

OptiConcepts 1xN Packaged Splitter



Key Features & Benefits

- Low Insertion Loss
- Low Polarization Sensitivity
- Protective Housing
- Custom Configurations Available

Markets & Applications

- Lab Testing
- LAN
- Manufacturing
- FTTX
- Developmental Simulation
- OEM

Overview

OptiConcepts 1xN Packaged Splitter allows for transmission of a coupled optical signal to a branch of distributed fiber outputs. The 1xN Packaged Splitter desktop design allows power distribution from a single input to multiple outputs ranging from 1x2 to 1x32 single-mode and 1x2 to 1x16 multimode configurations. Application of uses include lab testing, LAN, FTTX, simulation development, and OEM systems. Housed in a protective aluminum housing, OptiConcepts Packaged Splitters assure consistency of power distribution in various situations. The small, lightweight design allows for easy portability, storage, and reduced bench-top space. Many custom configurations are available.

OptiConcepts

1xN Packaged Splitter



Specifications

Physical		
1 x N ≤ 4	Weight: ~1 lb. (.45kg)	Dims: 6.3* x 4.1 x 1.2in (16 x 10.4 x 3.05cm)
1 x N ≤ 16	Weight: ~3.9 lb. (1.8kg)	Dims: 10.0* x 7.0 x 2.5in (25.4 x 17.78 x 6.35cm)
Exterior Construction		Anodized Aluminum
*may increase based on connector adapter selected		
Environmental		
Operational Temperature		0° to 50°C
Storage Temperature		-10° to 60°C
Humidity		≤95% RH, Non Condensing
Optical		
Operating Wavelengths (nm±40)		Dual MM: 850/1300nm; Dual SM: 1310/1550nm
Fiber Type		50um, 62.5um, or Single-mode
Coupling Ratio		typically even split; uneven ratios available
Directivity (dB)		MM ≥ 40; SM ≥ 50
Configurations		MM: 1x2 to 1x16 SM: 1x2 to 1x32

Single-mode Parameter	Value (others available)						
Product Type	1x2	1x3	1x4	1x6	1x8	1x12	1x16
Operation Wavelength (nm)	1260-1650	1260-1650	1260-1650	1260-1650	1260-1650	1260-1650	1260-1650
Insertion Loss, Typical (dB)*	3.6	6	7	9.2	10.3	12.2	13.6
Uniformity (Max.) (dB)	0.5	0.6	0.8	0.8	0.8	1.2	1.5
PDL(Max.) (dB)	0.2	0.3	0.3	0.3	0.3	0.3	0.3
TDL(Max.) (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Return Loss (dB)	≥ 50						
*Insertion Loss does not include connector loss (0.2dB/connector), typical							

Multimode Parameter	Value (others available)			
Product Type	1x2	1x4	1x12	1x16
Operation Wavelength (nm)	850-1300	850-1300	850-1300	850-1300
Insertion Loss, Typical (dB)*	4	8	16	32
Return Loss (dB)	≥ 40			
*Insertion Loss does not include connector loss (0.2dB/connector), typical				

OptiConcepts

1xN Packaged Splitter

Ordering Information

Part Number	Description
FW-SP1XNABC	Packaged 1xN Splitter

N=Number of Outputs 1-32

A=Fiber Type S=Single Mode 5=50um 6=62.5um

B=Common Connector Port 1=FC 2=FCA 3=SC 4=SCA 5=ST 6=LC 7=LCA 8=MPO/MTP

C=Output Connector Port(s) 1=FC 2=FCA 3=SC 4=SCA 5=ST 6=LC 7=LCA 8=MPO/MTP

[1XN Packaged Splitter Part Number Example]

FW-SP1X2S34 - 1X2 Splitter Single-mode SC Common Port, SCA Output Ports

Quality Statement

OptiConcepts is committed to providing high quality, easy to use test equipment by integrating customer needs into world-class engineered products and systems.



designed and built in the USA

OptiConcepts, Inc. • Hickory, NC 28601 • Tel: 828.320.0138 • www.opticoncepts.com • email: info@opticoncepts.com

©2018 OptiConcepts, Inc. • FiberWarrior, OptiLin, and PWRScan are trademarks of OptiConcepts • Other trademarks are property of their respective owners • LIT-306A