

## Passive Optical Networks

### Narrowcast/Broadcast CATV Combiners in LGX Casings



#### INTRODUCTION:

**Fibrain Narrowcast/Broadcast CATV combiners** are scalable modules mounted in LGX2 and supplied with SC/APC connectors. The combiners operate in both 1310 and 1550 nm windows. They are characterized by low excess loss, high attenuation uniformity, and low PDL and are available in 4x4 and 8x8 versions.

#### APPLICATIONS:

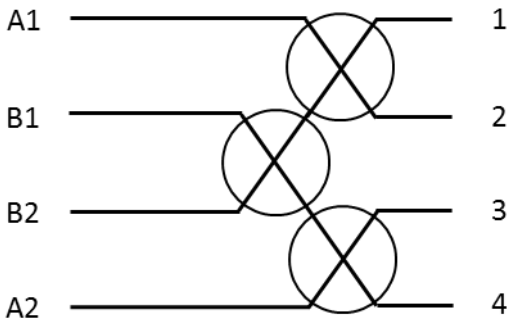
- Telecommunications,
- CATV,
- Other optical networks

#### ADVANTAGES AND FEATURES:

- Good attenuation uniformity,
- Low excess losses,
- Low PDL,
- Two windows of operation: 1310 and 1550 nm,
- Temperature of operation: -20/+65 °C,
- 900 µm loose tube output.

#### TECHNICAL SPECIFICATIONS:

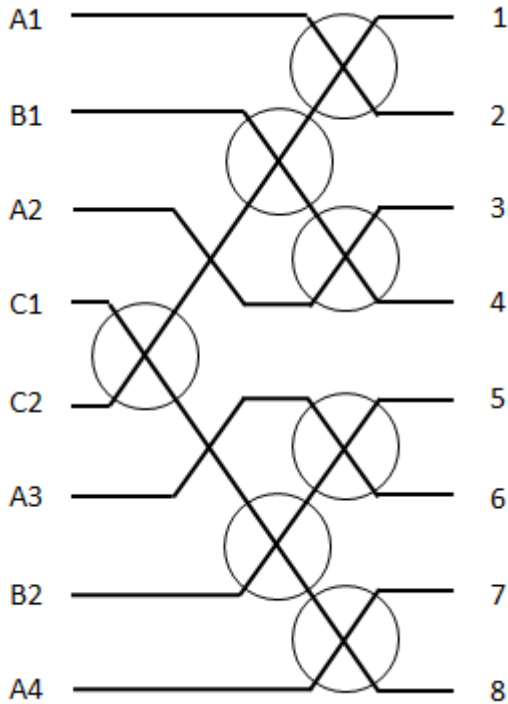
##### 4x4



Parameter	Value
Operating Wavelength Range	1310 ± 30 nm & 1550 ± 30 nm
Insertion Loss A1, A2	≤ typ. 3.5 dB (max. 3.9 dB)
Insertion Loss B1, B2	≤ typ. 6.6 dB (max. 7.0 dB)
Ripple	≤ 0.5 dB
PDL	≤ 0.3 dB
Directivity	≥ 55 dB
Return Loss	≥ 55 dB
Max. Optical Power	500 mW
Uniformity	< 0.5 dB
Fiber Type	Corning SMF-28e
Pigtail Type	900 µm Loose Tube
Connector Type	SC APC
Package Dimensions	158x100x55 mm
Operating Temperature	-20 - + 65°C
Storage Temperature	-40 - + 85°C

## Passive Optical Networks

8x8



Parameter	Value
Operating Wavelength Range	1310 ± 30 nm & 1550 ± 30 nm
Insertion Loss A1, A2, A3, A4	≤ typ. 3.5 dB (max. 3.9 dB)
Insertion Loss B1, B2	≤ typ. 6.7 dB (max. 7.5 dB)
Insertion Loss C1, C2	≤ typ. 10.2 dB (max. 10.8 dB)
Ripple	≤ 0.5 dB
PDL	≤ 0.3 dB
Directivity	≥ 55 dB
Return Loss	≥ 55 dB
Max. Optical Power	500 mW
Uniformity	< 0.5 dB
Fiber Type	Corning SMF-28e
Pigtail Type	900 μm Loose Tube
Connector Type	SC APC
Package Dimensions	158x100x55 mm
Operating Temperature	-20 - + 65°C
Storage Temperature	-40 - + 85°C

### ORDERING INFORMATION:

Series	Type	Quality	Fiber	Qty / Type	Wavelength	Connector type
LGX	1 – single	G0/G1	1 – G.652D	044 – combiner 4x4	35 – 1310/1550 nm	SC
	2 – dual		2 – G.657A	088 – combiner 8x8		SCA
	x – other					LC
						LCA
						FC
						FCA
						E20
						E2a
						X - other

Ordering example: LGX2-G0-2-044-35-SCA – Narrowcast/Broadcast CATV Combiner in double width LGX, G.657A fiber, 4x4 combiner type, 1310/1550 nm wavelength, SCA connectors.

#### Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.