Fujikura FASTConnect®

Fujikura's range of FASTConnect® allow you to terminate a fibre in less than a minute. The FASTConnect® is a pre-polished connector which uses mechanical clamping and aligning of a cleaved fibre end which is inserted into the connector body.

The FASTConnect® is available in both singlemode and multimode (OM1 and OM3 10Gig) and a variety of connector types and can be terminated onto 250μm and 900μm coated fibre as well as 2mm and 3mm jacketed cord. Low friction and drop cable FASTConnect® are also available.

All FASTConnect® only need basic fibre preparation tooling and a fibre cleaver. An additional handling jig can be used to terminate onto 2mm/3mm jacketed cord.

Features & Benefits

- Field-installable
- Fast and easy to terminate – less than a minute to complete
- Excellent insertion and return loss performance
- Reusable
- No termination enclosure required
- Handles and performs like a factory-terminated connector
- No polishing, epoxies or glues

Applications

- Direct termination of fibre
- FTTx networks (FTTH, FTTD)
- Enterprise/Access networks
- LAN/WAN
- Permanent / Temporary replacement/ repairs
- Pre-installation cable drum testing

Connector Specifications

| INSERTION LOSS	Singlemode (UPC)	Average: 0.2dB, Maximum: 0.5dB
	Multimode (PC)	Average: 0.1dB, Maximum: 0.5dB
RETURN LOSS @ ROOM TEMP (SINGLEMODE UPC)		Average: -55dB, Maximum: -45dB
OPERATING TEMPERATURE		-40°C to +75°C

Technical Specifications

TWIST TEST CONDITION	2N load, +540°C to -540°C/ cycle, 9 cycles in a test
PULL TEST CONDITION	3N load, 60 sec
IMPACT TEST CONDITION	At 1.5m, 10 repetitions
DURABILITY TEST CONDITION 2	00 repetition of connecting/disconnecting
VIBRATE TEST CONDITION 3	axes 2hr/axis, 1.5mm (peak-peak), 10 to 55Hz (45Hz/min)
THERMAL AGING CONDITION	+85°C±2°C, 168 hours
HUMIDITY TEST CONDITION	90 to 95% RH, Temp 75°C for 168hrs
THERMAL CYCLE CONDITION	-40 to 75°C, 21 cycles for 168 hours (0.25mm fibre)

Product Matix

	SINGLEMODE			OM1		OM3	
	250/900µm	2/3mm	DR/LF	250/900µm	2/3mm	250/900µm	2/3mm
SC	✓	✓	✓	✓	✓	✓	✓
SCA	✓	✓	✓	–	–	–	–
LC	✓	✓	–	✓	✓	✓	✓
LCA	✓	✓	–	–	–	–	–
ST	✓	✓	–	✓	✓	✓	✓

✓ = Available

– = Not Available
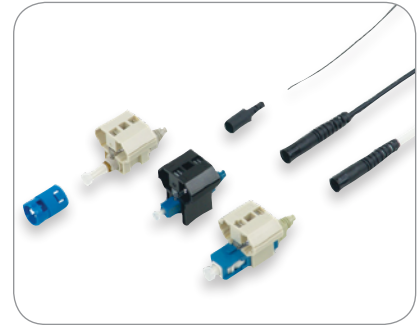
Ordering Information

FAST — [XX] [Y] — [ZZ]

Connector Type
SC
SCA
LC
ST
LCA

Fibre Type
1 = OS1
3 = OM3 (optimised 50µm for 10gig)
6 = OM1

Cord Type
250/900 = 250µm or 900µm
2/3 = 2mm or 3mm
DR = Drop Cable*
LF = Low Friction*

* DR and LF only available in SC or SCA connector type.
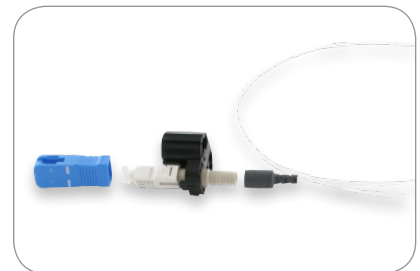
Tools For 2/3mm Connector Types

- FAST-TOOL-LC
- FAST-TOOL-SC
- FAST-TOOL-ST

Tool kits come with assembly tool and clamps to suit 2mm and 3mm cord.

Related Products

- AFL FASTConnect® Termination Tool Kits
- AFL Cleaning Products
- Fujikura Cleavers
- Visual Fault Locators

Interior Structure

Bare Fiber Securing Clamp
Stripped Fiber Securing Clamp
Ferrule
Pre-installed Fiber
Refractive Index Matching Gel
Inserted Fiber

Cross-sectional View

Wedge
Fiber

Polished Optical fiber is pre-affixed at the tip of the connector and stripped fiber is cleaved and aligned until it touches the built-in fiber, where connection is done via mechanical splice method