High Power Fiber Optic Components

OZ Optics Limited

September 2025

OZ Optics
shop.ozoptics.com
www.ozoptics.com

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Company Background

- **Founded in 1985**
- **Corporate headquarter located in Ottawa, Canada**
- **Manufacturing facility in Ottawa / Canada, Izmir / Turkiye and Jiaxing / China**
- **12 Product Groups:**
  - Laser-to-Fiber Delivery Systems
  - High Power Fiber Optic Components
  - Polarization Maintaining Products
  - Attenuators
  - Opto-Electronic Packaging
  - Fiber Optic Test Equipment
  - Fiber Optic Sensor Systems
  - Fiber Optics Components for Gyroscope
  - Fiber Optics Components for OCT
  - Fiber Optics Components for BioPhotonics
  - Fiber Optics Components for Quantum
  - Fiber Optics Components for AI Optical Connectivity
- **Sales offices in Canada, USA, Europe, Turkiye and China**

Ottawa, Canada

Izmir, Türkiye

Jiaxing, China

Corporate Statements and Quality Policy

Our Vision

- Capture and expand market share
- Be the preferred supplier of choice
- Maximize shareholder value

Our Mission

To become the leading provider of innovative optical products to telecom and non-telecom sectors

Our Core Values

- Leadership
- Teamwork
- Boldness
- Commitments
- Innovation
- Rewards

Our Quality Policy

Provide our Customers with a competitive advantage, leveraging performance, price and delivery, through a continuous process of Quality advancement in all areas of our Company.

Communicate effectively to our Customers, Suppliers and Shareholders our commitment to Quality, continuous improvement and to abide by any applicable requirements.

Promote opportunities of professional development for all members of our company through education, training and personal challenge.

Company Profile

Over 489 employees worldwide

OZ Canada

240+
Employees

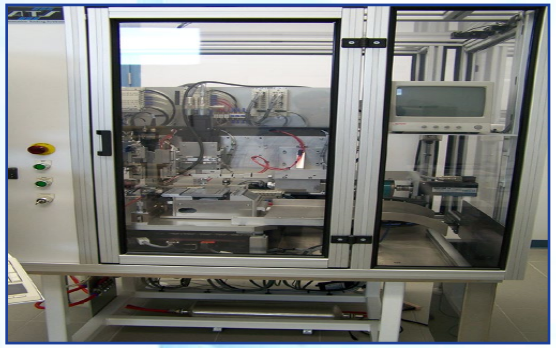
OZ China

120+
Employees

OZ Türkiye

129+
Employees

Company Profile



Advanced Proprietary Processing Technology

Canada
Certificate: FM 63463

China
Certificate: FM 577647

Turkey
Certificate: FM 601414

ISO9001:2015 Certified

Broad Patent Portfolio

Company Profile

OZ Optics is Lead by an Experienced Team:

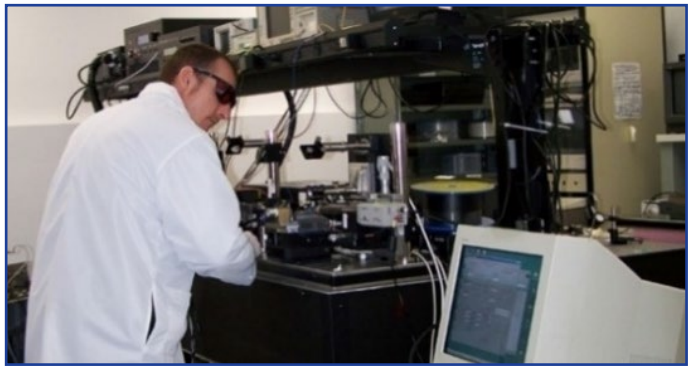
- **Ömür Sezerman, Chairman, President & CEO**
  - Founder and CEO since inception (40 years)
- **Zahide Sezerman, VP of Human Resources**
  - With OZ Optics since inception (40 years)
- **Garland Best, VP of Components Division**
  - 33 years at OZ Optics
- **Gordon Youle, VP of Test Equipment Division**
  - 26 years at OZ Optics
- **Saeed Pilevar, Senior VP of Business Development**
  - 1 year at OZ Optics
- **Onur Koca, General Manager of OZ Türkiye**
  - 3 year at OZ Optics
- **Bing Li, General Manager of OZ Optics China**
  - 21 years at OZ Optics

Company Profile

Experienced and Well-Trained Staff in Following Fields: Optical, Mechanical, Electronics & Software

CNC Machine Shop

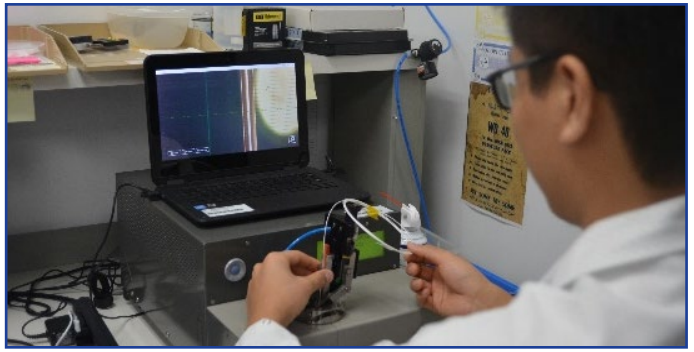
Femto-Second Laser Lab



AR Coating

Clean Room

Laser Conditioning/Cleaving

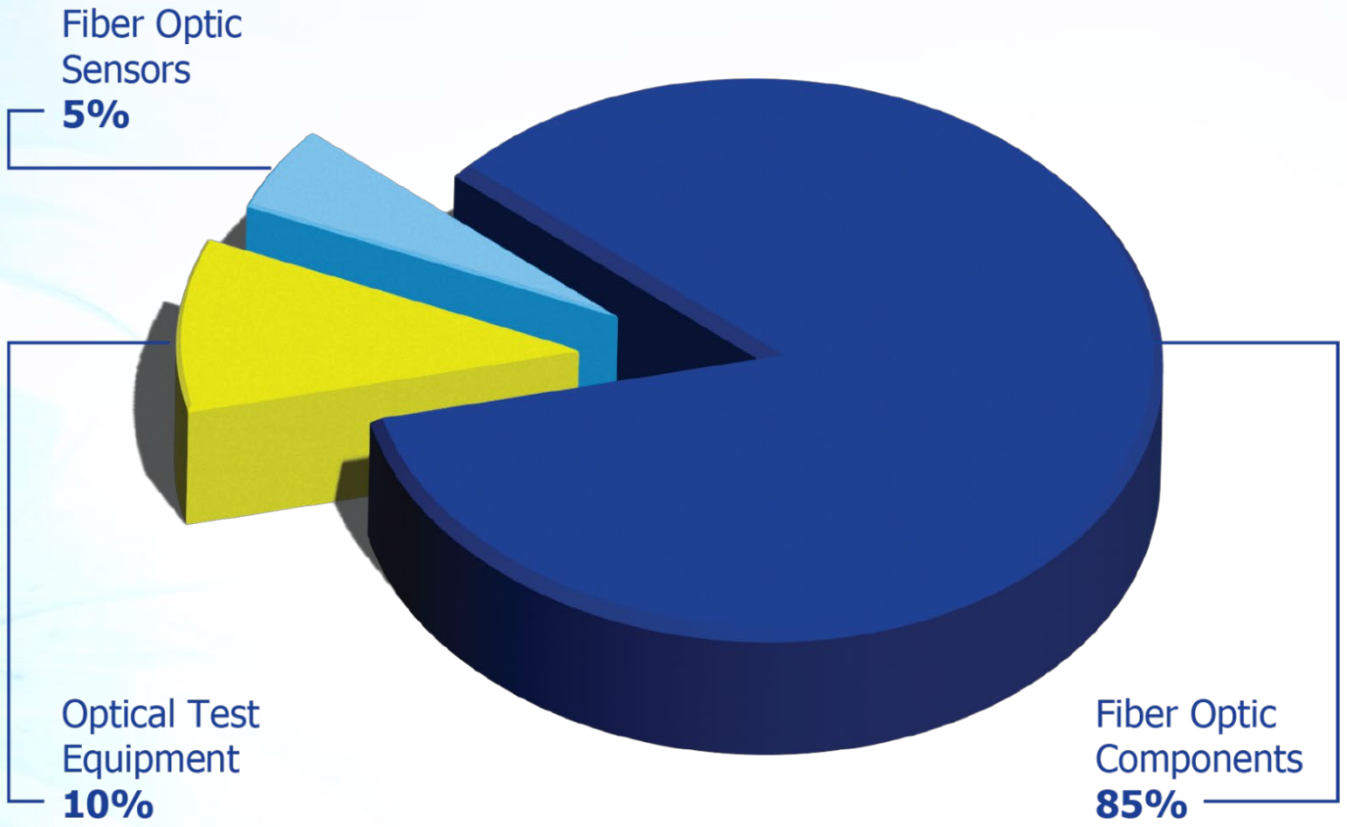


Core Competencies

- Pioneer in Polarization Maintaining (PM) Components & Custom Test Equipment, Including Polarization Test Equipment and FTTH Equipment
- Leader in Wavelength Flattened,
  High Power & Low PDL Components
- Leader in High Power Fiber Optic Delivery Systems
- Widest Range in Attenuator Product Offering
- Fiber Optic Distributed Strain and Temperature Sensors
- Complete product line for AI Optical Connectivity,
  OCT, Gyroscope & BioPhotonics applications & 2 Micron
- Now available: Spectrometers and Quantum Light Sources

Leading Technology

› Three Product Groups › Over 1,000 Products › Leading Edge R&D

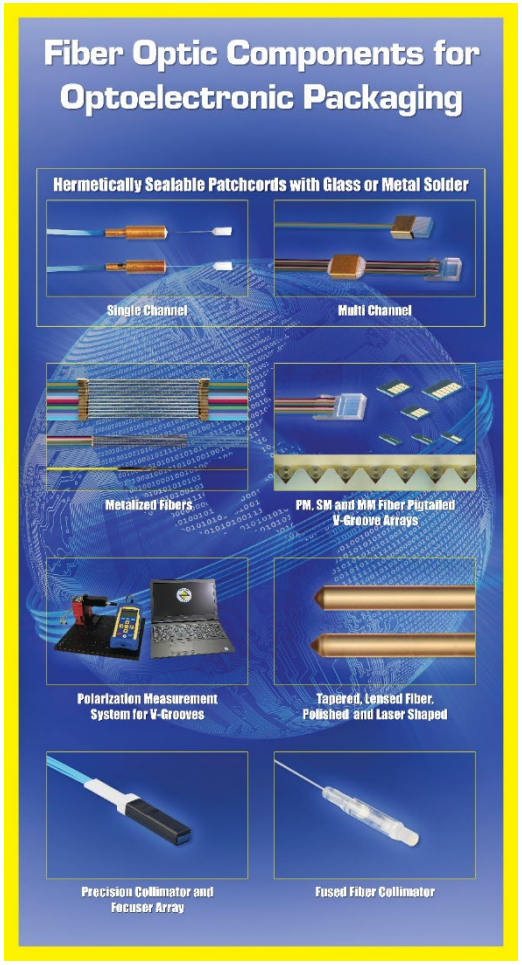


Leading Technology

Featured Products

Leading Technology

Featured Products



Leading Technology

Featured Products

New Fiber Optic Products


Polarization Entangled Photon Sources

High-Resolution Optical Spectrometers


High Speed Electro-Optic Polarization Controllers and Scramblers


Polarization Entanglement Tomography Analyzers


Fiber Optic Coils For Gyroscopes


Universal Optical DNA Rapid Detection Systems for Pathogens


Motor Driven Polarization Dependent Loss Emulators

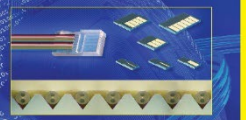

Detector Heads and Optical Power Monitors

Fiber Optic Products for Gyroscopes


Fiber Optic Coils for Gyroscopes


ASE Sources

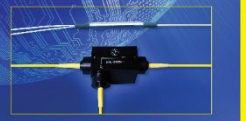

Wavelength Division Multiplexers


PM, SM and MM Fiber Pigtailed V-Groove Arrays


Fused Couplers, Taps, Beam Splitters and Combiners


Fiber Optic Polarizers


Fiber Optic Patchcords


SM and PM Fiber Pigtailed Circulators


Isolators

Quantum Entangled Photons Sources


Hyper-Entangled Photon Source Broadband Telecom


Polarization-Entangled Photon Source Broadband Telecom


Bright Polarization-Entangled Photon Source Broadband Telecom


Bright Polarization-Entangled Photon Source Narrowband Telecom


Correlated Photon Pair Sources


Polarization-Entangled Photon Source Narrowband at 810 nm


Polarization Entanglement Tomography Analyzer

Fiber Optic Products for OCT Applications


OCT Modules

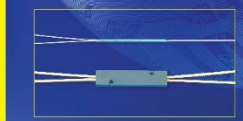

Manual and Electrically Controlled Broadband Variable Attenuators


Manual and Electrically Controlled Fiber Optic Delay Lines


Manual and Electrically Controlled Polarization Controllers / Scramblers


Fiber Pigtailed Broadband SLED Sources

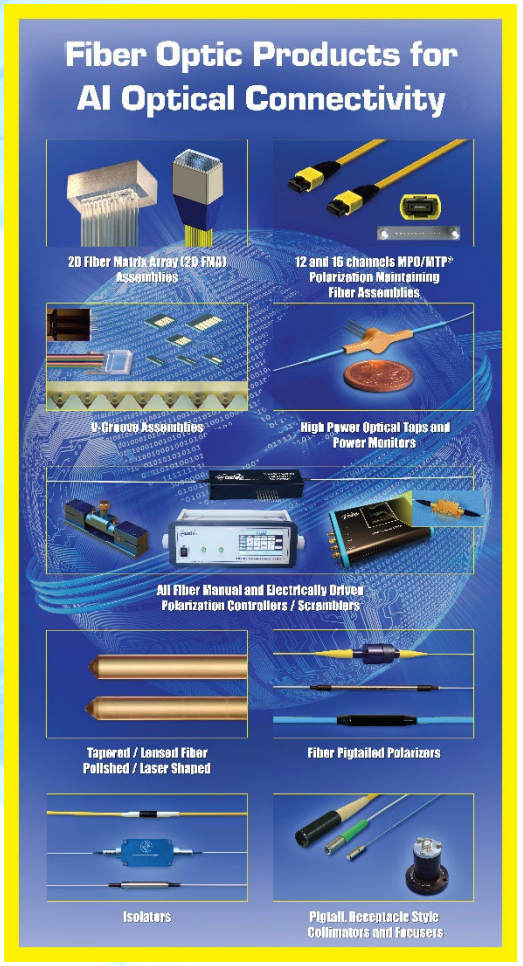

Fiber Collimators / Focusers


Broadband Fused Couplers


SM and PM Fiber Pigtailed Circulators

Leading Technology

Featured Products



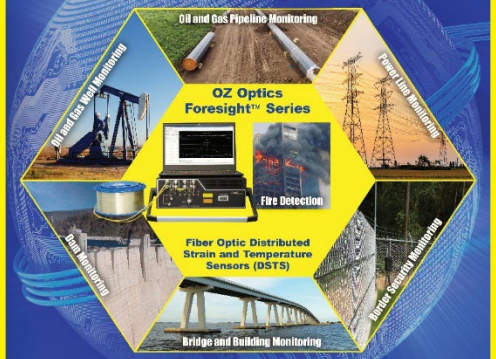
Leading Technology

Featured Products

Fiber Optic Distributed Strain and Temperature Sensors

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fibers to minimize costs



Fiber Optic Sensors for Pipeline Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- Pipeline leakage detection
- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Sensitive detection of corrosion / erosion, cracks and buckling
- Simultaneous measurement of strain and temperature
- Uses standard telecommunication fiber to minimize costs

Pipeline Monitoring

Corrosion and Erosion Monitoring

Fire Detection

Fiber Optic Sensors for Fire Detection

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fiber to minimize costs

Leading Technology

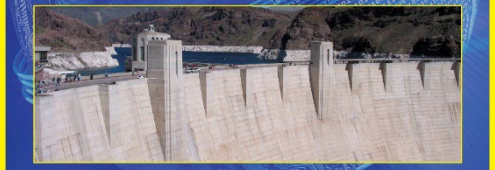
Featured Products

Fiber Optic Sensors for Bridges, Dams and Buildings

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fibers to minimize costs

Bridge Monitoring



Dam Monitoring

Building Fire Detection

Fiber Optic Sensors for Power Line and Smart Power Generator Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunication fiber to minimize costs

Underground Power Line Monitoring

Power Line Monitoring

Optical Ground Wire (OPGW)

Construction of OPGW

Gas Generator Monitoring

Fiber Optic Sensors for Security Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunication fiber to minimize costs

Border Security Monitoring

Highway Health Monitoring

Industry Standards

All Products Manufactured are in Strict Accordance with International Industry Standards:

- ISO 9001:2015 Certified (Canada, China and Türkiye)
- REACH Compliance
- RoHS Compliance
- CE Compliance
- Telecordia Compliance
- Controlled Goods Directorate Registered
- Critical supplier for F35 and F18 Project
- TSCA (Toxic Substance Control Act) Compliance
- CHEMSHERPA Compliance
- IEC 61010 Compliance

Marketing Strategy

Application Market

Using our strong direct sales and distributors, we address the following markets:

- ***Energy – Oil and Gas***
- ***Military and Homeland Security***
- ***Educational***
- ***Industrial***
- ***Telecom / Datacom***
- ***Medical & Pharmaceutical***

Marketing Strategy

Global Sales Network

OZ Optics has resellers and distributors in over 30 Countries and Regions with over 10,000 customers worldwide:


Austria


Belgium


Brazil


Canada


China


Denmark


France


Germany


Greece


Hong Kong


India


Ireland


Italy


Japan


Luxembourg


Netherlands


Norway


Poland


Portugal


Singapore


South Korea


Sweden


Switzerland


Taiwan


Thailand

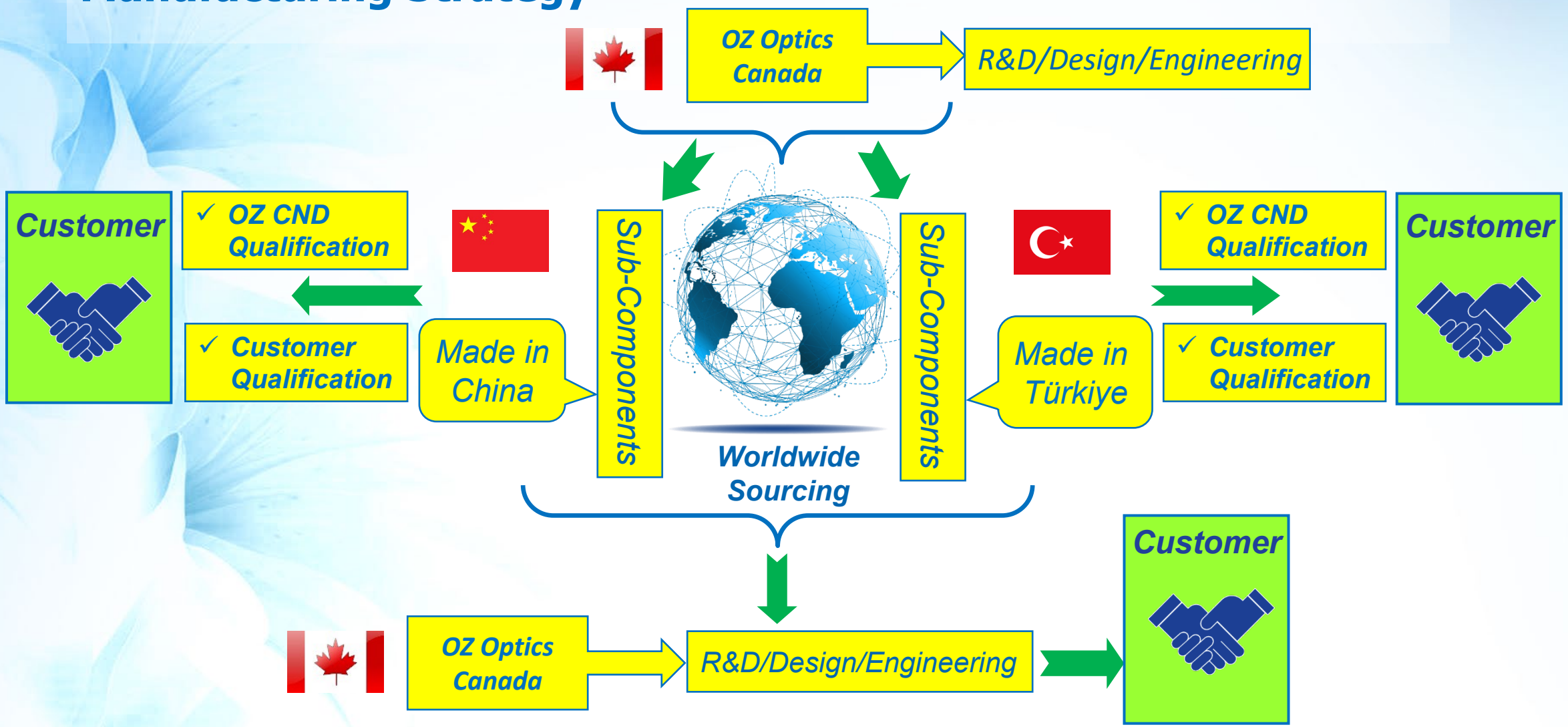

Türkiye


United Kingdom


United States

Operation Strategy

Manufacturing Strategy



Marketing & Operation Strategy

Competitive Advantage

- Superior Technology
  Innovative Engineering
- Competitive Pricing
- Global Presence
- Extensive Experience
  in Fiber Optics Manufacturing
- Exceptional Quality and Service

Branch Network

OZ OPTICS CANADA *(Headquarters)*

OZ OPTICS TÜRKIYE *(Türkiye Factory)*

OZ OPTICS CHINA *(Jiaxing Factory)*

Branch Network

Facility - Ottawa Headquarters

- 60,000 sq ft. - Manufacturing and R&D Facilities
- 15,000 sq ft. - Admin, Sales and Marketing
- 15,000 sq ft. - Training and Fitness Facilities

Branch Network

Facility - Ottawa Headquarters

Production Area

Training Centre Building

Meeting Room

Swimming Pool

Branch Network

Facility - Türkiye Factory (Izmir, Türkiye)

- Operational since 2000
- 33,000 sq ft. Manufacturing Facility
- Located in Free Trade Zone
- Low Tax Rates
- Sub Component Parts Manufacturing
- High Quality Labor
- AR Coating Machine & Clean Room onsite

Branch Network

Facility - China Factory (Jiaxing, China)

- Operational since June 2010
- Wholly Foreign Owned Enterprise
- Cost Effective Manufacturing
- High Quality Labor
- Supply Chain Integration

Branch Network

Facility - China Factory (Jiaxing, China)

- Located in Economic Development Zone
- 4000+ sq meters - Total Area
  - 500 sq meters – Admin, Sales and Marketing
  - 3500 sq meters – Manufacturing Area
    - √ 500 sq meter – Class 10,000 Clean Room
    - √ 500 sq meter – ESD Working Area

OZ Optics China

Zhejiang OZ Optics Technologies Co., Ltd

- Operational since June 2010
- Wholly Foreign Owned Enterprise
- NPI & Production Line Setup
- On-site Training by OZ CND
- Began Mass Production in September 2010
- Completed Main Facility Expansion in 2019

High Power Handling Fiber

- Power handling of optical fiber is wavelength dependent and dependent upon the structure of the optical fiber
- The shorter the wavelength, the higher the photon energy, and the lower the damage threshold
- The higher the absorption of the fiber, the lower the damage threshold.
- The smaller the core size is, the lower the power handling as damage threshold is in terms of W/mm2

Other Damage Factors

- Pulsed or CW Light?
- Focused Spot Size
- Fiber Doping
  - Low OH vs High OH
  - Germanium Doped vs Fluorine Doped

Damage Threshold of Fused Silica

Estimated Optical Power Densities on Air / Glass Interface		
Type	**Theoretical Damage Threshold**	**Practical Safe Level**
CW (Average Power)	~1 MW/cm^2	~250 kW/cm^2
10 ns Pulsed (Peak Power)	~5 GW/cm^2	~1 GW/cm

Data given is for wavelengths of 633nm and longer.
For shorter wavelengths the power numbers have to be lower.

Typical Damage Thresholds for SM Fibers, Standard Termination

Wavelength	Singlemode Core Size	Damage Threshold
1550nm	9/125	1 Watt
1060nm	6/125	0.5 Watts
830nm	5/125	0.25 Watts
633nm	4/125	0.2 Watts
520nm	3.5/125	0.1 Watts
405nm	3/125	< 50 mW

How To Make Fiber with Higher Power Handling

- **Large Mode Area (LMA) Fibers**
- **Enlarge the Core Diameter, Reduce the NA**
  - Examples: Nufern SM-GDF-10/125, BC46585 and PM1060L, BC#37895.
  - Limited by bend sensitivity.

LMA Fibers

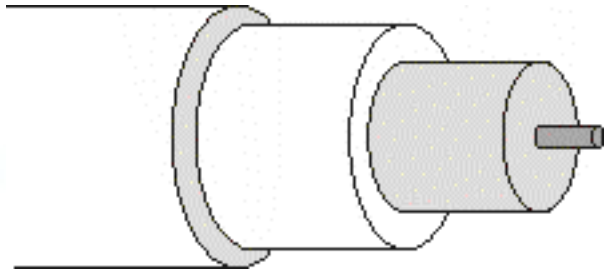
- If you make the fiber cores even bigger, you cannot keep reducing the NA.
- Eventually the fibers are no longer truly singlemode. They become low-order multimode (few mode) fibers.
- You need to know the Mode Field Diameter (MFD) of the fundamental mode of the LMA fiber.
- Examples:

Table 1B: Large Mode Area Fibers

Bar Code	Part Number	Operating Wavelength (nm)	Core Diameter (µm)	Cladding Diameter (µm)	Attenuation (dB/km)	Numerical Aperture	Buffer Diameter (mm)	Buffer Material
36269	SMF-1060-20/125-0.25-L-LMA	1064	20	125	<10	0.10	0.25	Acrylate
35688	SMF-1060-25/125-0.25-L-LMA	1064	25	125	<10	0.10	0.25	Acrylate
35689	SMF-1060-25/250-0.4-L-LMA-DC	1064	25	250	<10	0.06	0.40	Acrylate

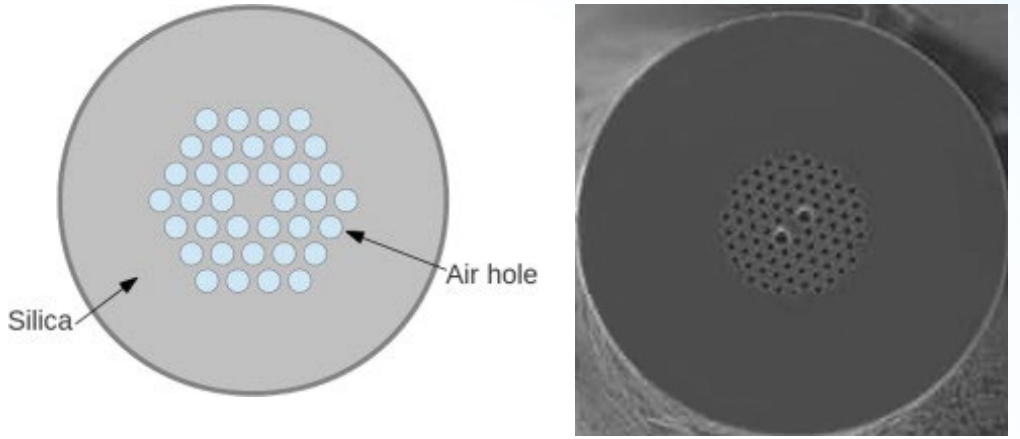
Double Clad Fibers

- Parts have an inner core, outer core = inner cladding, and outer cladding.
- Inner core is singlemode, active doping.
- Inner cladding acts as multimode fiber, delivers energy to inner core. Usually pure fuse silica.
- Outer Cladding is usually polymer. Sometimes is the outer coating.



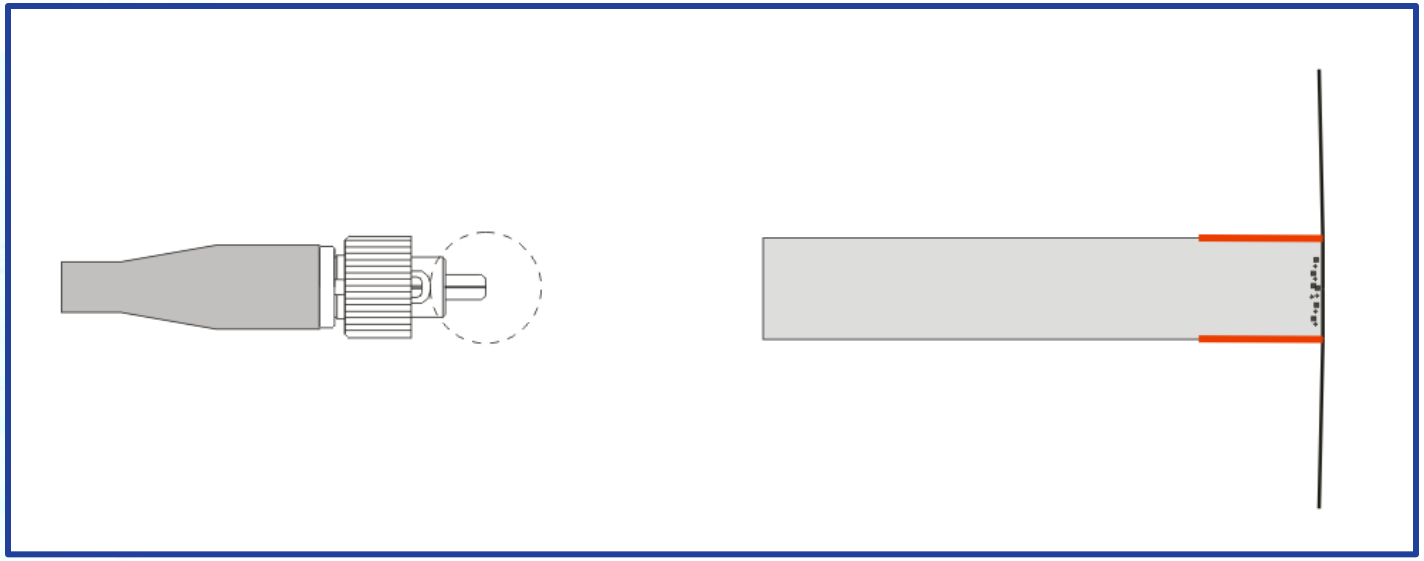
Photonic Crystal Fiber

- Sometimes Called “Holey Fiber”
- Singlemode and PM Fiber Versions
- Very Broad-Band Singlemode Behavior
- Mode Field Diameter Almost Constant Versus Wavelength.



Termination Failure Modes

- Epoxy Outgassing / Burning
- Contamination
- Embedded Polishing Particles



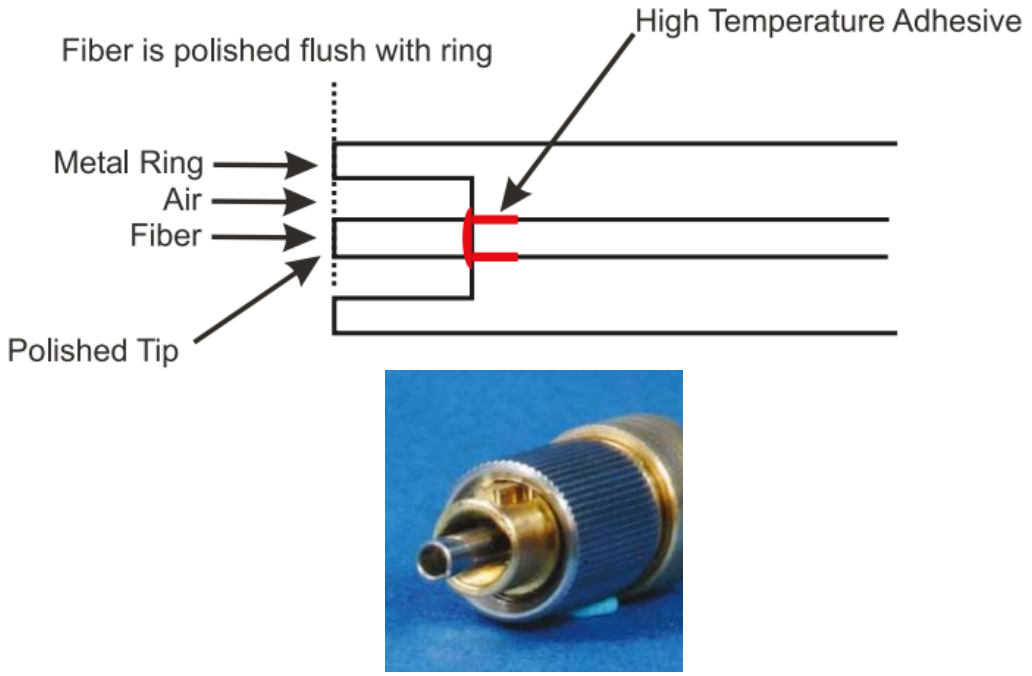
High Power Termination Options

- Regular Termination
- Air-gap Connectors – Polished Fibers
- Air Gap Connectors – Cleaved Fibers
- Air Gap Connectors – Laser Conditioned Fibers
- High Power Connectors with Heat Sinks
- Air Gap Connectors – Endcapped Fibers
- Regular Termination – Endcapped Fibers

Air Gap Connector - Polished

DTS0037: High Power / High Temperature Fiber Optic Patchcords

- Eliminates the glue from the fiber tip
- Best for fibers >200 um in diameter. (but can do 125 micron cladded fibers)
- Cleaning afterwards is essential.
- Embedded particles still an issue

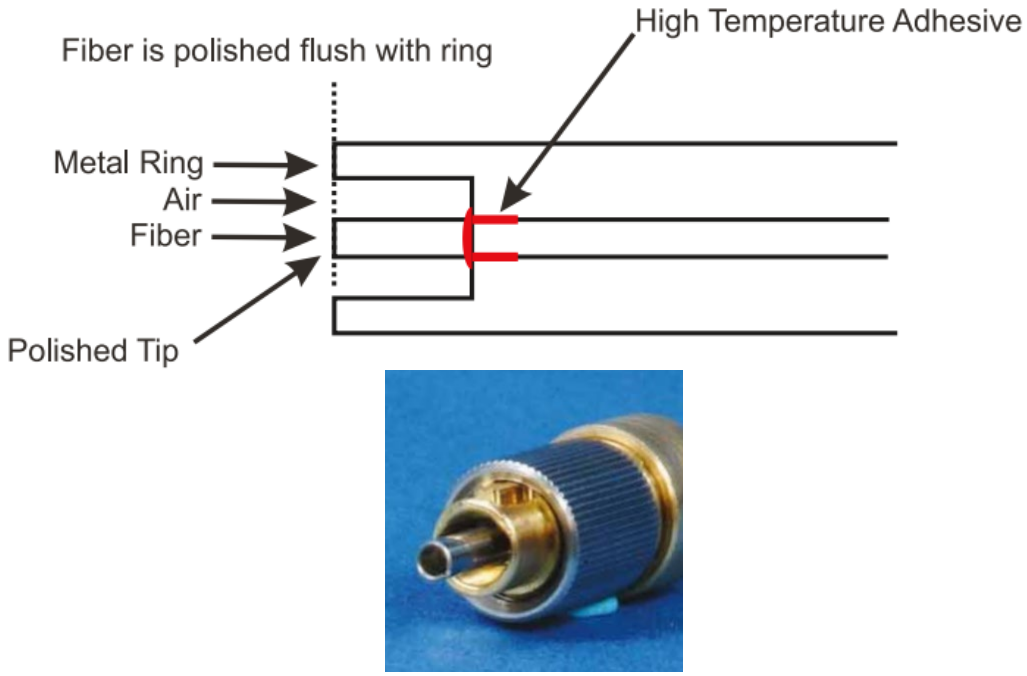


DTS0037 - High Power / High Temperature Fiber Optic Patchcords

Air Gap – Cleaved Fiber

DTS0037: High Power / High Temperature Fiber Optic Patchcords

- Eliminates the embedded particle problem.
- Need to watch out for small chips near the edge, especially for multimode fibers.

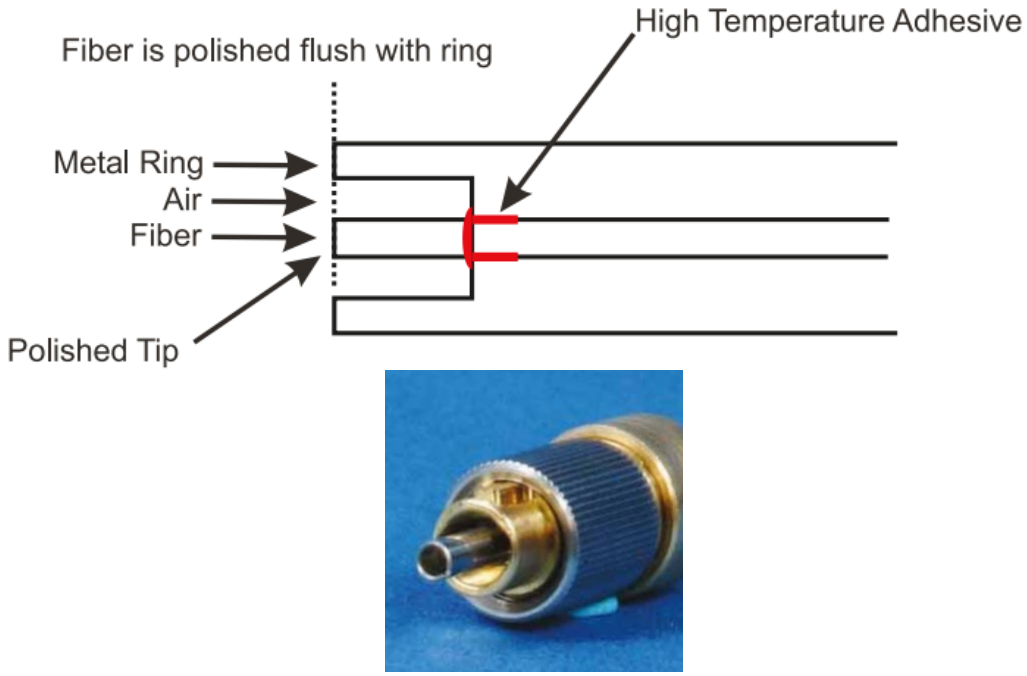


DTS0037 - High Power / High Temperature Fiber Optic Patchcords

Air Gap – Laser Conditioned

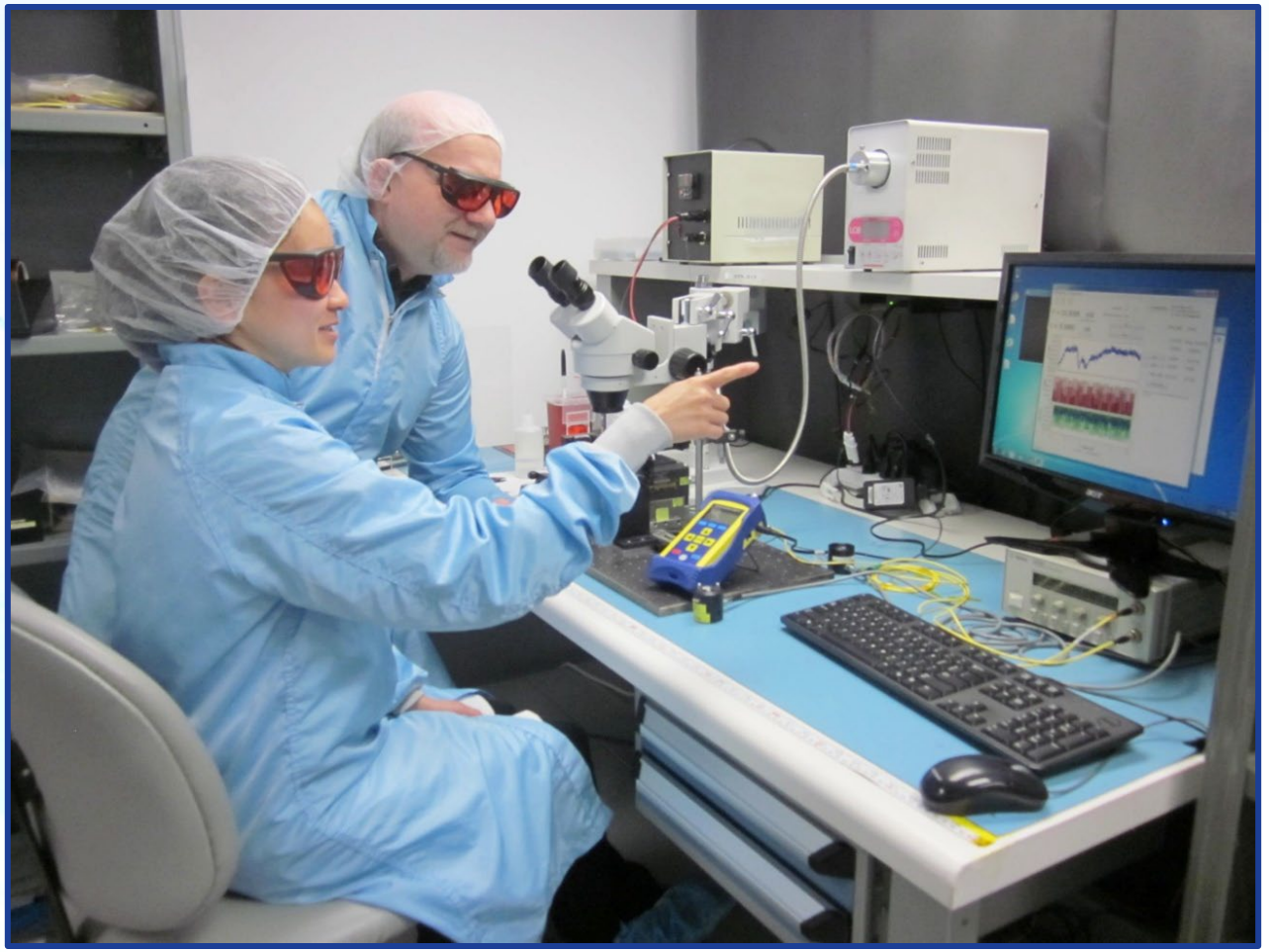
DTS0037: High Power / High Temperature Fiber Optic Patchcords

- Anneals the fiber tip, making it stronger.
- Can cause rounding of the fiber tip near the edges, May be a concern for some multimode fibers.
- Multimode Only



DTS0037 - High Power / High Temperature Fiber Optic Patchcords

Clean Room for High Power Manufacturing Components



Connectors with Heat Sinks

DTS0037: High Power / High Temperature Fiber Optic Patchcords

- Useful for applications exceeding 100 W.
- Any light not captured in the fiber core is diverted to the connector housing, absorbed, generating heat.
- Special epoxies enhance diverting light in the cladding (cladding mode stripping)
- Heat Sinks / Fins radiate this heat to the environment.


Very High Power Connector with Cooling Fins

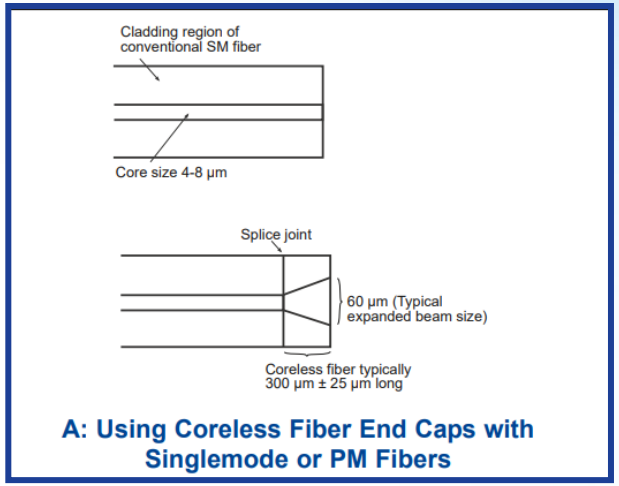

Very High Power Connector with Cladding Mode Stripping

DTS0037 - High Power / High Temperature Fiber Optic Patchcords

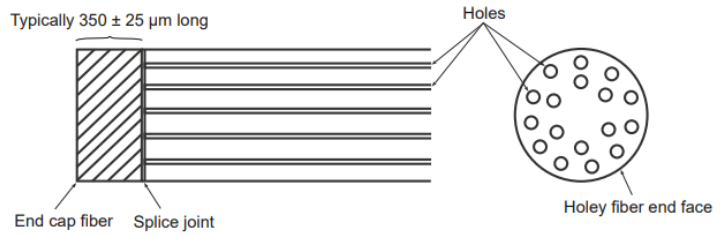
End-capping

DTS0037: High Power / High Temperature Fiber Optic Patchcords

- Most failures occur at the glass-air interface at the end of a fiber.
- Intensity is very high in singlemode and PM fibers because of small fiber core size, so intensity (W/m2)is large.
- Endcap acts as a protective region allowing he beam to expand before encountering the air.



A: Using Coreless Fiber End Caps with Singlemode or PM Fibers

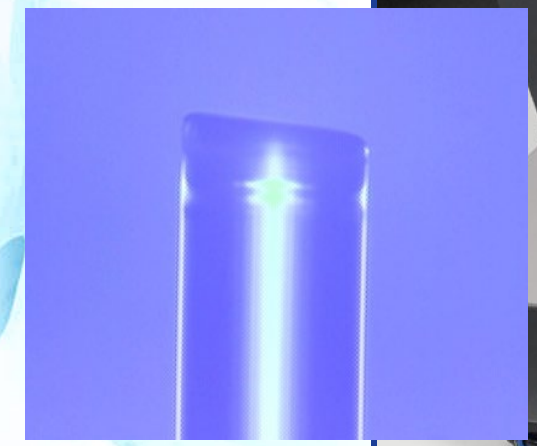


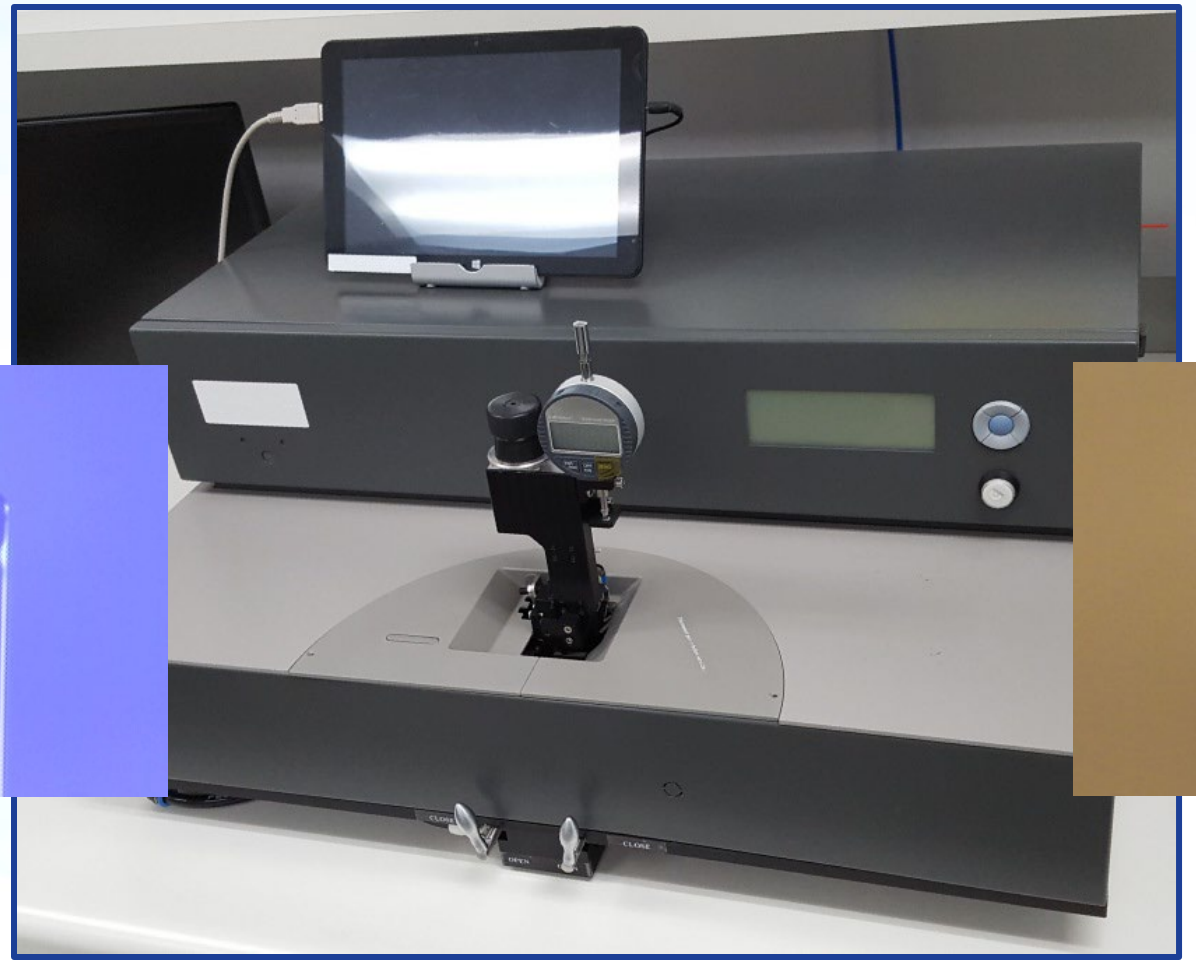
B: Using Coreless Fiber End Caps with "Holey" Fibers

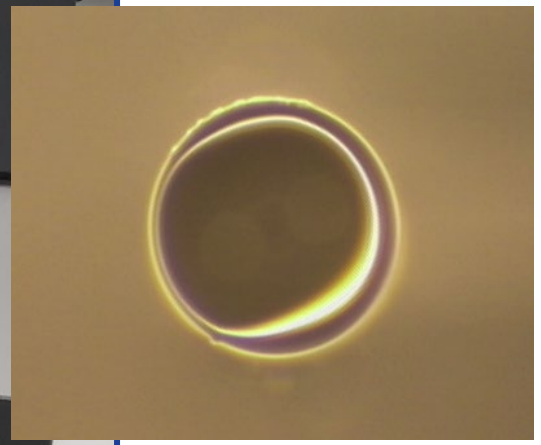
DTS0037 - High Power / High Temperature Fiber Optic Patchcords

Fusion Splicer for End Capping

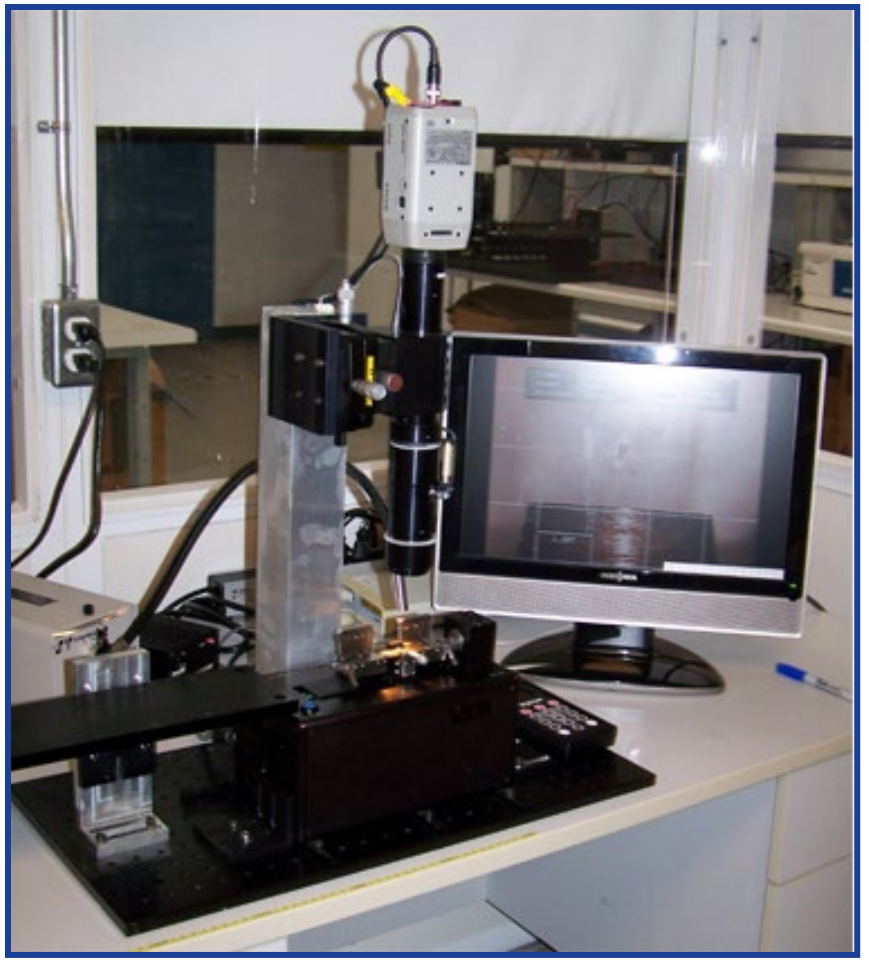
Laser Cleaving System



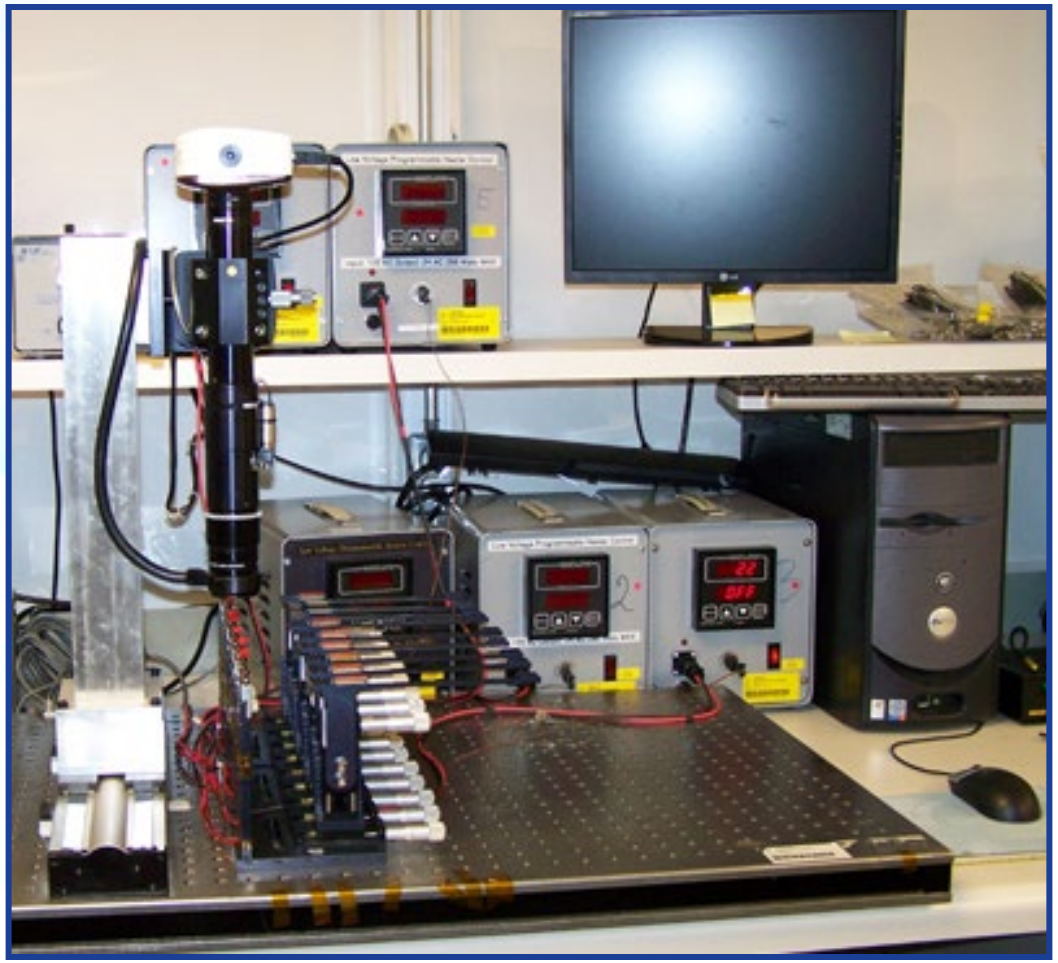




High Power Inspection Station

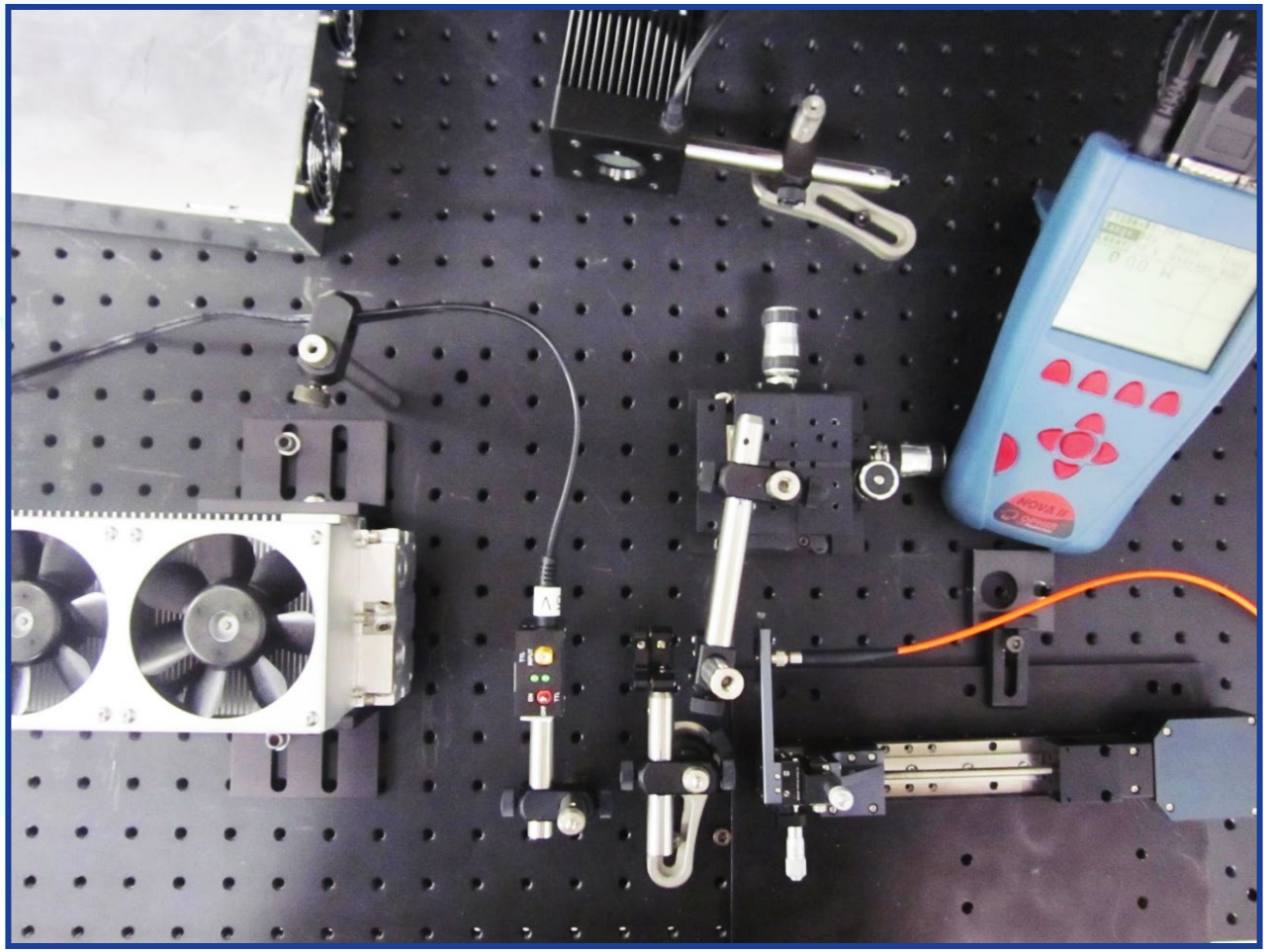


High Power Gluing Station for Patchcords



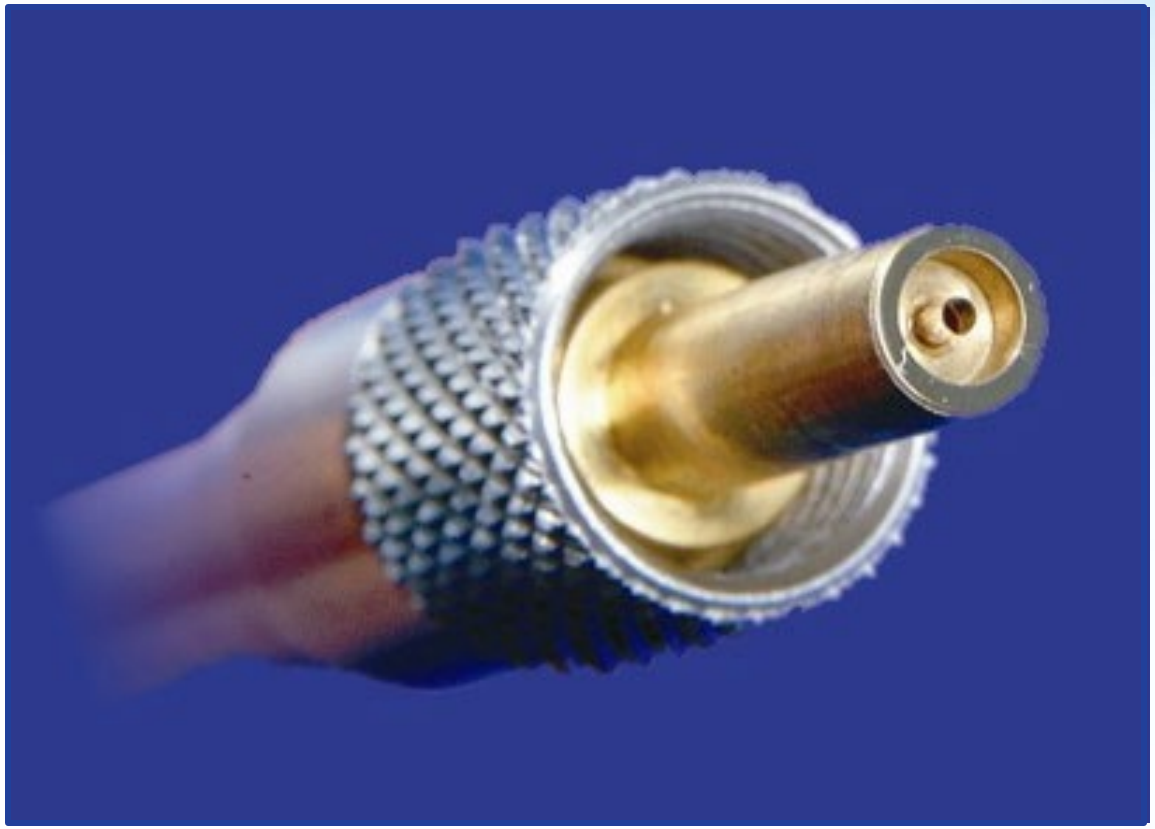
High Power AR Coating Machine

Laser Conditioning Station



High Power Patchcords & Connectors

- Able to Transmit Over 100 W of Optical Power
- Operating Wavelengths from 200 nm to 2000 nm
- PMF, SMF, and MMF High Power AR Coatings



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OZPEN™ CO_2 Fiber Optic Cleaning Unit

DTS0126: OZPEN™ CO_2 Fiber Optic Cleaning Unit for High Power Components

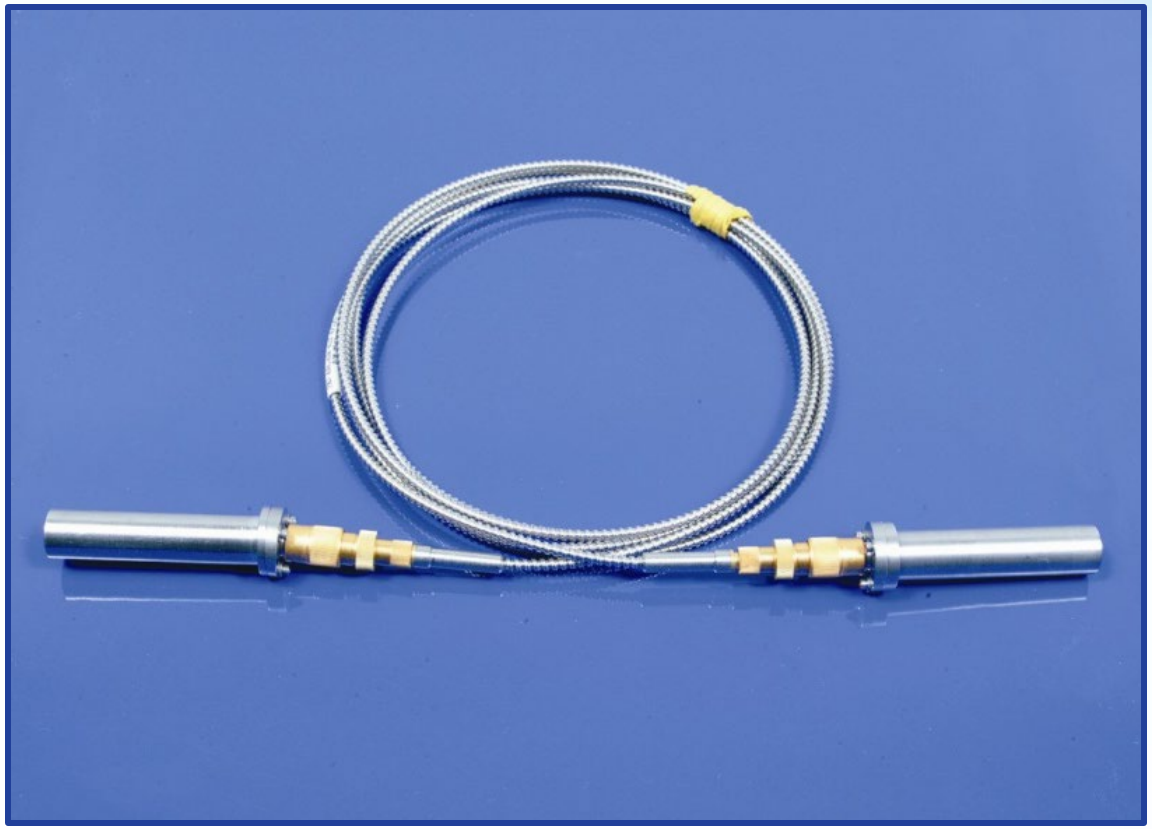
- Superior Removal of Contaminants on Fiber Optics and Other Components
- Quick and Dry Solvent Free Cleaning Process
- Cleans Variety of Substrates
- Designed to Clean Small Surface Area
- Ideal for High Power Applications

DTS0126 – OZPEN™ CO2 Fiber Optic Cleaning Unit for High Power Components

High Power Collimators / Focusers

DTS0145: High Power Collimators and Focusers – Pigtail Style

- Up to 100 Watts CW Power Handling
- Available for 180 nm to 2000 nm Wavelengths
- Receptacle and Pigtailed Versions



DTS0145 - High Power Collimators and Focusers – Pigtail Style

Fused High Power Fiber Collimators

DTS0157: Fused Fiber Collimator

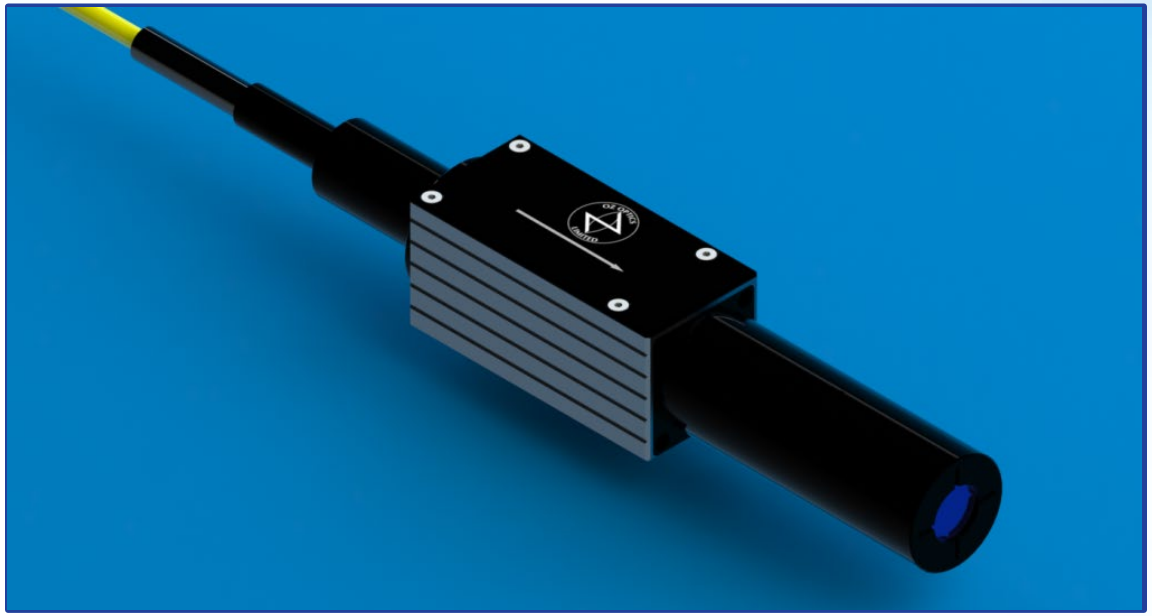
- No air-glass interfaces for maximum power handling
- Over 1 kW power handling
- Singlemode, multimode, polarization maintaining and large mode area fiber versions available

DTS0157 – Fused Fiber Collimator

High Power Fiber Pigtailed Isolators

DTS0123: High Power Free Space and Fiber Pigtailed Isolators

- Low Insertion Loss, Up to 100 Watts
- Available from 400 – 2000 nm
- Polarization Independent, High Isolation

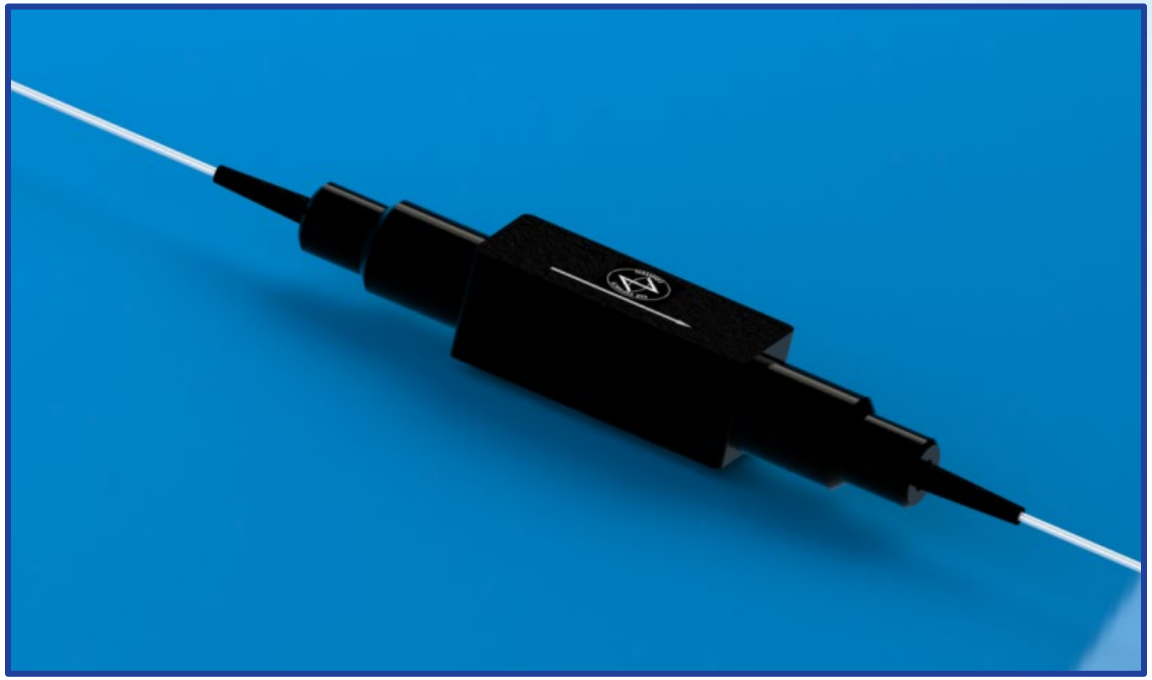


DTS0123 - High Power Free Space and Fiber Pigtailed Isolators

High Power Fiber Pigtailed Isolators

DTS0123: High Power Free Space and Fiber Pigtailed Isolators

- Multiple Watts CW Power Handling
- Shutter Speed of < 5 msec
- Temperature, Contact or Proximity Sensors for Safety Interlock
- SMA 905 or FC Receptacles



DTS0123 - High Power Free Space and Fiber Pigtailed Isolators

Mode Field Adapters

DTS0121: Mode Filed Adapters

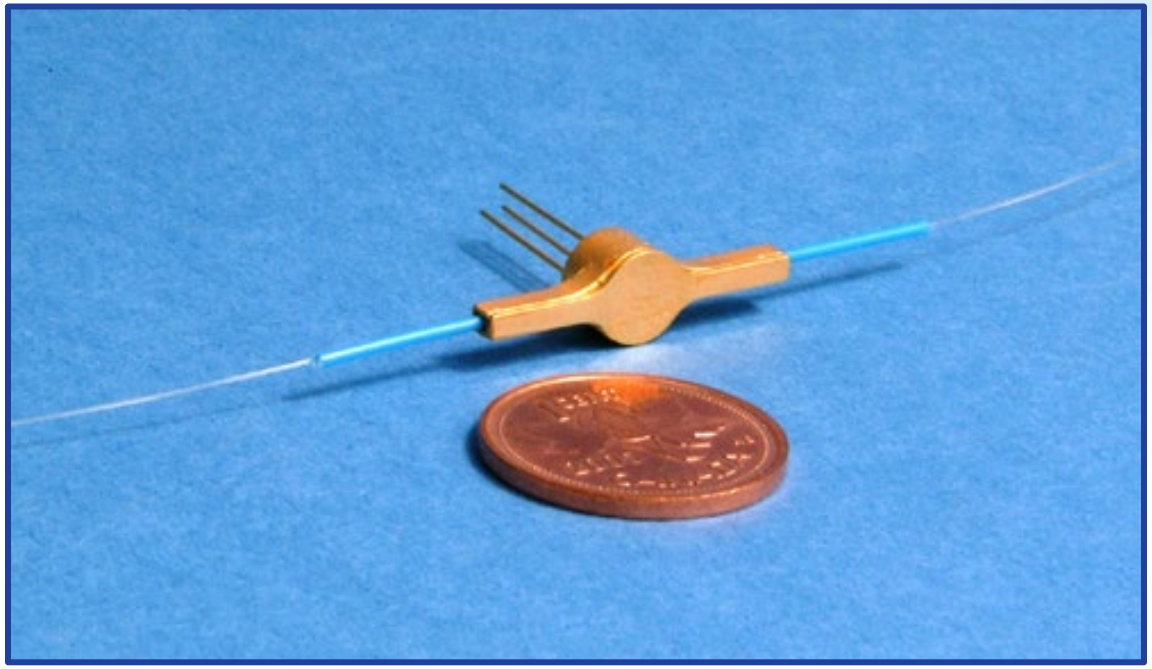
- High Power Handling
- Adapts and Conserves Modal Content
- Singlemode and Polarization Maintaining Versions
- Custom Designs Available

DTS0121 – Mode Field Adapters

High Power Directional Taps / Power Monitors

DTS0042: Directional Fiber Optic Power Monitors (Taps / Photodiodes)

- Up to 10 Watts Power Handling
- SM, PM and Specialty Fiber Versions, Including Photonic Crystal Fiber
- Available for 320nm to 2000nm Wavelengths

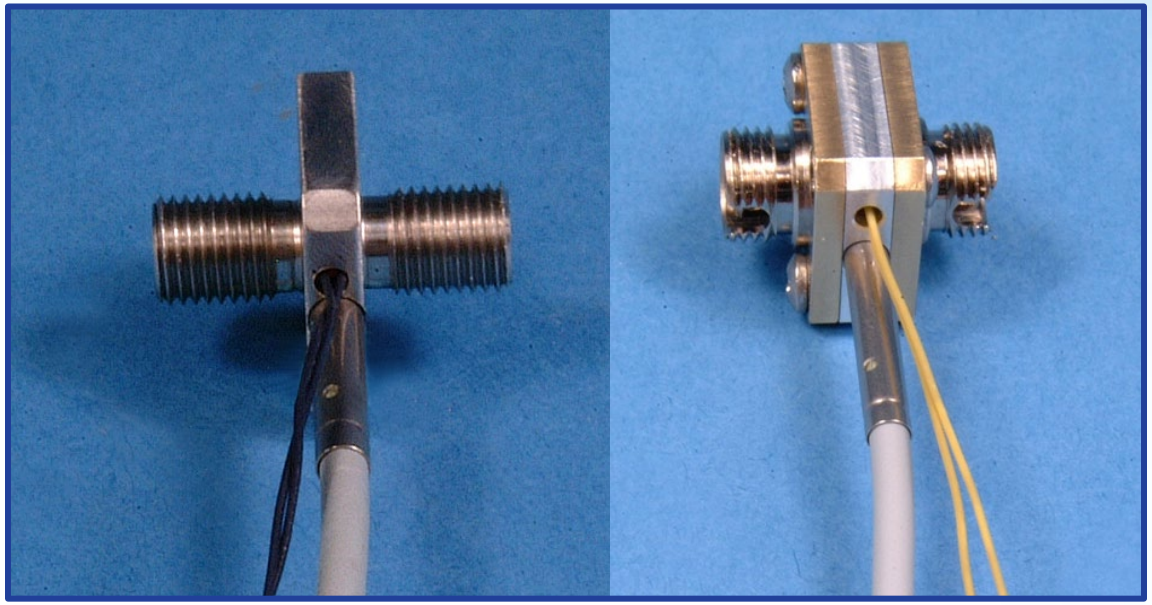


DTS0042 - Directional Fiber Optic Power Monitors (Taps / Photodiodes)

High Power Shutters / Bulkhead Receptacles with Safety Interlocks

DTS0120: High Power Shutters and Safety Interlocks

- Multiple Watts CW Power Handling
- Shutter Speed of < 5 msec
- Temperature, Contact or Proximity Sensors for Safety Interlock
- SMA 905 or FC Receptacles



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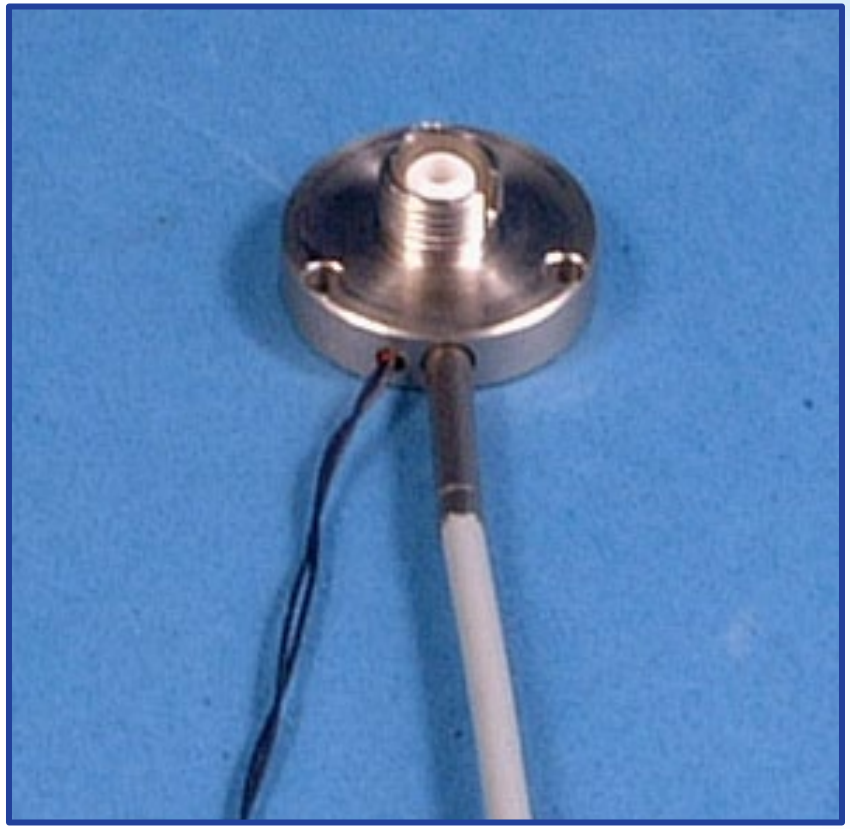

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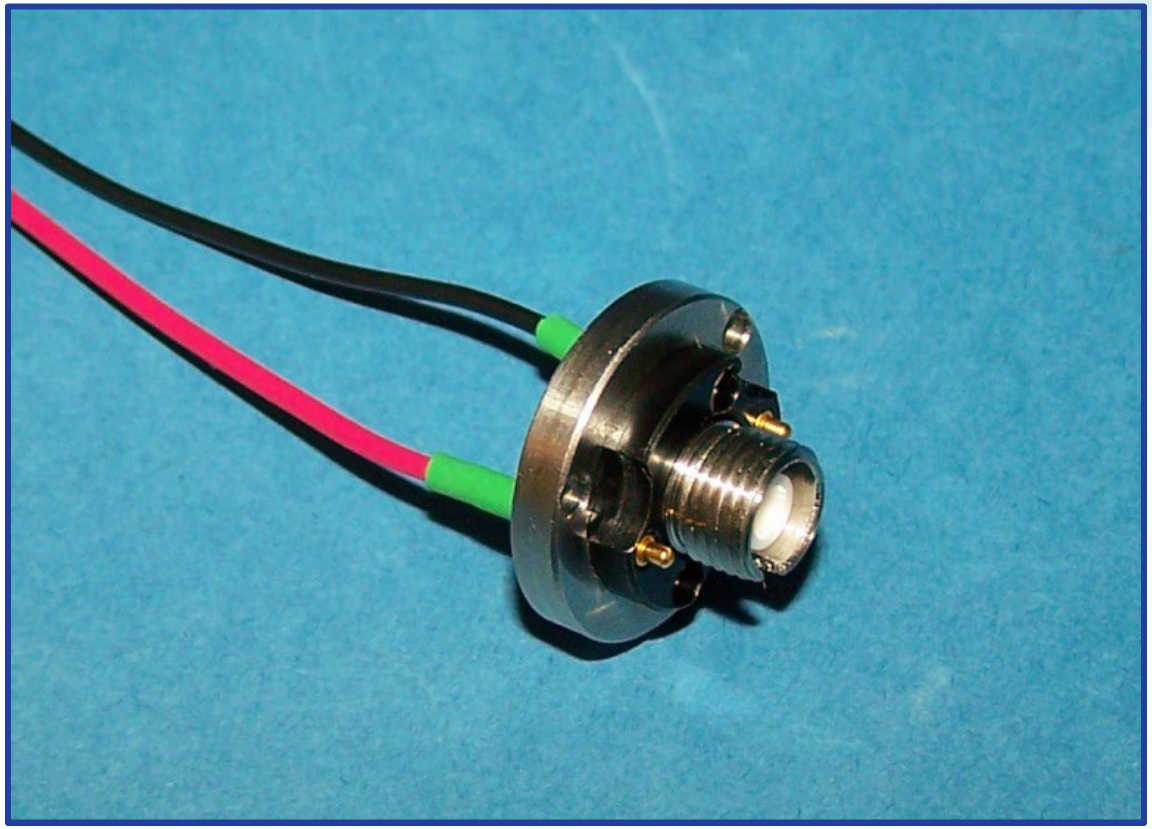

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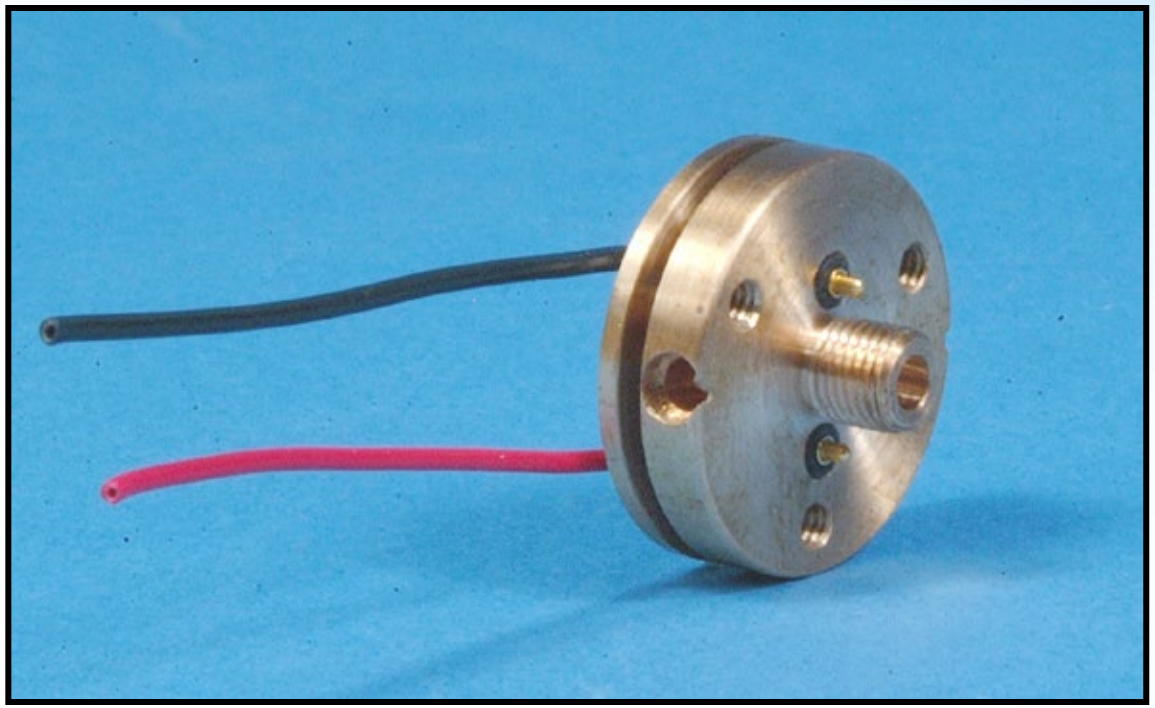

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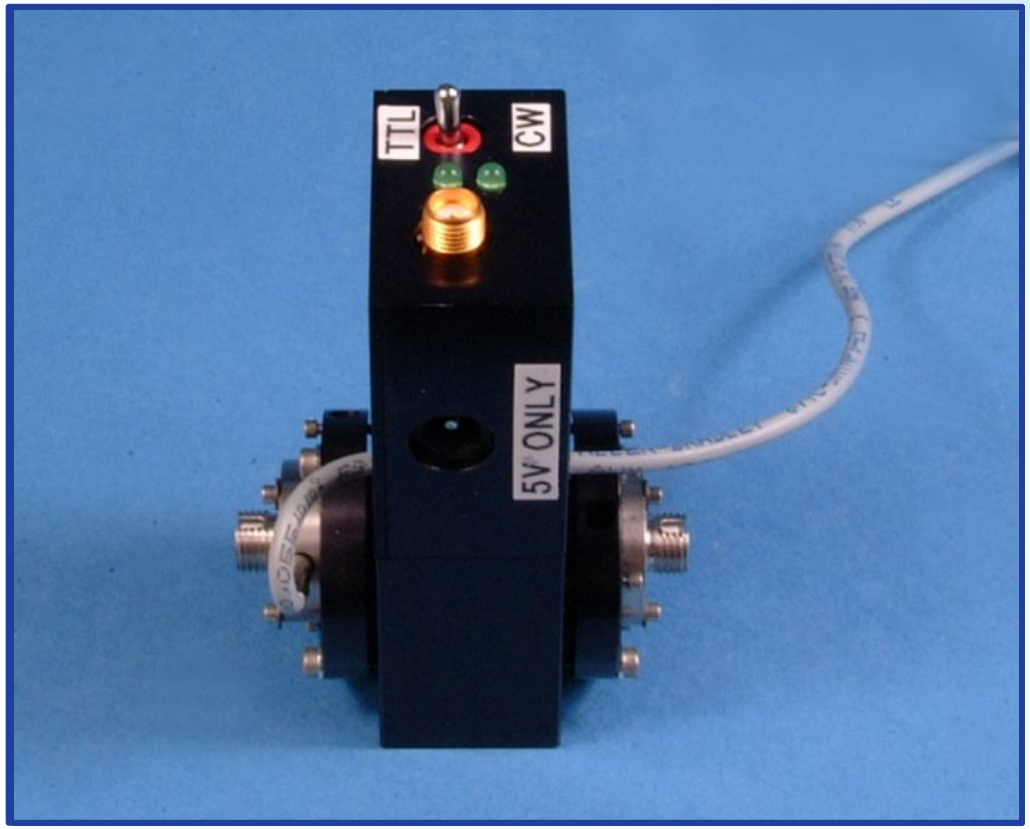

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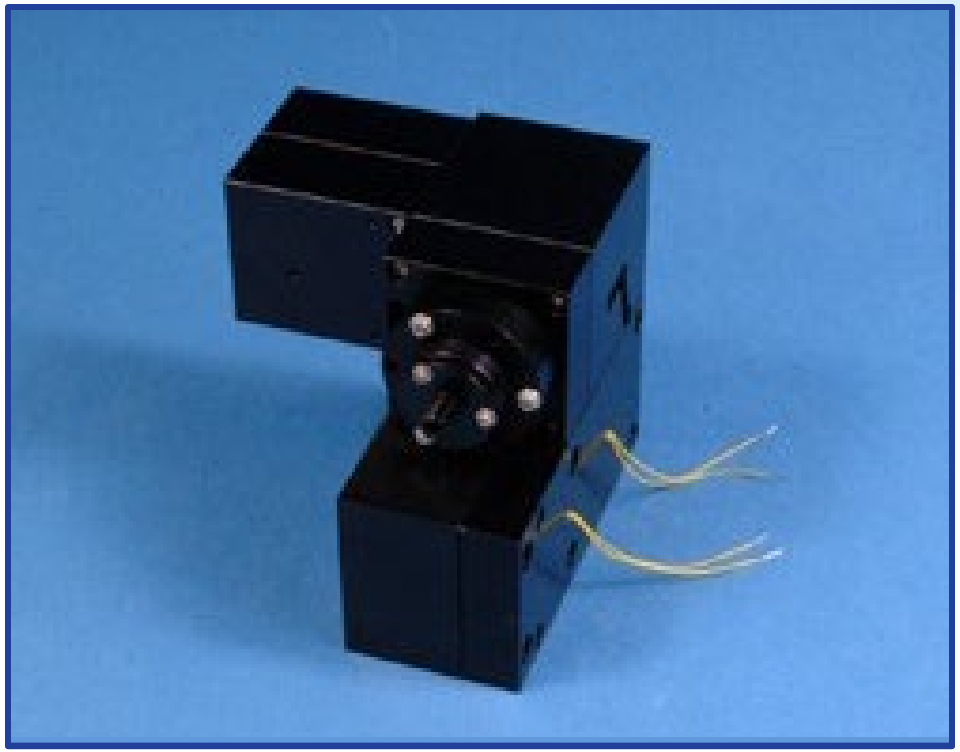
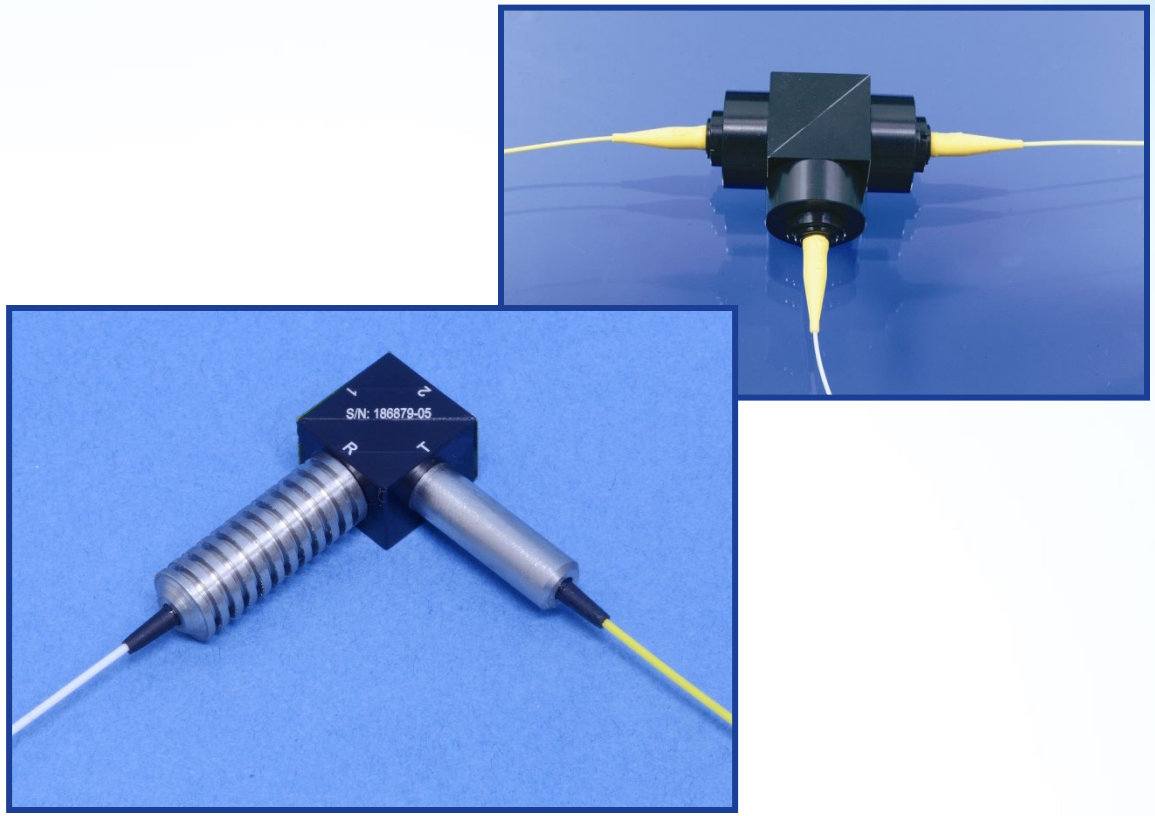


DTS0120 - High Power Shutters and Safety Interlocks

High Power Wavelength Division Multiplexer

DTS0089: Wavelength Division Multiplexers

- 0.8 dB Insertion Losses,
  65 dB Isolation
- Up To 200 Watt Power Handling
- -40 dB, -50 dB, -60 dB
  Backreflection

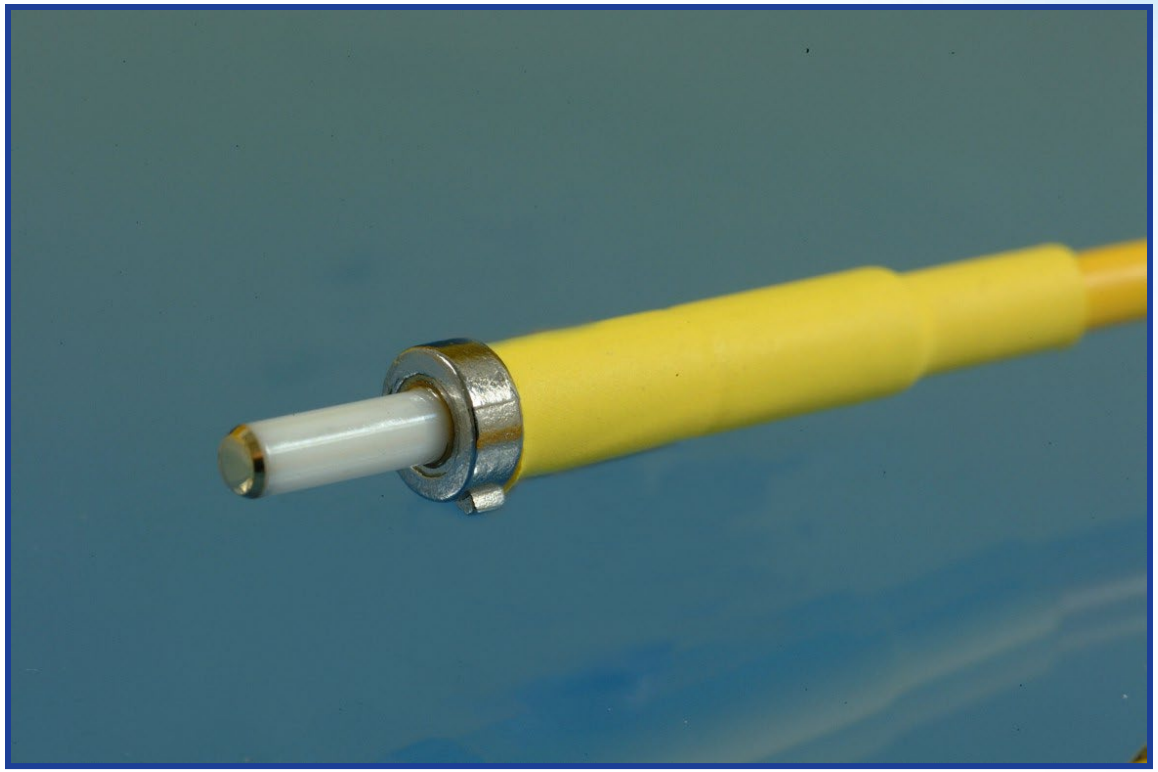


DTS0089 – Wavelength Division Multiplexers

High Power Antireflection (AR) And Highly Reflective (HR) Coated Fiber Ends

DTS0020: Reflectors - Fiber Optic (Fixed or Variable)

- HR, R>98%, AR < 0.3%
- 350 nm to 2000 nm Wavelength Coatings
- SMF, MMF & PMF Versions

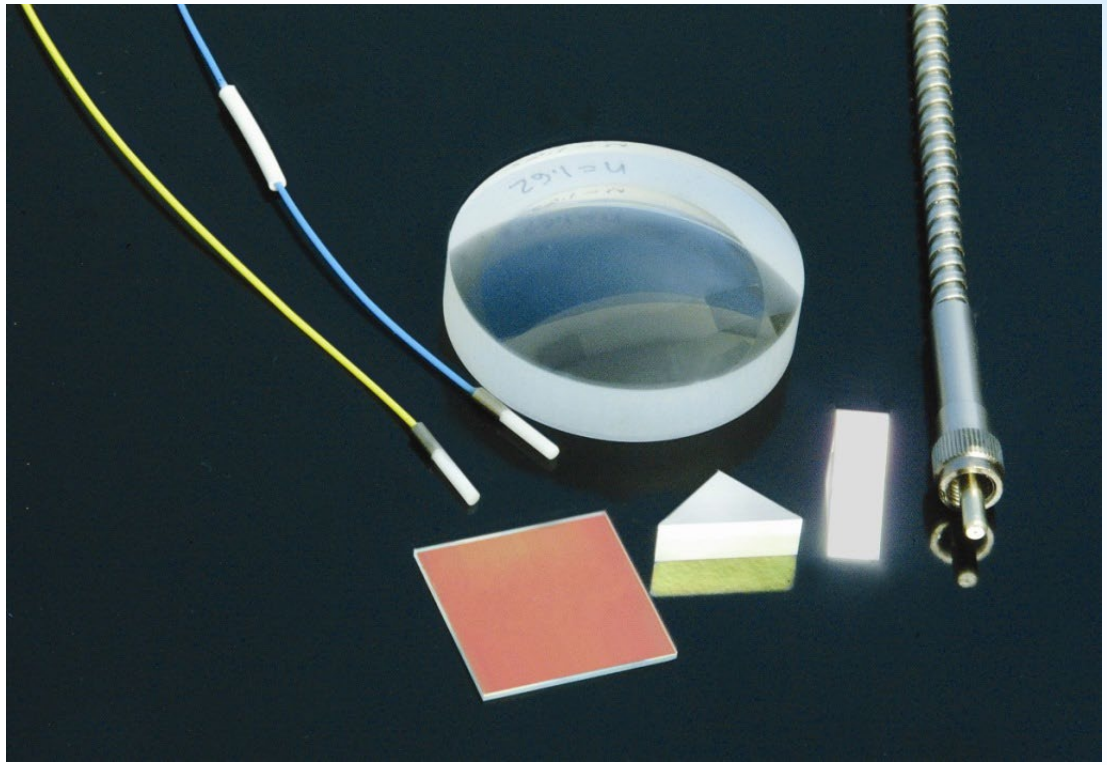


DTS0020 - Reflectors - Fiber Optic (Fixed or Variable)

High Power Optical Coatings

DTS0116: Optical Coatings

- High Power AR, Beamsplitter, Dichroic Coatings
- Fibers, Micro Optics, Lenses, Plates, Prisms Etc.
- Low Temperature High Abrasion Resistant Coatings



DTS0116 – Optical Coatings

Thank You for Choosing OZ Optics

Please Contact Our Sales Department:

Tel: 613-831-0981 ext. 3370

Toll Free: 1-800-361-5415

Email: sales@ozoptics.com

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