

FOCIS Flex
U.S. Patent 9217688B2

## **Fiber Optic Connector Inspection System**



#### **Features**

- Auto-focus and auto-centering for fast, easy inspection
- Untethered operation simplifies access at patch panels
- IEC, IPC and user-defined pass/fail analysis
- Self-contained, compact, hand-held inspection solution
- Use independently, or pair with FlexScan or FlexTester OTDR
- Save results internally and upload via Bluetooth or USB
- Ergonomic design fits in the palm of your hand
- Generate inspection reports using included TRM® 2.0

#### **Applications**

- Inspect connectors on patch cords or in bulkhead adapters
- Optical network installation, troubleshooting and maintenance
- Inspect MPO/MTP multi-fiber connectors
- Assure critical fiber infrastructure performs properly
- Keep fiber connections working at optimal performance levels
- Verify proper connector cleaning practices are being used

**Pass/fail results in seconds:** With the press of a single button, FOCIS Flex auto-focuses, captures and centers the end-face image, applies pass/fail rules, displays image and pass/fail results, and wirelessly transfers image and results to a paired FlexScan or FlexTester OTDR. All in a matter of seconds!

**Independent, untethered operation:** With rechargeable battery supply and integrated display, FOCIS Flex can be used independently – without requiring an external OTDR or display unit.

**Pair with FlexScan or FlexTester OTDR:** Still prefer to view and save images and pass/fail results on your FlexTester OTDR? No problem! Captured images and pass/fail results are immediately displayed and easily saved on the paired device along with associated OTDR and/or insertion loss test results.

**Save results internally or externally:** FOCIS Flex internally stores thousands of results using file-naming capabilities similar to FlexScan and FlexTester OTDRs. A micro-USB port supports fast upload of internally stored results to PC, and ensures your FOCIS Flex software can be updated to the latest features and supported languages.

**Wide range of adapter tips:** Interchangeable adapter tips support connector inspection for a wide range of both single-fiber and multi-fiber patchcords and bulkhead-mounted connectors having either PC or APC polished end-faces.

FOCIS Flex is available in standalone kit configurations including soft carry case / holster and user-selected adapter tips. Available FlexScan and FlexTester PRO and Complete Kits bundle FOCIS Flex with the selected OTDR, fiber ring and cleaning supplies.









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## Specifications a

OPTICAL PERFORMANCE			
Field of View (viewed on FOCIS Flex)	Live: 500 x 600 µm; Captured, Zoomed Out: 400 x 410 µm; Captured Zoomed In: 260 x 280 µm		
Field of View (Viewed on a PC)	Zoomed Out: 400 x 430 μm; Zoomed In: 260 x 280 μm		
Manual Detection Capability	1 μm		
Analysis Resolution	1.5 μm		
Captured Image Size (Pixels)	640 x 480		
OPERATING FEATURES			
Focus	Auto-focus and manual focus		
Centering	Auto-centering after capture		
Pass/Fail Analysis	IEC 61300-3-356, IPC and user-defined criteria		
Image Capture and File Storage Capacity	10,000 files		
File Format (Image and Pass/Fail Results)	jpg, gif		
Bluetooth Characteristics	OBEX to FLX380 & OFL280 FlexTester OTDRs		
USB Characteristics	USB 1.1 mass storage device		
Supported Languages	English, French, German, Japanese, Spanish, Polish, Russian		
PHYSICAL AND POWER CHARACTERISTICS			
Display size, type, resolution	2.4", TFT, 240x320		
Battery Type	NiMH, user replaceable		
Battery Operating Time (typical)	8 hours (60 tests in 20 minutes each hour; auto-off enabled)		
Recharge Time	<4.5 hours		
Power Save Features	Auto-off (disabled, 1, 2, 5 minutes)		
AC Charger voltage, frequency, current	100-240 V, 50/60 Hz, 6VDC, 1A		
Size	47 x 37 x 175 mm (1.8 x 1.5 x 6.8 in)		
Weight	240 g (0.5 lb)		
ENVIRONMENTAL CHARACTERISTICS			
Operating Temperature	0 to +50 °C		
Storage Temperature	-40 to +70 °C		
Relative Humidity	95%, non-condensing		
Transit and shock	2G vibration, 30G shock		

#### Notes:

## **Ordering Information**

DESCRIPTION	AFL NO.
FOCIS Flex Kit, soft carry case / holster, USB cable, AC charger, TRM 2.0 reporting software, reference guide, no tips	FOCIS-FLX-P4XN
FOCIS Flex Kit, soft carry case / holster, USB cable, AC charger, TRM 2.0 reporting software, reference guide, 2 user-selected UPC adapter tips (ferrule and bulkhead), user-selected One-Click cleaner	FOCIS-FLX-P4XU
FOCIS Flex Kit, soft carry case / holster, USB cable, AC charger, TRM 2.0 reporting software, reference guide, 2 user-selected APC adapter tips (ferrule and bulkhead), user-selected One-Click cleaner	FOCIS-FLX-P4XA

a. All specifications valid at 23°C  $\pm$ 2°C (73.4°F  $\pm$ 3.6°F).



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# **Fiber Optic Connector Inspection System**

### FlexTester PRO2 and Complete2 Kits with FOCIS Flex

**PRO2 Kits** include the following items:

- User-selected FLX380-3xx or OFL280-1xx FlexTester with accessories (AC charger, USB cable, TRM® 2.0 Advanced Test Results Manager)
- FOCIS Flex Fiber Optic Connector Inspection System with accessories (AC charger, USB cable, soft carry case/holster)
- Two user-selected adapter tips and one user-selected One-Click Cleaner
- 150 m Fiber Ring (launch cable) with user-specified connectors
- Rugged, waterproof carry case

Complete2 Kits include everything in the FlexTester PRO2 kit plus choice of OFI optical fiber identifier.

See FLX380 or OFL280 data sheet for FlexTester PRO2 and Complete2 Kit ordering information.

## FlexScan OTDR PRO and Complete Kits with FOCIS Flex

**PRO Kits** include the following items:

- FlexScan with accessories (AC charger, carry strap, SC/2.5 mm connector adapters, TRM® 2.0 Advanced Test Results Manager, carry case)
- FOCIS Flex Fiber Optic Connector Inspection System with accessories (AC charger, USB cable, soft carry case/holster)
- Two user-selected adapter tips and one user-selected One-Click Cleaner
- 150 m Fiber Ring (launch cable) with user-specified connectors

Complete kits expand on PRO Kits by adding bend insensitive fiber identifier with optional power meter (OFI-BI or OFI-BIPM).

See FlexScan data sheet for FlexScan PRO and Complete Kit ordering information.

#### **FOCIS Flex Adapter Tips** (Contact AFL for adapter tips for other connector types)

DESCRIPTION	AFL NO.
SC-UPC bulkhead adapter tip	FFLX-01-SC
FC-UPC bulkhead adapter tip	FFLX-01-FC
ST-UPC bulkhead adapter tip	FFLX-01-ST
LC-UPC bulkhead adapter tip	FFLX-01-LC
Universal 2.5 mm, UPC ferrule adapter tip	FFLX-01-U25
Universal 1.25 mm, UPC ferrule adapter tip	FFLX-01-U125
SC-APC bulkhead adapter tip	FFLX-01-ASC
FC-APC bulkhead adapter tip	FFLX-01-AFC
LC-APC bulkhead adapter tip	FFLX-01-ALC
Universal 2.5 mm, APC ferrule adapter tip	FFLX-01-A25
Universal 1.25 mm, APC ferrule adapter tip	FFLX-01-A125
FOCIS Flex adapter extension tube, straight, 46 mm	FFLX-01-EXTS46

FOCIS Flex adapter extension tube, straight, 80 mm:	FFLX-01-EXTS80
E2000 PC/UPC bulkhead adapter tip	DFS1-00-0023MR
E2000 APC bulkhead adapter tip	DFS1-01-0008MR
Tip for SC/APC (OptiTap®) bulkhead adapter	DFS1-01-0007MR
Tip for OptiTip® APC ferrule and bulkhead adapter	DFS1-01-0013MR
Multi-row MTP/PC ferrule & bulkhead adapter extended tip kit (base plus multi-row MTP/PC front end tip)	DFS1-00-0050MR
MTP/PC ferrule & bulkhead adapter extended tip kit (base plus MTP/PC front end tip)	DFS1-00-0037MR
MTP/PC and MTP/APC ferrule & bulkhead adapter extended tip kit (base plus MTP/PC and MTP/APC front end tips)	DFS1-00-0042MR
MTP/APC ferrule and bulkhead adapter extended tip kit (base plus MTP/APC front end tip)	DFS1-01-0010MR







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