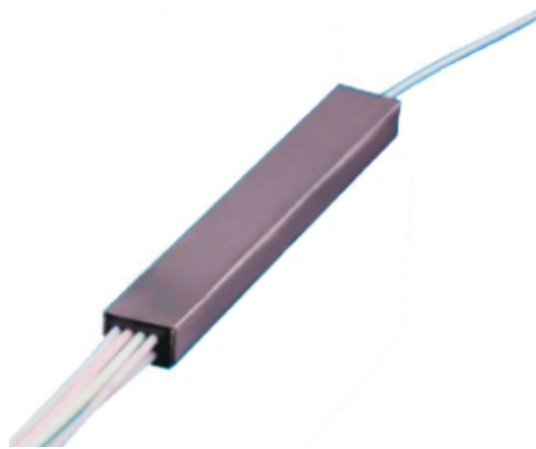


PLC Splitter

Pre-connected Planar Lightwave Circuit (PLC) Splitter



The PLC principle is based upon a substrate in which a pattern is etched that divides light symmetrical. Novobit offers connectorized splitters from 1:4 up to 2:32, with low insertion loss, from 7,3dB (1x4) up to 18,8dB (2x32) and low PDL ($\leq 0,3$ dB up to $\leq 0,45$ dB). Higher port volumes up to 128 ports can be achieved by cascading splitters.

The advantage of PLC splitters is their symmetrical quality and low loss differences per port. BPOB, GPON, GEAPON and XPON networks require symmetrical splitters, as well as an analogue video overlay in P2P networks requires symmetrical splitters.

Novobit delivers splitters connectorized with any of the connectors in the portfolio. Also in DLX modules with connectors and adapters, optionally together with a 19" patch panel for installation in a 19" cabinet.

Temperature Properties

Service	-40°C to +85°C
Storage	-40°C to +85°C

Applications:

The Novobit pre-connected PLC Splitter is produced for the distribution and access networks in FTTH, FTTP, FTTN and FTTC applications. Other applicable applications are Passive optical networks (PON), Fiber optic equipments and systems, and Local area networks (LAN).

Options

Following parameters are customer specific:

- Length of the fibers
- Fiber type
- Connector type

Specifications and Performance

	1x4	1x8	1x16	2x16	1x32	2x32
Insertion loss [dB]	≤ 7.3	≤ 11.0	≤ 14.0	≤ 14.3	≤ 18.0	≤ 18.8
Uniformity [dB]	≤ 1.0	≤ 1.0	≤ 1.5	≤ 2.5	≤ 2.0	≤ 2.5
PDL [dB]	≤ 0.3	≤ 0.3	≤ 0.4	≤ 0.4	≤ 0.45	≤ 0.45
Return loss [dB]	≥ 50					
Directivity [dB]	≥ 55					