

2xN Broadband Splitter Series

Product description

The **2xN 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 2x2, 2x4, 2x8 and 2x16. Upon request, 2x32 is also available as well as components for different wavelength ranges.

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*)	2x2	2x4	2x8	2x16	2x32
Insertion loss IL (max.) [dB]	4,2	7,8	11,2	14,5	18,0
Uniformity (max.) [dB]	1,2	1,5	2,0	2,5	2,5
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 specification					
Fiber Type**)	single-mode fiber ITU G.652.D				
Fiber pigtail length [m]**)	≥ 1				
Housing dimensions [mm]***)	4 x 4 x 60		4 x 7 x 70		
Operating temperature [°C]	-40 to +85				
Storage temperature [°C]	-40 to +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 metallic housings**

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Order code	V	x																		
Number of input channels N	Code																			
2	2																			
4	4																			
8	8																			
...	...																			
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 fibers																				
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

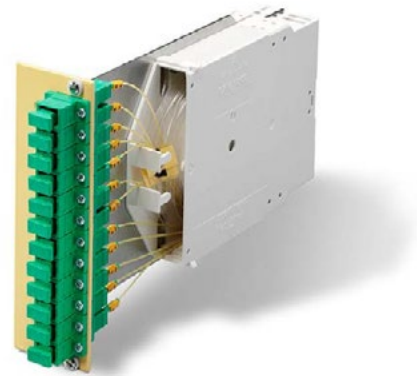
Please select the order code out of the table given on the previous page.

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: **V2x81010NCNCST** is the order code for a standard splitter 2x8 with 250 μ m 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 module 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