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## Truly Fused Multimode (MM) Star Fiber Optic Couplers & Optical Splitters (Nx3 &Nx4)

Multimode (MM) fused bidirectional fiber optic star couplers & Optical Splitters are capable of operating over a broad wavelength range (i.e. 850nm and 1300nm). Multimode couplers are typically used for short distance data transmission. Gould multimode fused couplers can be used within fiber optic instrumentation, sensor systems and local area networks.

Our couplers are manufactured using the fused biconical taper process on fully software controlled automatic fabrication stations. The process consists of placing two or more fibers adjacent to each other, then fusing and stretching them to create a central coupling region. A fused coupler is a structure formed by two independent optical fibers. Please visit our [Fused Biconical Taper \(FBT\)](#) page for more information.

Gould Fiber Optics uses our patented [GlasSolder process](#) for making a glass to glass bond between optical fibers and silica substrate. This technique produces a uniform "solder" bead that affixes the fiber to the substrate to provide exceptional longevity in mechanical and environmental stability.

Gould's Truly Fused Multimode (MM) Star Fiber Optic Couplers & Optical Splitters (Nx3 &Nx4) can be manufactured using different fiber types such as 50/125um, 62.5/125um, 100/140um, and OFS 100/140/250um 0.2NA Graded Index.

Available in port configurations Nx3 and Nx4. Custom options are available upon request

### Features

- Low Optical Loss
- Broad Operational Wavelength Range

### Applications

- Fiber Optic Instrumentation
- Local Area Networks

### Optical Specifications for Multimode (MM) fused bidirectional fiber optic star couplers.

Truly Fused Multimode Star Couplers		
Port Configuration	Insertion Loss (dB)	Uniformity (dB)
1x3	≤6.2	≤1.0
Nx3 (N>1)	≤6.7	≤2.0
1x4	≤7.5	≤1.0
Nx4 (N>1)	≤8.0	≤2.0

In addition to the above configurations, Gould can build Nx5, Nx6 & up to Nx20. For uneven split configurations and concatenated multimode components, please contact sales.

### Ordering Information

[Request a Quote »](#)

#### Fused Multimode star

Multimode & Large Core

Multimode Modal Insensitive

#### Quality

Gould Fiber Optics is ISO 9001:2015 Certified, ITAR registered, Telcordia GR-1209 and GR-1221 compliant for product qualifications and ROHS compliant.

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