attenuation see table below
 Max uniformity see table below
 PDL see table below

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.

Conformance

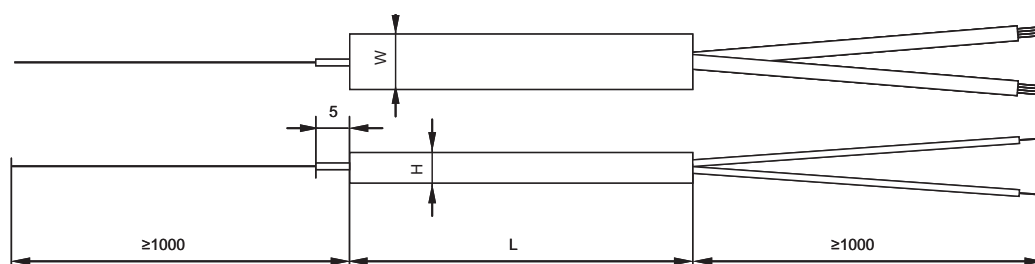
ITU-T G.657 A
 Telcordia GR-1209
 Telcordia GR-1221
 IEC 67153-031-3/-6
 IEC 61754-4
 IEC 61754-6
 IEC 61754-20
 RoHS Directive

Fiber type

Bend resistant singlemode fiber according to
 ITU T G.657 A (G.652 D compliant)
 Input 250 µm primary coated
 Output 2, 4 or 8 fiber ribbon

Temperature and humidity

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



Ordering Information

Note that the splitters are available in two main configurations with single fiber input or dual fiber input. Splitters with other configurations, packaging options and performance grades are available upon request.

PRODUCT NUMBER	SPLIT RATIO	INSERTION LOSS* (MAX) DB	UNIFORMITY* (MAX) DB	PDL (MAX) DB	DIMENSIONS MM (L X W X H)	INPUT/OUTPUT FIBERS
RDB 10416 02/1100	1x2	4,0	0,6	0,3	60x4x4	1-f / 2-f ribbon
RDB 10416 04/1100	1x4	7,6	0,8	0,3	40x4x4	1-f / 4-f ribbon
RDB 10416 08/1100	1x8	11,0	1,0	0,3	40x4x4	1-f / 2x4-f ribbon
RDB 10416 32/1100	1x32	17,4	1,7	0,3	50x7x4	1-f / 4x8-f ribbon
RDB 10416 64/1100	1x64	21,0	2,5	0,3	55x12x4	1-f / 8x8-f ribbon
RDB 10416 02/1200	2x2	4,3	0,9	0,4	60x4x4	2-f / 2-f ribbon
RDB 10416 04/1200	2x4	7,8	1,0	0,4	40x4x4	2-f / 4-f ribbon
RDB 10416 08/1200	2x8	11,0	1,0	0,4	40x4x4	2-f / 2x4-f ribbon
RDB 10416 16/1200	2x16	14,2	1,5	0,4	55x7x4	2-f / 2x8-f ribbon
RDB 10416 32/1200	2x32	17,7	1,8	0,4	60x7x4	2-f / 4x8-f ribbon

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