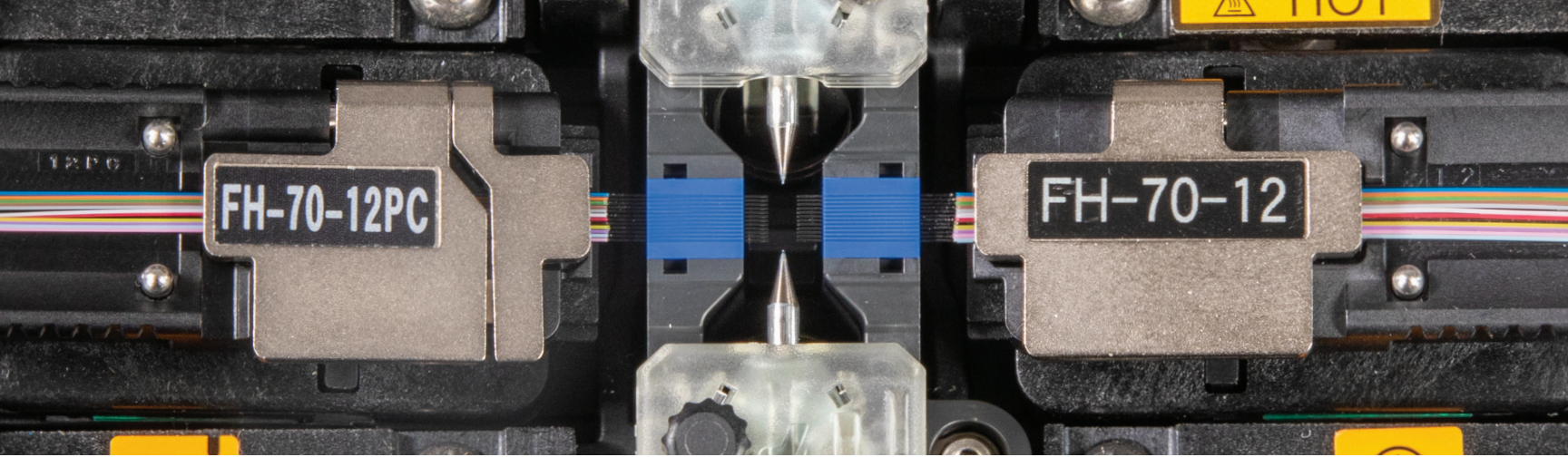
SPLICING AND TEST & INSPECTION ENTERPRISE SELECTION GUIDE

Splicing and Test & Inspection Enterprise Selection Guide

Table of Contents

Fusion Splicing Systems 3
Test and Measurement 8
Inspection and Cleaning 10



Fujikura 90S+ and 90R Fusion Splicers

These splicers feature ergonomic improvements, combined with enhancements to automate operation, and are designed to maximize productivity in the field and minimize downtime for routine maintenance.

90S+ Fusion Splicer

- Cleaver tracking and upkeep with wireless communication
- Improved real-time arc control for fibers with poor cleave angles
- Loose and tight buffer with same sheath clamp
- Graphical User Interface with 5" Touchscreen
- Multi-function transit case with integrated workstation

90R Fusion Splicer

- Cleaver tracking and upkeep with wireless communication
- User replaceable v-grooves
- 200 µm and 250 µm SWR universal ribbon prep accessories
- Graphical User Interface with 5" Touchscreen
- Multi-function transit case with integrated workstation

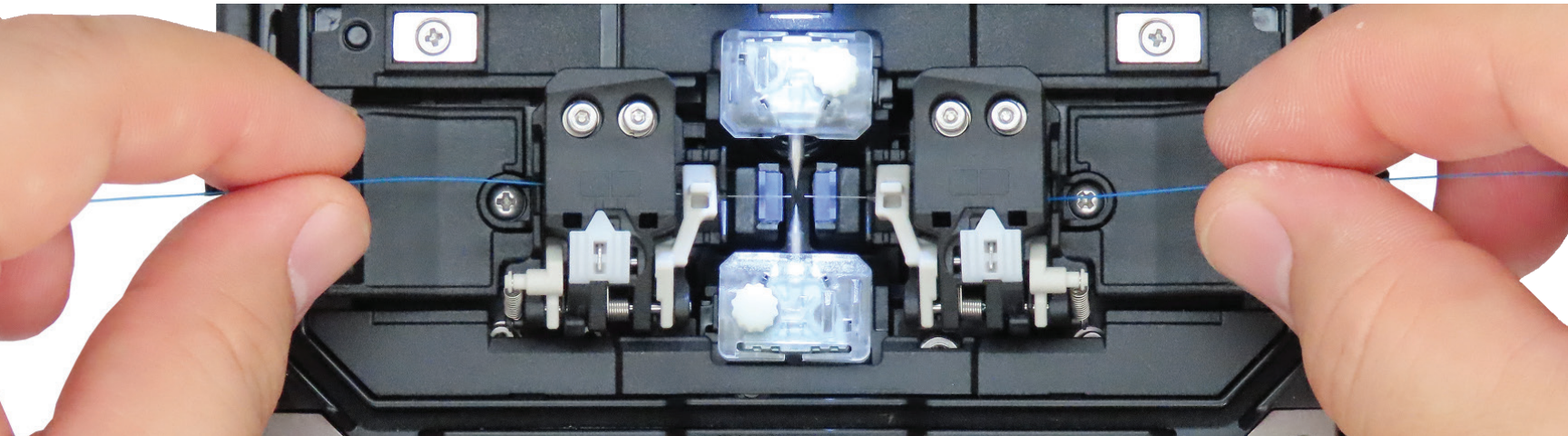
Fujikura 45S Cladding Alignment Fusion Splicer

The 45S cladding alignment fusion splicer is changing the way people splice fiber in small- to mid-fiber count applications. This Fujikura splicer debuts a landmark improvement to the fusion splicing process with the ability to prepare and load both fibers simultaneously.

A new hand-held fiber coating stripper, the SS-05, is capable of stripping two 250 µm coated fibers in the same pass, along with a new CT-50 adapter plate which can likewise accommodate two bare fibers for cleaving.

After preparation, the 45S patented sheath clamps enable loading both fibers simultaneously into the splicer with one fiber in each hand. The 45S sheath clamps are mechanically linked to the wind protector to open both sheath clamps for quick sleeve positioning and transfer to the tube heater.

The 45S tube heater shrinks sleeves much faster than its predecessor with a nominal ~20sec heat time for 60 mm sleeves down from ~26sec. The new simultaneous fiber preparation capability paired with automated sheath clamp opening, and a faster tube heater, combine to lower the overall fusion splicing cycle time by ~30% or more.



CORE ALIGNMENT FUSION SPLICERS

DESCRIPTION	AFL NO.
90S+ Fusion Splicer (machine only)	S017519
90S+ Fusion Splicer Kit (with CT-50 Cleaver)	S017521
90S+ Fusion Splicer without Bluetooth (machine only)	S017520
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

* 90S+ comes with a 2 year warranty

CLADDING ALIGNMENT FUSION SPLICERS

DESCRIPTION	AFL NO.
45S Fusion Splicer Standard Kit (with CT-50 Cleaver)	S018318
45S Fusion Splicer Kit (without cleaver)	S018319
35S Fusion Splicer Standard Kit (with CT-16 Cleaver)	S018314
35S Fusion Splicer Kit (without cleaver)	S018316
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

* All Cladding Alignment Splicers come with a 1 year factory warranty

FIBER CLEAVERS

DESCRIPTION	AFL NO.
CT50 – Single Fiber or Ribbon (Bluetooth)	S017030
CT16 – Single Fiber	S018330

CLEAVER ACCESSORIES

DESCRIPTION	AFL NO.
CB-08 (CT50 Blade Replacement)	S017076
CB-09 (CT16 Blade Replacement)	S018335
ARM-CT50-01 (Replacement Pads/Anvil)	S017122
ARM-CT16-01 (Replacement Pads/Anvil)	S018373

RIBBON SPLICERS

DESCRIPTION	AFL NO.
90R Fusion Splicer (machine only)	S017509
90R Fusion Splicer Kit (CT-50 Cleaver & RS03 thermal stripper)	S017511
90R Fusion Splicer without Bluetooth (machine only)	S017540
90R Fusion Splicer kit without Bluetooth (CT-50 Cleaver and RS01 thermal stripper)	S017510
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

* 90R comes with a 2 year warranty

90S+ Core Alignment Splicer

90R Ribbon Splicer

CT50 (top) and CT16 Cleavers

45S Cladding Alignment Fusion Splicer

35S Cladding Alignment Fusion Splicer

MECHANICAL AND THERMAL STRIPPERS

DESCRIPTION	AFL NO.
RS01 - Thermal	S016815
RS02 - Thermal (Bluetooth)	S016816
RS03 - Thermal (Bluetooth and Cordless)	S016817
SS05 - Dual Fiber Stripper	S018327

SPLICER KIT ITEMS

DESCRIPTION	AFL NO.
12 Fiber V-grooves (90R)	S017548
Electrodes (90 series & 35S/45S)	S017103
Tripod Screw (90 series, 35S/45S, CT-50)	S017524
90 Series Battery	S017512
90 Series Power Cord	S014536
90 Series AC Adapter	S017513
35S/45S Battery	S018324
35S/45S Power Cord	S014390
35S/45S AC Adapter	S018168

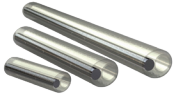
SPLICING ACCESSORIES

DESCRIPTION	AFL NO.
Splicer V-Groove Cleaning Kit	S014397
Splicer V-Groove Cleaning Kit Refill	S014416
FUSEConnect® Tool Kit	FUSE-TL-KT
FUSEConnect Accessory Kit	FUSE-AC-KT
FAT-04 Fiber Arrangement Tool – for forming temporary ribbons	S010212
FAA-03A Ribbon Adhesive (0.5 liter bottle)	S008622
RT-02 Ribbonizing Tool (No Glue)	S017532
FST-12 Ribbon Separation Tool	S014012
Portable Tripod Workstation	S014773
250 µm Single Fiber Holders (Pair)	S017111
900 µm Single Fiber Holders (Pair)	S017113
12 Fiber 250 µm Ribbon Fiber Holders (Pair)	S017119
35S/45S 900 µm Loose Buffer Sheath Clamp	S018333

CONSUMABLES – SPLICE SLEEVES

DESCRIPTION	AFL NO.	PACK
Slim Protection Sleeve 40 mm	S018262	1000 box/100 pack
Slim Protection Sleeve 60 mm	S018263	1000 box/100 pack
60 mm (Single Splice)	S015915	1000 box/100 pack
40 mm (Single Splice)	S015916	1000 box/100 pack
40 mm (Ribbon –12 fiber)	S003027	250 box/5 pack

Splicer V-groove Cleaning Kit


Splice Protection Sleeves

RS03 Thermal Stripper

RT-02 Ribbonizing Tool (no glue)

FST-12 Ribbon Separation Tool

FAT-04 Fiber Arrangement Tool

SS-05 Dual Fiber Strpper

Ribbon Adhesive

900 µm, 250 µm, 12F Ribbon Fiber Holders

FIELD-INSTALLABLE CONNECTORS

TERMINATION	LC	ST	SC	CONNECTORS/PACK
FUSEConnect® (Splice on) +	FUSE-LC9M62-6	FUSE-ST9M62-6	FUSE-SC9M62-6	6
FASTConnect® (Mechanical) *	FAST-LC-MM62.5-6	FAST-ST-MM62.5-6	FAST-SC-MM62.5-6	6

+ Connectors come in 2 mil and 3 mil (contact AFL for specific part numbers)
* 100 for packs of 100 FAST Connectors

FUSECONNECT® MPO SPLICE-ON CONNECTORS WITH HEAT SLEEVE

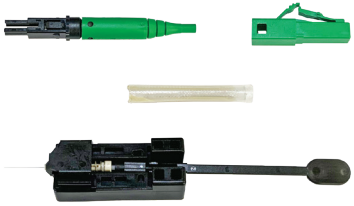
TERMINATION	AFL NO.	CONNECTORS/PACK
MPO, PC, Male (guide pins)	FUSEMPO-S-MM6-3-M-6	6
MPO, PC, Female (no guide pins)	FUSEMPO-S-MM6-3-F-6	6

*Requires Fujikura 90R Ribbon Splicer

FASTConnect Tool Kit

FUSEConnect Tool Kit

FASTConnect Mechanical Connectors



FUSEConnect Mechanical Connectors

TOOLS AND TOOL KITS

SPLICERS AND ACCESSORIES	AFL NO.
90S+ Splicer Kit (Core Alignment splicer with cleaver)	S017521
90R Splicer Kit (Ribbon)	S017511
45S Fusion Splicer Standard Kit (with CT-50 Cleaver)	S018318
45S Fusion Splicer Kit (without cleaver)	S018319
FAT-04 Fiber Arrangement Tool (Ribbonizer)	S010212
Slim Splice Protection Sleeves (40 mm single – QTY: 1000)	S018262
Slim Splice Protection Sleeves (60 mm single – QTY: 1000)	S018263
Splice Protection Sleeves (60 mm single – QTY: 1000)	S015915
Splice Protection Sleeves (40 mm ribbon – QTY: 250)	S003027
Splicer Cleaning Kit	S014397
CONNECTOR TOOLS AND TOOL KITS	**AFL NO.**
FASTConnect Tool Kit (mechanical)	CS001201
FUSEConnect Tool Kit	FUSE-TL-KT
FUSEConnect Accessory Kit	FUSE-AC-KT
FUSEConnect MPO Tool Kit	FUSEMPO-TL-KT
Cleaning Kit	FCP2-10-0900
One-Click® Cleaner SC Pro (775+ cleans)	8500-05-PRO-SC
One-Click Cleaner LC Pro (775+ cleans)	8500-05-PRO-LC
One-Click Cleaner (SC, ST, FC – 500+ Cleans)	8500-05-0001MZ
One-Click Cleaner (MU,L C – 500+Cleans)	8500-05-0002MZ

Test and Measurement

FlexScan® Family of Optical Time Domain Reflectometers (OTDRs)

FlexScan OTDRs are pocket-sized and performance packed. They enable both novice and expert technicians to quickly and reliably troubleshoot optical networks or fully characterize newly installed or repaired networks. FlexScan's SmartAuto® mode uses multi-pulse OTDR scans to quickly and accurately detect, locate, identify and measure network components and faults with just the push of a button. Results may be viewed as traditional OTDR traces or with LinkMap® color-coded icons which clearly identify detected events and their pass/fail status. FlexScan OTDRs weigh less than a pound and feature integrated OLS, OPM, VFL, Bluetooth® and PC-based TRM® 3.0 Test Results Manager reporting software.

Users can significantly reduce multi-fiber test times using FS200-300/304 FleXpress® fast tests plus FlexScan MPO switch control.

QUAD SINGLE-MODE AND MULTIMODE BASE MODEL WITH SMARTAUTO® AND LINKMAP®

DESCRIPTION	AFL NO.
FlexScan FS300 Quad OTDR for both single-mode and multimode PON and Point-to-Point networks. FS300 also features Print-to-PDF for reporting.	FS300-325-BAS-P1-W1

FlexScan FS300 Quad OTDR

SINGLE-MODE BASE MODELS WITH SMARTAUTO, FLEXPRESS® AND LINKMAP

DESCRIPTION	AFL NO.
FS200-100 for verification and troubleshooting of 1310/1550 Point-to-Point networks.	FS200-100-BAS-P1-W1
FS200-300 for verification and troubleshooting 1310/1550 PON and Point-to-Point networks.	FS200-300-BAS-P1-W1
FS200-304 for verification and troubleshooting point-to-point and PON, including live PON troubleshooting.	FS200-304-BAS-P1-W1

OTDR KIT EXTENSIONS FOR FLEXSCAN OTDRS

DESCRIPTION	AFL NO.
PLUS kit adds: 150 m SMF (and MMF for FS300) fiber ring(s), One-Click Cleaner, TRM 3.0 Advanced	FSX00-XXX-PLUS-P1-W1
PRO kit adds to PLUS kit: FOCIS Flex single fiber connector inspection probe, 2 adapter tips	FSX00-XXX-PRO-P1-W1
BIPMe Complete kit adds to PRO kit: OFI-BIPMe fiber identifier that features a power meter, LCD screen, universal head, positive trigger stop to prevent excessive bending and user fatigue. Works on bend insensitive fiber.	FSX00-XXX-BIPM-P1-W1
MPO kit includes: User-selected FlexScan FS200 OTDR, MPO Switch, MPO launch cable, OTDR-to-Switch launch cable, OTDR-to-Switch USB cable, TRM 3.0 Test Results Manager reporting software, carry case which allows OTDR-to-Switch cabling to remain configured during transport and operated without removal from the carry case.	FS200-XXX-MPO-P1-W1

FlexScan FS200 PRO OTDR Kit

OPTICAL LOSS TESTING EQUIPMENT

DESCRIPTION	AFL NO.
OLTS – Power Meter and Light Source Kit: Test loss on MM fiber networks	MLP5-2D
OLTS – Power Meter and Light Source Kit: Test loss on SM fiber networks	SLP 5-6
OLTS – Power Meter and Light Source Kit: Test loss on both SM/MM fiber networks	SMLP5-5
ROGUE® OLTS Certifier: Test and certify both SM and MM fiber networks to ISO/IEC/TIA/IEEE test limits with PASS and FAIL results. Used during installation of both single-fiber and MPO networks. The cB1 model must be paired with a smart device, iB1 model has an integrated 7-inch screen.	RGK-CERT01 (cB1 model) *or* RGK-CERT01B1 (iB1 model)
ROGUE OLTS Certifier: Dual port SM certifier used during installation of both single-fiber and MPO networks. The cB1 model must be paired with a smart device, iB1 model has an integrated 7-inch screen.	RGK-CERT03 (cB1 model) *or* RGK-CERT03B1 (iB1 model)
Multi-fiber Switch Add-On kit: available in both SM and MM	MPO-SM-CERT-ADD *or* MPO-MM-CERT-ADD

OLTS – Power Meter and Light Source Kit

ROGUE OLTS Certifier cB1 and iB1 Models

Multi-Fiber Switch

VFI4

OFI-BIPMe

OFI-400

MT Tracer Kit

FIBER IDENTIFICATION

DESCRIPTION	AFL NO.
Visual Fault Identifiers: VFI4 with 2.5 mm and 1.25 mm adapters	VFI4-01-0900PR
OFI-BIPMe: Bend-Insensitive Optical Fiber Identifier with a built-in Power Meter that detects the presence of signals (traffic, CW or tone) on optical fiber or fiber ribbon. (SM, MM) Universal head and trigger stop to eliminate damaging fiber and user fatigue.	OFI-BIPMe
OFI 400: Reliable Optical Fiber Identifier (OFI) with industry leading 5-year warranty. It enables users to confirm the presence of optical signals (traffic or tone), preventing accidental service interruption.	OFI-400
MT Tracer Kit: Tests 8 and 12 fiber MTP® assemblies – mapping polarity, continuity, and fiber mismatch. Automatically sequence through fibers or select individual channels	TRCR-90-0900

Inspection and Cleaning

FOCIS FLEX – SELF-CONTAINED, COMPACT, TETHER-FREE SINGLE-FIBER CONNECTOR INSPECTION SYSTEM

DESCRIPTION	AFL NO.
Auto-focus, pass/fail analysis, BT/WiFi, One-Click® Cleaner, carry case, UPC Adapter Tips	FOCIS-FLX-P4XU
Auto-focus, pass/fail analysis, BT/WiFi, One-Click Cleaner, carry case, APC Adapter Tips	FOCIS-FLX-P4XA
Auto-focus, pass/fail analysis, BT/WiFi, One-Click Cleaner, carry case, UPC & APC Adapter Tips	FOCIS-FLX-P4XUA
FOCIS Flex no wireless version, UPC Adapter Tips	FOCIS-FLX-NW-P4XU
FOCIS Flex no wireless version, APC Adapter Tips	FOCIS-FLX-NW-P4XA
FOCIS Flex no wireless version, UPC & APC Adapter Tips	FOCIS-FLX-NW-P4XUA

FOCIS LIGHTNING®2 – ULTRAFAST, COMPACT, TETHER-FREE MPO CONNECTOR INSPECTION SYSTEM

DESCRIPTION	AFL NO.
FOCIS Lightning2 Kit, soft carry case, USB cable, (1) UPC ferrule and bulkhead adapter tip, (2) One-Click MPO cleaners	FOCIS-LT2-U
FOCIS Lightning2 Kit, soft carry case, USB cable, (1) APC ferrule and bulkhead adapter tip, (2) One-Click MPO cleaners	FOCIS-LT2-A
FOCIS Lightning2 Kit, soft carry case, USB cable, (1) UPC and (1) APC ferrule and bulkhead adapter tips, (2) One-Click MPO cleaners	FOCIS-LT2-UA
FOCIS Lightning2 No Wireless Kit, soft carry case, USB cable, (1) UPC and (1) APC ferrule and bulkhead adapter tips, (2) One-Click MPO cleaners	FOCIS-LT2-NW-UA
Coupler for most 'FFLX' single fiber connector adapter tips	FLTNG2-01-SFC

FOCIS Flex

FOCIS Lightning®2

CLEANING KITS

DESCRIPTION	AFL NO.
Our most popular cleaning kit provides an excellent sampling of fiber optic cleaning supplies: Base Package: FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC & LC One-Click® Cleaners, Debris Destroyer	FCP2-10-0900
Take our most popular kit and add an MPO One-Click Cleaner.	FCP2-00-0901
Enterprise Easy-Access Cleaning kit features these wet & dry cleaning supplies: FCC2 Fiber Connector Cleaner and Preparation Fluid (can), FCC3 Debris Destroyer Fiber Optic Cleaning Pen, CCTS-12 (for 1.25 mm ferrule) and CCTS-25 (for 2.5 mm ferrule) Connector Cleaning Tips, Cletop-S, Type B with White Tape, One-Click Cleaners (Duplex LC, LC/MU, Ultra 2.5, MPO/MTP), Soft Carry Case	FCP3-00-0901

FCP2-00-0901

CLEANING SUPPLIES

DESCRIPTION	AFL NO.
One-Click® Cleaner SC Pro (775+ cleans)	8500-05-PRO-SC
One-Click Cleaner LC Pro (775+ cleans)	8500-05-PRO-LC
One-Click Cleaner SC, ST, FC (500+ cleans) works on Ferrules & bulkheads	8500-05-0001MZ
One-Click Cleaner MU/LC (500+ cleans) works on Ferrules & bulkheads	8500-05-0002MZ
One-Click Cleaner D-LC, Duplex LC (2 x 500+ cleans) works on Ferrules & bulkheads	8500-05-0008MZ
One-Click Cleaner MPO (500+ cleans) works on Ferrules & bulkheads	8500-05-0030MZ
One-Click Cleaner MPO-16 (500+ cleans) works on Ferrules & bulkheads	8500-05-0013MZ
Cletop SB 2nd gen cleans all types of ferrules	8500-10-0016MZ
Cletop refill	8500-10-0017MZ
FCC2: Fiber connector clean/prep fluid (3 oz/85 g can) used for general wet cleaning & splicing	FCC2-00-0902
FCC2: Fiber cleaning/prep fluid (case 12 cans) used for general wet cleaning & splicing	FCC2-00-0903
FiberWipes™ – optical quality wipes in rugged mini tub (90 wipes per tub)	9000-03-0025MZ
CCTS cleaning tips SC/FC/ST connectors & bulkheads (40 sticks)	CCTS-25-0900MZ
CCTS cleaning tips LC/LC duplex connectors & bulkheads (40 sticks)	CCTS-12-0900MZ

FCP3-00-0901

SC PRO LC PRO SC/ST/FC MU/LC D-LC MPO MPO-16

Cletop SB

FCC2 Fluid

Countertop displays available for Stocking Distributors

[Insert business card here]

www.AFLglobal.com
1.800.235.3423

BRO-13172 7.1.2025
© 2025 AFL, all rights reserved.