# Single Mode Broadband Fiber Coupler

Nanovation's Single Mode Broadband Fiber Couplers feature excellent uniformity and stability over a wide bandwidth range. These couplers are used to passively combine or split light between two or more single mode fibers and are fabricated using a fused biconical taper technique. They are Bellcore GR-1209-CORE compliant and are targeted toward telecommunications, CATV and access network applications.

## Features

- Wide bandwidth
- Low insertion loss
- Excellent performance
- High stability and reliability

## Applications

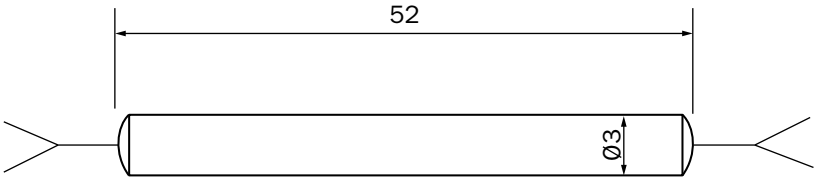
- Telecommunications
- CATV networks
- Access networks

## Optical Parameters

| Parameter | Single Window | | Dual Window | |
|---|---|---|---|---|
| Center Wavelength (nm) | 1310 or 1550 | | 1330/1550 | |
| Operating Bandwidth (nm) | ±40 | | | |
| Grade | P | A | P | A |
| Excess Loss (dB) | ≤0.1 | ≤0.2 | ≤0.15 | ≤0.3 |
| Insertion Loss (dB) | ≤3.4 | ≤3.6 | ≤3.6 | ≤3.9 |
| Uniformity (dB) | ≤0.6 | ≤0.9 | ≤0.8 | ≤1.2 |
| Polarization Dependent loss (dB) | ≤0.1 | ≤0.15 | ≤0.15 | ≤0.2 |
| Directivity (dB) | ≥55 | | | |
| Operating Temperature (°C) | -40 to +70 | | | |
| Storage Temperature (°C) | -40 to +85 | | | |

## Mechanical Packaging Diagram (mm)

(All dimensions are in mm; drawings are not to scale.)




## Ordering Information

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Adapter/Connector Type
- 0: No connector
- 1: FC/UPC (standard)
- 2: FC/APC
- 3: SC/UPC
- 4: SC/APC
- 5: LC
- 6: FC
- 7: SC
- 8: ST
- 9: Other

Pigtail Fiber Length
- 0: Standard length = 1 m (standard)
- 1: User specify

Fiber Type
- 0: Standard single-mode (standard)
- 1: User specify

Adapter/Connector
- A: Adapter
- B: Bbare Fiber
- C: Connector

Coupling Type
- 1: 1x2
- 2: 2x2

Grade
- A: A grade
- P: P grade

Wavelength
- 131: Single Window 1310nm
- 155: Single Window 1550nm
- 135: Dual Window 1310/1550nm

**To order or for additional information, please contact us at:**

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