

# Fiber Optic Fault Locators and Accessories



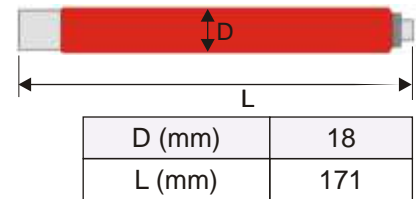
**FIBERPOINT® 250**

Part Number: 1401000002



Ferrule 2.5 mm

- Applications:**
- The compact design of the visual fault locator is very suitable for **daily use** in all fiber optic applications e.g. **in the field, in industrial environment as well as in laboratories.**
  - Check **singlemode/multimode** optical fibers and other fiber optic components on faults.
  - **Patching** of fibers



Parameter	Min.	Typ.	Max.
Wavelength		635 nm	
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power	(Singlemode fiber 9/125 µm)	500 µW	700 µW
	(Multimode fiber 50/125 µm)	500 µW	800 µW
Optical output power			1 mW
Operation current		40 mA	
Retention force for ferrule		1-2 N	
Weight incl. batteries		60 g	
Operation time - one battery pack <sup>1</sup> (Pulsed mode)		40 hours	
Battery type		AAA	
Operation mode	<b>Pulsed mode:</b> Frequency 2-3 Hz		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

- Included in delivery:**
- Dust cap
  - One battery pack
  - Instruction manual
  - “Quadrosafe” economy plastic shipping box

**Accessories (not included):** - Adapters please see page 7/8 this brochure

- Feature:**
- Private labelling is available instead of stamping “Fiberpoint 250”
  - One - time charge applies

Notes: Do not use rechargeable batteries.

**Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)**  
**The above product specifications are subject to change without notice.**

<sup>1)</sup> Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA; LR03 Micro; AM4; MN2400

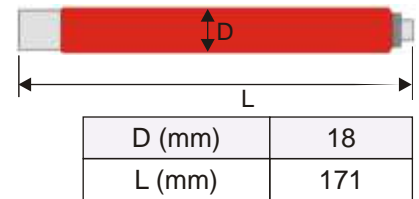
**FIBERPOINT® 250D**

Part Number: 1401000013



Ferrule 2.5 mm

- Applications:**
- The compact design of the visual fault locator is very suitable for **daily use** in all fiber optic applications e.g. **in the field, in industrial environment as well as in laboratories.**
  - Check **singlemode/multimode** optical fibers and other fiber optic components on faults.
  - **Patching** of fibers



Parameter	Min.	Typ.	Max.
Wavelength		635 nm	
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power	(Singlemode fiber 9/125 µm)	500 µW	700 µW
	(Multimode fiber 50/125 µm)	500 µW	800 µW
Optical output power			1 mW
Operation current		40 mA	
Retention force for ferrule		1-2 N	
Weight incl. batteries		60 g	
Operation time - one battery pack <sup>1</sup> (Pulsed mode)		40 hours	
Battery type		AAA	
Operation mode	<b>Continuous Wave</b>		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

- Included in delivery:**
- Dust cap
  - One battery pack
  - Instruction manual
  - "Quadrosafe" economy plastic shipping box

**Accessories (not included):** - Adapters please see page 7/8 this brochure

- Feature:**
- Private labelling is available instead of stamping "Fiberpoint 250"
  - One - time charge applies

Notes: Do not use rechargeable batteries.

**Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)**  
**The above product specifications are subject to change without notice.**

<sup>1)</sup> Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA; LR03 Micro; AM4; MN2400

**FIBERPOINT® 250MD**

Part Number: 1400000030



Ferrule 2.5 mm

- Applications:**
- The compact design of the visual fault locator is very suitable for **daily use** in all fiber optic applications e.g. **in the field, in industrial environment as well as in laboratories.**
  - Check **singlemode/multimode** optical fibers and other fiber optic components on faults.
  - **Patching** of fibers



D (mm)	12
L (mm)	167

Parameter	Min.	Typ.	Max.
Wavelength		635 nm	
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power	(Singlemode fiber 9/125 µm)	500 µW	700 µW
	(Multimode fiber 50/125 µm)	500 µW	800 µW
Optical output power			1 mW
Operation current		40 mA	
Retention force for ferrule		1-2 N	
Weight incl. batteries		60 g	
Operation time - one battery pack <sup>1</sup> (Pulsed mode)		40 hours	
Battery type		AAA	
Operation mode	<b>Continuous CW; Pulsed mode:</b> Freq.: 2-3 Hz		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

- Included in delivery:**
- Dust cap
  - One battery pack
  - Etui style plastic packaging/  
optional "Quadrosafe" economy plastic shipping box
  - Instruction manual

**Accessories (not included):** - Adapters please see page 7/8 this brochure

- Feature:**
- Private labelling is available
  - Minimum order quantity applies

Notes: Do not use rechargeable batteries.

**Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)**  
The above product specifications are subject to change without notice.

<sup>1)</sup> Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA; LR03 Micro; AM4; MN2400

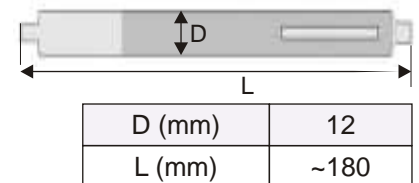
**FIBERPOINT® 250G**

Part Number: 1401000026



Ferrule 2.5 mm

- Applications:**
- The compact design of the visual fault locator is very suitable for **daily use** in all fiber optic applications e.g. **in the field, in industrial environment as well as in laboratories.**
  - Check **singlemode/multimode** optical fibers and other fiber optic components on faults.
  - **Patching** of fibers



Parameter	Min.	Typ.	Max.
Wavelength		532 nm	
Operation temperature	20 °C		30 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power	(Singlemode fiber 9/125 µm)	500 µW	700 µW
	(Multimode fiber 50/125 µm)	500 µW	800 µW
Optical output power			1 mW
Operation current		300 mA	
Retention force for ferrule		1-2 N	
Weight incl. batteries		60 g	
Battery type		AAA	
Operation mode	<b>Pulsed mode:</b> Frequency 2-3 Hz		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

- Included in delivery:**
- Dust cap
  - One battery pack
  - Instruction manual
  - “Quadrosafe” economy plastic shipping box

**Accessories (not included):** - Adapters please see page 7/8 this brochure

- Feature:**
- Private labelling is available
  - Minimum order quantity applies

Notes: Do not use rechargeable batteries.

**Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)**

**The above product specifications are subject to change without notice.**

<sup>1)</sup> Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA; LR03 Micro; AM4; MN2400

**FIBERPOINT® ET**

Part Number: 1400000079Q / 79E



Ferrule 2.5 mm

- Applications:**
- The compact design of the visual fault locator is very suitable for **daily use** in all fiber optic applications e.g. **in the field, in industrial environment as well as in laboratories.**
  - Check **singlemode/multimode** optical fibers and other fiber optic components on faults.
  - **Patching** of fibers



D (mm)	12.1
L (mm)	151

Parameter	Min.	Typ.	Max.
Wavelength	650 nm	655 nm	660 nm
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power	(Singlemode fiber 9/125 µm)	200 µW	350 µW
	(Multimode fiber 50/125 µm)	200 µW	600 µW
Optical output power			1 mW
Operation current		35 mA	
Retention force for ferrule		1-2 N	
Weight incl. batteries		70 g	
Operation time - one battery pack <sup>1</sup> (Pulsed mode)		40 hours	
Battery type		AAA	
Operation mode	<b>Continuous CW; Pulsed mode:</b> Freq.: 2-3 Hz		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

- Included in delivery:**
- Dust cap
  - One battery pack
  - Instruction manual

**Accessories (not included):** - Adapters please see page 7/8 this brochure

- Order Number:**
- 1400000079Q: Individually packed in Quadrosave
  - 1400000079E: Individually packed in durable FIBERPOINT® plastic box

- Feature:**
- Private labelling is available
  - Minimum order quantity applies
  - For resellers only

Notes: Do not use rechargeable batteries.

**Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)**  
 The above product specifications are subject to change without notice.

<sup>1)</sup> Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA; LR03 Micro; AM4; MN2400

**Adapter 2.50 mm to 1.25 mm**

Part Number: 1400000070

**Applications:** - Adapts patented **2.50 mm FIBERPOINT®** connection to a **1.25 mm** connection. Consequently you can check most of the popular fiber connector types with just one fiber fault locator.



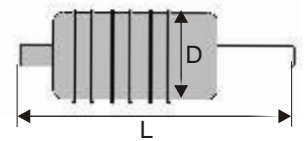
FIBERPOINT® 250 with Adapter



FIBERPOINT® 250MD with Adapter



Ferrule 1.25 mm



D (mm)	8.5
L (mm)	26

Parameter	Specification
Side of the FIBERPOINT®	2.50 mm SM-ferrule
Side of the fiber	1.25 mm connection for LC, MU, F3000 etc.
Attenuation	< 1.0 dB
Weight	10 g

**Included in delivery:** - Dust cap on both sides  
- Plastic foil bag packaging

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)  
Note: The above product specifications are subject to change without notice.

**Adapter for POF (polymer optical fiber)**

Part Number: 1400000078



**Applications:** - Adapts the patented **2.50 mm FIBERPOINT®** connection to a **1.5 and 2.2 mm outer diameter polymer optical fiber** connection. Consequently you can check both popular fiber connector types with one fiber fault locator.

Parameter	Specification
Side of the FIBERPOINT®	2.50 mm SM-ferrule
Side of the fiber	1.5 and 2.2 mm
Attenuation	typ. < 1.0 dB
Weight	8.5 g

**Included in delivery:** - Dust cap on both sides  
- Plastic foil bag packaging

**Adapter for SMA**

Part Number: 1400000088



**Applications:** - Adapts patented **2.50 mm FIBERPOINT®** connection to **SMA 905** connection. Consequently you can check both popular fiber connector types with just one fiber fault locator.

Parameter	Specification
Side of the FIBERPOINT®	2.50 mm SM-ferrule
Side of the fiber	SMA 905 connector
Attenuation	typ. < 1.0 dB
Weight	3.5 g

**Included in delivery:** - Dust cap on both sides  
- Plastic foil packaging

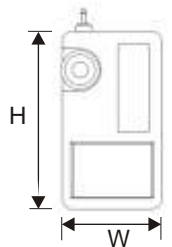
Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)  
Note: The above product specifications are subject to change without notice.

**ViewConn™**

Part Number: 7430000007

**Applications:** - The first field-use tool for **fiber optic connector end face inspection and cleaning.**

- Features:**
- Compact and light hand-held unit
  - Eye-safe viewing with LCD video display
  - Rechargeable AA battery operation
  - Hand-held probe compatible
  - Complete capture and documentation capability with USB interface
  - Automatic power saving feature
  - Detachable cleaning cassette
  - Wet or dry cleaning
  - Ruggedized cover for field use



W (mm)	95
H (mm)	170
D (mm)	30.4

Parameter	Specification
Field of View	0.4 mm x 0.3 mm
Optical resolution	1.5 μm
LCD display	3.5" LCD-TFT, Pixel 960 x 234, adjustable brightness and contrast
Fiber optic connector port	Interchangeable adapter tips for various types of connector ferrules
Electrical ports	DC adapter plug port USB 2.0 image capture port Lightel CI-1000 inspector probe access port
Power supply	4 AA batteries or 6V DC adapter Automatic power saving Low power indicator

- Included in delivery:**
- 4 AA battery set, battery charger, 1 AC to 6V DC power adapter
  - 1 CC-1 cleaner module attached to ViewConn device, 1 Spare CC-1 module
  - Ruggedized cover
  - Adapting tips for 2.5 mm and 1.25 mm PC- connectors
  - 1 USB 2.0 mini-B cable, 1 CD for USB video driver & display/capture software

- Accessories:**
- Cleaner module (CleanConn CC-1), 50 cleaning sheets per cassette
  - CI-1000 handset probe, CI-1000 adapting tip
  - Hard case or soft case
  - Cleaning - solvent dispenser pen
  - Powermeter and software please see page 10/11 this brochure

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)

Note: The above product specifications are subject to change without notice.

**VC6-OPM / VC6-OPM-H Power Meter**

Part Number: 1400000088

**Features:**

- Dynamic Range -60 dBm to 10dBm
- Resolution 0.01dB
- Wavelengths 850 nm,1300 nm,1310 nm,1490 nm, 1550 nm,1625 nm
- Store data and download later by USB
- View readings on large ViewConn display screen



Features	VC6-OPM	VC6-OPM-H
Tone Detection	270 Hz, 1000 Hz, 2000 Hz (for 850 nm, power within -25 dBm ~ 10 dBm, for all other wavelength, power within -35 dBm ~ 10 dBm)	270 Hz, 1000 Hz, 2000 Hz (for 850 nm, power within -15 dbm ~ 25 dBm, for all other wavelength, power within -20 dbm ~ 25 dBm)
Display Type	mW, dBm, dB(REF)	
Data Storage	999 items	
Data Interface	USB 2.0	
Software Support	Included	
Optical		
Wavelengths	800 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm	
Uncertainty	±5 %	
Resolution	0.01 dB (0.1 dB when < -55 dBm)	0.01 dB (0.1 dB when < -35 dBm)
Dynamic Range	-40 dBm to 25 dBm	
Interchangeable Type	FC/SC/ST/LC/E2K or Universal type	
Mechanical & Environmental		
Dimensions	125 mm x 37 mm x 30 mm	
Operating Temperature	-10 °C to 50 °C	
Storage Temperature	-20 °C to 70 °C	
Humidity (none condensing)	0 % to 95 %	
Weight	100 g	

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)

Note: The above product specifications are subject to change without notice.



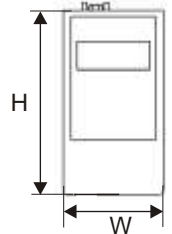
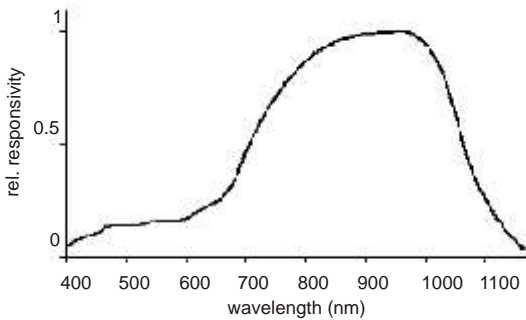
**Laser Power Meter**

Part Number: 1300000002 (IPM-100 HB)<sup>1</sup>  
 1300000003 (IPM-100 HN)<sup>2</sup>

- Applications:**
- For measuring the visual power of laser sources (e.g. Semiconductor laser, solid laser, gas laser) within a wave length of 400 to 1100 nm.
  - Parallel bundles of rays with a diameter of < 7 mm can clearly be measured.



**Spectral Responsivity:**



W (mm)	65
H (mm)	120
D (mm)	22

Parameter	Min.	Typ.	Max.
Wavelength range	400 nm		1100 nm
Operating temperature	5 °C		40 °C
Storage temperature	0 °C		50 °C
Power measuring range @ 633 nm	1 µW		100 mW
Power density measuring range	2.5 µW/cm <sup>2</sup>		250 mW/cm <sup>2</sup>
Dimension of detector		Ø 7 mm	
Indication of measuring value	LC-display (six-figure number), letter height 9 mm		
Operation	Foil keyboard, 3 function keys		
Current supply	9V block battery or supply by mains cable 230V/50Hz		
Interface	RS232 9 pin Sub-D		

- Included in delivery:**
- Battery pack
  - hard top suit-case
  - Instruction manual

- Accessories:**
- 100H-RS232 interface cable
  - Detector adapter



Detector adapter

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)  
 Note: The above product specifications are subject to change without notice.

<sup>1</sup> 9V block battery  
<sup>2</sup> supply by mains cable 230V/50Hz

**IBC™ Brand Cleaner LC, SC**

Part Number: 7430000062  
7430000063



- Applications:**
- Fiber network panels and assemblies
  - Outdoor FTTX applications
  - Cable assembly production
  - Testing laboratories
  - Servers, switches, routers and OADMS with SC, FC, ST and LC interfaces

- Features:**
- Easy pushing motion engages connector and initiates cleaning
  - Disposable with 525+ cleanings per unit
  - Made from antistatic resins
  - Cleaning micro fibers are densely stranded and debris free
  - Cleaning system rotates 180° for a full sweep
  - Extendable tip reaches recessed connectors
  - Audible click when engaged
  - Proven effective at removing (Test reports available):
    - Arizona Road Dust
    - Dryer Lint
    - Graphite - Post Mate
    - Distilled H2O Residue
    - NaCl Residue
    - Skin Oil
    - Graphite - Pre Mate
    - 70% IPA Residue
    - Hand Lotion
    - Vegetable Oil

Number	9392	9393
Part Number	7430000063	7430000062
Description	IBC™ Brand Cleaner SC for 2,5 mm connectors - SC,FC and ST for UPC and APC polishes	IBC™ Brand Cleaner LC for 1,25 mm connectors - LC, LC secure key and MU for UPC and APC polishes
Environmental Properties	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating Temperature Range -10°C to 60°C	

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)  
 Note: The above product specifications are subject to change without notice.

**IBC™ Brand Cleaner MPO, etc.**

Part Number: 7430000065  
 7430000081  
 7430000082



- Applications:**
- US Conec MTP® Brand MPO style connectors
  - MPO style cassette modules and cable assemblies
  - Parallel aptocs transceivers
  - Outdoor hardend MT ferrule based connectors
  - HBMT™ connectors
  - Molex ARRAY™ connectors (6 & 8 port)

- Features:**
- Cleans both male and female MT ferrule based connectors
  - 600+ cleanings per unit
  - Cleaning cloth made from high density woven micro fibers
  - Cleaning cloth is washed and debris free
  - Adapter tip is supplied with 7104 for cleaning unmated MPO style connectors

Cleaners		
Number	Part Number	Description
7104	7430000065	IBC™ Brand Cleaner for MPO style connectors (Verizon PID #11039451)
8247	7430000081	IBC™ Brand Cleaner for OptiTip™ compatible connectors
8037	7430000082	IBC™ Brand Cleaner for HBMT™, ARRAY & MPO style connectors

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)  
 Note: The above product specifications are subject to change without notice.

## Optipop - Reel Cleaner, Pipe Cleaner, Stick Cleaners

- Applications:**
- FTTX work sites installing OptiTap™ drop cables
  - Data center installation and preventative maintenance
  - Central office and head end new equipment installations and preventive maintenance
  - Production facilities that terminate fiber optic cable Assemblies
  - Testing and measuring laboratories using optoelectronic



- Features:**
- Eliminates electrostatic charge
  - The washed, ultra clean micro-fiber cloth captures debris and other contamination
  - The cloth is robust, it does not fray or leave any fibrous materials behind
  - The most cost effective high-end cleaning solution available
  - Recommended by the leading optical networking companies

Cassette Cleaners		
Number	Part Number	Description (400+ Cleanings)
6227	7430000064	Reel Cleaner, suitable for all connector types except male MT connectors
6226	7430000071	Reel Cleaner, suitable for male MT's (with guide pins), such as male MPOs
8057	7430000073	Reel Cleaner, suitable for single fiber hardened connectors, such as OptiTap®
6230	7430000066	2-slot Reel Cleaner, suitable for all connector types except male MT connectors
6228	7430000072	Reel Cleaner, suitable for male MT-RJ ferrules
6232	7430000067	Reel Cleaner, Refills (pack of six)

Stick & Pipe Cleaners		
Number	Part Number	Description (400+ Cleanings)
7892	7430000078	1,25mm stick cleaner for bulkhead & transceiver apps; LC and MU connectors (Qty=250)
7893	7430000079	2,50mm stick cleaner for bulkhead & transceiver apps; SC, ST, FC(150mm long-Qty=250)
6363	7430000074	1,25mm "pipe" cleaners for cleaning outside of ferrule and inside connector (Qty=600)
6364	7430000075	2,50mm "pipe" cleaners for cleaning outside of ferrule and inside connector (Qty=200)

Card Cleaners		
Number	Part Number	Description (400+ Cleanings)
6367	7430000076	Small form factor cleaner for field use, (120 cleanings)
6368	7430000077	Refills for Part #6367, (10 sheets)
8752	7430000080	Single sheet, disposable card cleaner, (12 cleanings)

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)  
 Note: The above product specifications are subject to change without notice.

**IMM Photonics GmbH** hat sich kontinuierlich zum Hersteller, Distributor und Dienstleister entwickelt. Heute sind wir mit über 40 Mitarbeitern einer der führenden Anbieter im Bereich Lasertechnik, Optoelektronik und Faseroptik mit eigener Entwicklung und Produktion.

Unser Produktangebot reicht von der einzelnen Komponente (Laserdiode, Optik, Optoelektronik) über Subsysteme (Kollimatoren und Module) bis hin zu kompletten Geräten wie z.B. den FIBERPOINT®. Bei der Entwicklung kundenspezifischer Lösungen greifen wir auf die Erfahrung von 12 Ingenieurinnen und Ingenieuren zurück. Dies bildet die Basis für unser hohes technisches Know-how und die hervorragende Qualität unserer Produkte.

## Unsere Firmenphilosophie

Unser Ziel ist - gemeinsam mit Ihnen - maßgeschneiderte Lösungen für Sie zu erarbeiten.

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**IMM Photonics GmbH** has been continuously developed to supplier, distributor and service company. With more than 40 employees we are one of the leading supplier in laser technique, optoelectronics and fiber optics with own development and production department.

Our product range includes single components (laser diodes, optics, optoelectronics), sub-systems (collimators and modules) and complete devices, such as FIBERPOINT®. Customized solutions are designed by an experienced team of 12 engineers. Highest quality products are designed on the background of a highly skilled team.

## Company Philosophy

Our aim is to find specific solutions together with you – for you.

Release: 01-2009

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