1xN Ultra Broadband Splitter Series

Product description

Our **1xN planar waveguide splitters** are first choice as uniform broadband power splitters / combiners in a large variety of telecom and sensor applications. Based on ion exchange in glass they optimally balance performance versus cost. Sophisticated design and manufacturing methods give these splitters extraordinary quality and reliability and make them especially suitable for use in harsh environments. Standard products include 1x2, 1x4, 1x6, 1x8, 1x10, 1x16, 1x32 and 1x64 configurations, customized designs (N $\neq 2^n$, asymmetric splitting, lower wavelength range) are available upon request.

Highlights

- Lowest insertion loss
  -> **flexibility in your network design**
- Highest uniformity
  -> **less restrictions during installation**
- Lowest PDL
  -> **upgradability to highest data rates (100 Gbps)**
- Excellent long term stability (since 1993 in the field)
  -> **reduced maintenance costs**
- Flexible fiber pigtail assembly
  -> **specific customer requirements**

Optical specifications*)	1x2	1x4	1x6	1x8	1x10	1x16	1x32	1x64
Insertion loss IL (max.) [dB]	3,9	7,4	9,2	10,8	12,0	13,7	17,0	21,0
Uniformity (max.) [dB]	0,5	0,9	0,9	1,0	1,2	1,3	1,6	2,3
Return loss RL [dB]	≥ 55							
Directivity [dB]	≥ 55							
Polarisation dependent loss PDL [dB]	≤ 0,15							
Wavelength range [nm]	1260 - 1360 and 1480 - 1650							

Mechanical and environmental specifications								
Fiber Type**)	single-mode fiber ITU G.652.D							
Fiber pigtail length [m]**)	≥1							
Housing dimensions [mm]***)	40x4x4				50x4x4		60x4x7	70x12x7
Operating temperature [°C]	-40 bis +85							
Storage temperature [°C]	-40 bis +85							

*) Note: Valid over full operating wavelengths and temperature ranges for all states of polarization

**) Other fiber / cable types with and without connectors and modified packages on request

***) New miniaturized stainless steel housing, other housing options on request

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Order code		V		x												
Number of input channels N	Code															
1	1															
2	2															
4	4															
…	…															
Number of output channels N																
Code see input channels																
Input Fiber																
Input fiber type																
250 µm bare fiber	10															
900 µm tbf fiber (tight buffered)	20															
900 µm fiber with tubing (loose tube)	30															
N-fold fiber ribbon	40															
Output fibers																
Code see input fiberss																
Input connector																
Without connector	NC															
FC	10															
SC	20															
ST	30															
LC	40															
E2000	50															
MU	60															
DIN	70															
SMA	80															
MPO N fibers (nn = 04, 08 or 12)	1nn															
Endface polishing PC	+P															
Endface polishing APC	+A															
Output connectors																
Code see input connector																
Options																
e.g. grade																
Standard	ST															
High Quality	HQ															
Customer specification	CU															

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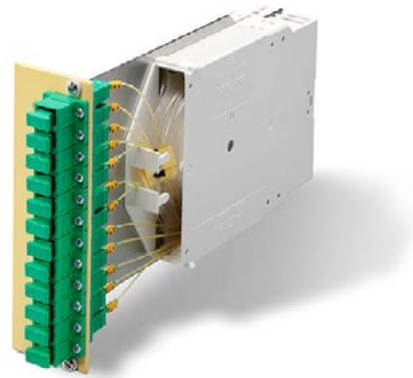
Order code / order options

Please select the order code out of the table given on the previous page.
For special customized modifications please contact us. We offer the standard splitters for telecommunication wavelengths as well as splitters for other wavelength ranges and with further optical functionalities.
Additionally customized packaging like cassettes or shelves for 19" racks can be offered.

Example: **V1x81010NCNCST** is the order code for a standard splitter 1x8 with 250 µm input and output fibers without connectors.

Modul options

We offer a wide range of splitter assemblies in modules and racks. Customized assemblies are available on request.

Example for a modul assembly: Splitter 3-fold 1x4 in a vertical plug-in module 3 HU with connectorized output fibers and input fibers mounted into a splicing cassette