

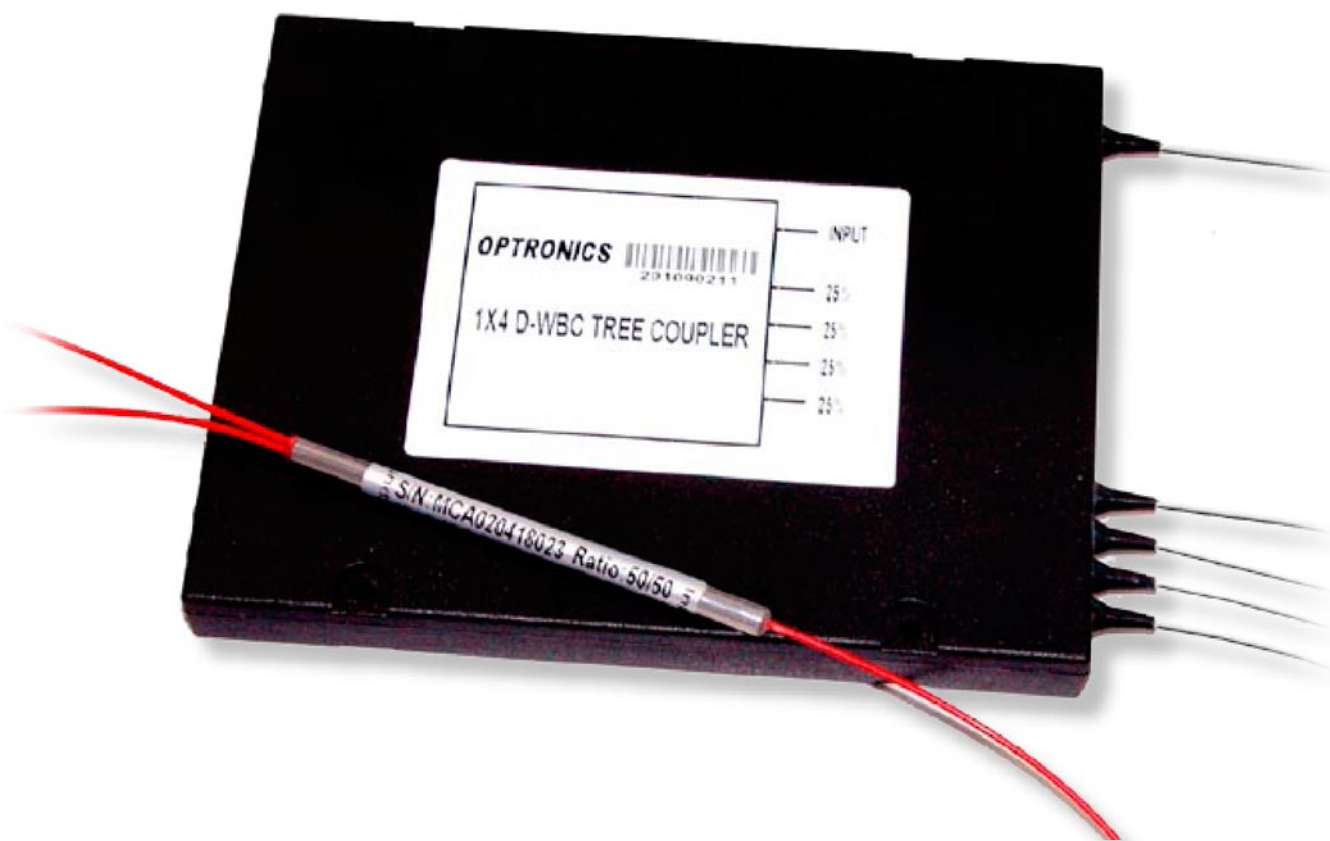
Single mode Splitters & Couplers

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OPTRONICS

Optronics fused, high-performance couplers offer superior optical performance. Low insertion loss, low PDL, low back reflection and high directivity are achieved by utilizing FibreFab advanced fusion technology and state-of-the-art manufacturing process. This makes for consistent high-performance couplers that are designed for the end user's specific applications. A variety of standard coupler packages and pigtail options are available as well as connectorized versions, if required. Nonstandard devices can be supplied on request. All Optronics couplers conform to stringent environmental and mechanical standards to give high reliability for a variety of field applications. Optronics couplers are designed in accordance with Telcordia 1209 and 1221 standards for network applications requiring superior performance and long-term reliability. They are available in multiple split ratios with 250mm, 900mm, 3mm heavy-duty jacketed single mode fiber, LGX modules and cassette enclosures for a variety of applications from signal monitoring to distribution. Optronics Fiber Optic couplers come to you from a world class manufacturing facility backed by years of experience in manufacturing fiber optic passive & active devices.

Singlemode Fibre Coupler SINGLEMODE COUPLER



Applications

- ▶ Fibre to the Home (FTTH)
- ▶ Local loop
- ▶ Passive Optical Networks (PON)
- ▶ Fibre optic CATV
- ▶ Fibre communication systems
- ▶ Fibre optic test equipment
- ▶ Fibre optic sensing
- ▶ Local Area Networks (LAN)

Features

- ▶ All fibre construction
- ▶ High reliability
- ▶ Outstanding optical performance
- ▶ Different fibre types available.

Single mode Splitters & Couplers

Description

The Optronics optical fibre splitters/couplers are manufactured using the best quality components. The connectors are the market leading Optronics range of connectors, and the cable exceeds all areas of the standards.

The Optronics range of products has grown through the years, from industry standard patch cords to specialist Mode conditioning patch cords, FibreFab can supply them all.

Non-standard products can be made to your own exacting standards in our ISO 9001 production facility. This encompasses all of the essential tools to ensure the products not only meet, but exceed the requirements laid down by the IEC international standards for fibre optic terminations.

Fibre Optic Couplers

1 x 2 couplers in test can conform to Bellcore TR-NWT-001209. There are two sized multimode couplers; the larger version measures (L)100mm, (W)80mm,(H)9mm whilst the compact version, only available as a 1x2, measures (L)100mm, (W)19mm, (H)9mm. Multimode couplers are available as both Symmetric and Asymmetric. Singlemode couplers are available as Standard, Wavelength Flattened and Wide band.

The operating temperature of the couplers is -40°C to +85°C whilst the storage temperature is -50°C to +85°C.

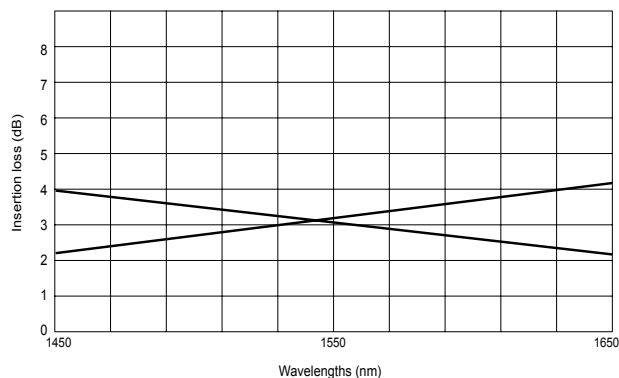
Product Packaging

Each Splitter is packaged individually and individually identified for traceability, test certification is supplied for each assembly.

For full information on other Optronics products please contact FibreFab at the address below for a connector data sheet.

Item	Unit	Parameter		
Center Wavelength	nm	1310 or 1550		
Bandwidth	nm	±20		
Coupling Ratio	%	5 ~ 50		
Grade		s	a	b
Typical Excess Loss	dB	0.07	0.15	0.30
Max. Polarization Dependent Loss	dB	0.1	0.15	0.20
Min. Directivity	dB	55	50	0.20
Max. Uniformity (50:50)	dB	0.9	1.2	1.6
Operating Temperature Coefficient	dB/°C	0.002		
Operating Temperature	°C	-40 ~ +75		
Storage Temperature	°C	-40 ~ +85		
Package Dimensions	mm	C: ø3.0 x 54		
Package Dimensions	mm	F: ø3.0 x 65		
Package Dimensions	mm	M: 100 x 19 x 9		
Package Dimensions	mm	O: 100 x 80 x 9		
Package Dimensions	mm	L: 120 x 80 x 18		
Package Dimensions	mm	S: 140 x 114 x 18		

Wavelength Dependence of Insertion Loss 50/50



Intermateability

Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

Ordering Information

For ordering information contact FibreFab sales office.