

Optical Fiber Couplers For Precision Spaceborne Metrology

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Optical Fiber Couplers For Precision

Optical fiber couplers for precision spaceborne metrology CHRISTIAN J. KILLOW,^{1,*} EWAN D. FITZSIMONS,^{1,2} MICHAEL PERREUR-LLOYD,¹ DAVID I. ROBERTSON,¹ HENRY WARD,¹ AND JOHANNA BOGENSTAHL³ ¹Scottish Universities Physics Alliance (SUPA), School of Physics and Astronomy, Institute for Gravitational Research, University of Glasgow, Glasgow G12 8QQ, UK

Optical fiber couplers for precision spaceborne metrology

We describe the optical and mechanical design, construction philosophy and testing of a pair of matched, spaceflight-qualified fiber couplers. The couplers were developed for the LISA Pathfinder mission but are relevant for other applications – both on ground and in space – where a robust fiber coupler with well controlled beam parameters and stable beam pointing is required.

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Optical fiber couplers for precision spaceborne metrology Christian J. Killow, Ewan D. Fitzsimons, Michael Perreur-Lloyd, David I. Robertson, Henry Ward, and Johanna Bogenstahl
Author Information

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Optical fiber couplers for precision spaceborne metrology ...

Diode Laser Light Coupling. The F-1015LD Precision Single-Mode Fiber Coupler is made to couple a laser diode source to an optical fiber using the same mechanisms as Model F-1015. The F-1015LD has a steering lens with an AR coating for high transmittance at 850, 1300, and 1550 nm. It comes equipped with an F-LA22.

Precision Single-Mode Fiber Couplers - Newport

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F-CPL-B14350-FCAPC Optical Fiber Coupler, Broadband, 1 x 4, 1310/1550 nm, ± 40 nm, FC/APC

Fiber Optic Couplers - Newport

This tab provides a brief explanation of how we determine several key specifications for our 1x2 couplers. 1x2 couplers are manufactured using the same process as our 2x2 fiber optic couplers, except the second input port is internally terminated using a proprietary method that minimizes back reflections.

Fiber Coupler Tutorials - Your Source for Fiber Optics ...

Ideal Fiber Optic Strippers; Miller 400 Fiber Jacket Slitter; Miller Fiber Drop Strippers; Miller

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Fiber Optic Strippers, FO103-S Series; Miller Multi-Functional Fiber Optic Strippers; Miller No-Nik Fiber Optic Stripper; Miller Jacket Stripper

Fiber Optic Products Manufacturers - Precision Fiber Products

Fused Fiber Optic Couplers / Splitters Thorlabs offers a varied selection of single mode (SM), polarization-maintaining (PM), multimode (MM), and double-clad fiber couplers, as well as single mode 1x8 and 1x16 PLC waveguide splitters, wideband multimode circulators, RGB combiners, and WDMs.

Fused Fiber Optic Couplers / Splitters - Thorlabs

Optoscribe 's Precision Fiber Alignment Structures (OptoArray™) are capable of solving many of the challenges with the drive for high density optical connections. The company is located in Livingston, UK, where it has a state-of-the-art manufacturing facility.

PRECISION OPTICAL FIBER ALIGNMENT STRUCTURES

Fiber Optic Coupler is manufactured by placing two or more fibers adjacent to one another, after fusing and stretching them, thus creating a coupling region. The heated area is stretched until the desired coupling properties are achieved. This device is called a fused biconical taper (FBT) coupler.

Fiber Optic Couplers and Splitters Tutorial

High precision fiber coupler (fiber port) optimized for high pointing stability and long-term stability. Efficient coupling of collimated laser radiation into single-mode and PM fiber cables. For single-mode or PM fiber cables. System mount Ø 19.5 mm. Integrated TILT and focusing adjustment.

Laser Beam Coupler 60SMS - sukhaburg.com

A fiber optic coupler is an optical device capable of connecting one or more fiber ends in order to allow the transmission of light waves in multiple paths. The device is capable of combining two or more inputs into a single output and also dividing a single input into two or more outputs.

What is a Fiber Optic Coupler? - Definition from Techopedia

Gould 's High Precision Single Mode (SM) Fiber Optic TAP Couplers & Optical Splitters can be manufactured using different fiber types such as Corning SMF-28® Fiber, Nufern 630-HP, Corning HI-1060 and Corning HI-780 and available in various tap ratios such as 0.1%, 0.01%, 0.001% with operating wavelengths ranging from 630nm to 1620nm.

High Precision Single Mode (SM) Fiber Optic TAP Couplers ...

The precision of the alignment of the eight-by-eight fiber array was demonstrated to be less than 2 µm. The average concentricity error of the fibers to the positioning holes of the array coupler had a minimum and maximum error of 1.7 µm and 6.5 µm, respectively.

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Manufacture of a 2D optical fiber array coupler with ...

Radiation from single emitter diodes or diode bars can be coupled into an optical fibre with a diameter of between 50 μm and 600 μm , which substantially improves the laser beam quality and also enables beam delivery to the point of application, which is essential for medical applications, for example.

Optical Fiber Coupling - an overview | ScienceDirect Topics

Features High precision fiber coupler optimized for high pointing stability and long-term stability - specially designed for SMA-905 high power connectors with 0 °, 5 ° or 8 ° -polish. Efficient coupling of collimated laser radiation into single-mode and PM fiber cables including PCF fibers. Focal lengths up to 30 mm

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