Outline
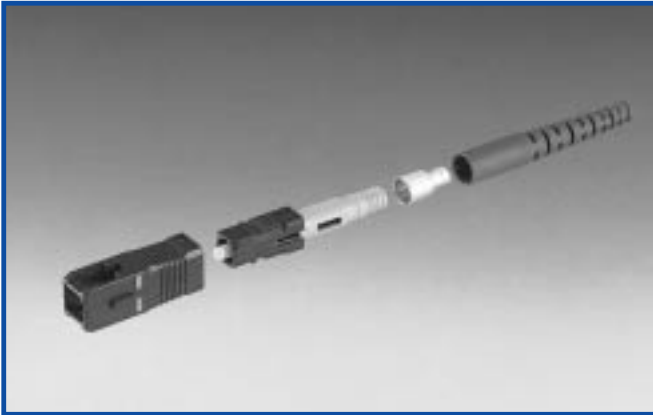
The field installable optical connectors are designed to be easily installed in the field.

The mechanical splice technology allows you to attach connectors with pre-polished endfaces to optical cables quickly and easily.

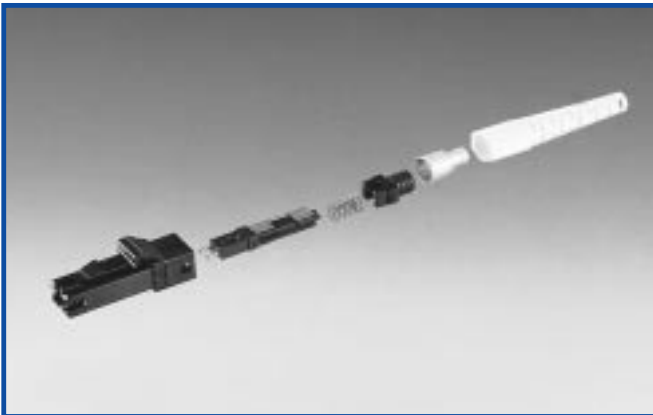Field installable connectors are available in various types: SC and MT-RJ connectors.

■■Field Installable SC Connector (Before Install)

■■Field Installable SC Connector (After Installed)
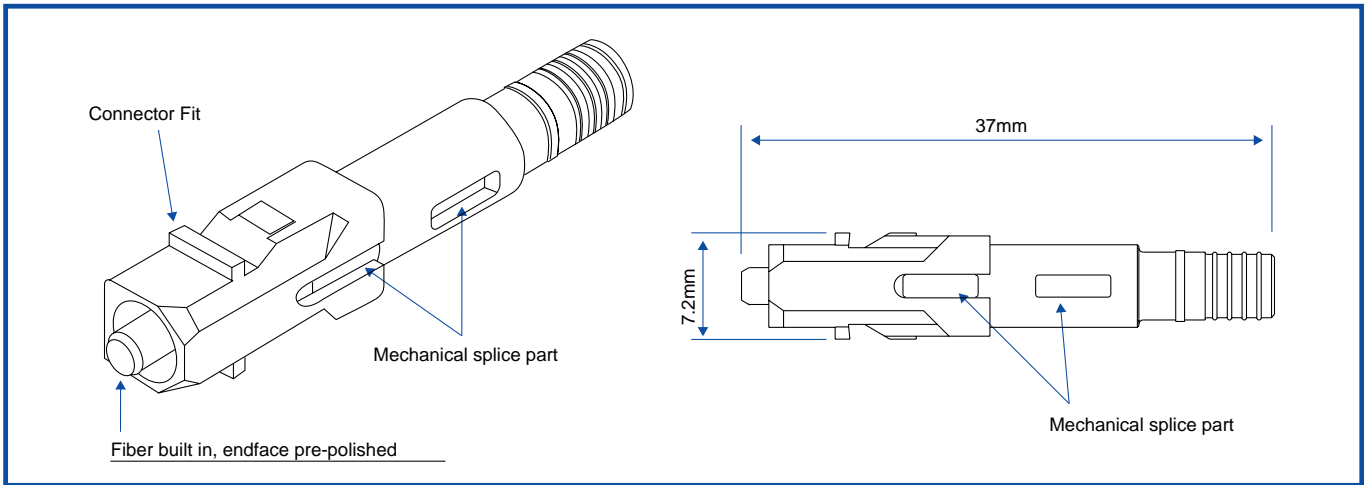
■■Field Installable MT-RJ Connector (Before Install)

■■Field Installable MT-RJ Connector (After Installed)

Connector Components

❶Housing body
❷Field installable Mini-MT ferrule
❸Spring
❹Spring push
❺Crimp eyelet (only for cord assembly type)
❻Boots

Connector Fit

37mm

7.2mm

Mechanical splice part

Mechanical splice part

Fiber built in, endface pre-polished

Assembling Process

Fiber

1 Prepare the fibers and place the connetor into the assembly tool.

Wedge

Open the mechanical splice

2 Open the mechanical splice with the wedge and insert the fiber.

3 Remove the wedge and the connector from the assembly tool.
Assemble the rubber boot.

List of Connector Characteristics

Connector Type	Fiber Type	Polishing Type	Connection Loss	Return Loss
SC	SM10/125	SPC	≤0.9dB(Ave. 0.5dB)	≥40dB
	GI50/125	PC	≤0.6dB(Ave. 0.1dB)	–
	GI62.5/125	PC	≤0.6dB(Ave. 0.1dB)	–
MT-RJ Plug	SM10/125	PC	≤1.0dB(Ave. 0.6dB)	≥40dB
	GI50/125	PC	≤0.6dB(Ave. 0.1dB)	–
	GI62.5/125	PC	≤0.6dB(Ave. 0.1dB)	–

NOTE: The Connection Loss and Return Loss as measured against master connectors.

Connector Types

Model Name	FISC - SM - 09/00
	❶ ❷ ❸

❶ Connector Type

FISC: Field Installable SC Connector

FIRJ: Field Installable MT-RJ Plug

❷ Fiber Type

SM:SM10/125

G5:GI50/125

G6:GI62.5/125

❸ Fiber Cord Type (SC)

09/00: 0.9mm-diameter fiber Applicable fiber diameter; 0.85-0.95mm

09/20: 2.0mm-diameter cord

09/28: 2.8mm-diameter cord

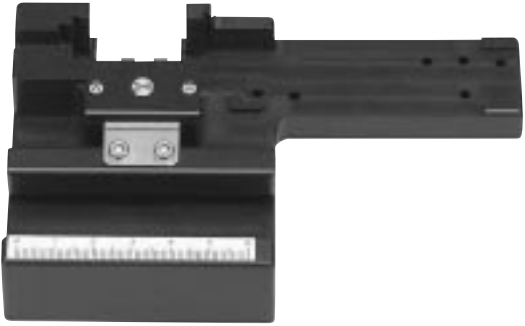025/00: 0.25mm-diameter fiber Applicable fiber diameter; 0.240-0.265mm

❸ Fiber Cord Type (MT-RJ Plug)

0075/00: 0.75mm pitch, 2-fiber ribbon core

075/28: 2.8mm-diameter cord

■ LINEUP OF OPTICAL CONNECTOR FIELD INSTALLING TOOLS (EXAMPLE)

FI-KITSC-C

TOOL KIT STANDARD COMPONENTS
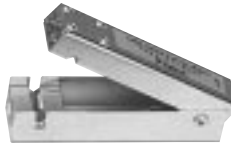
SC Connector Field Installing Tools

Assembly Tool	Mechanical stripper (for 0.9-diameter fiber)	Optical fiber holder (for 0.9-diameter fiber x 3.0)
	Mechanical stripper (for 0.25-diameter fiber)	Optical fiber holder (for 0.25-diameter fiber)
Connector table (for SC)	Sponge attachment	Spacer C for SC (for 0.9-diameter fiber) · Alcohol container

Cord Processing Tools

Cutter for Aramid Yam	Cable cutting tool (for 2.0-diameter)cord	Crimper

Options

Connector table (for MT-RJ)	Mechanical stripper (for 0.75 PX2 fiber ribbon)	Holder attachment (for MT-RJ)
Mechanical splice spacer	Optical fiber holder (for 0.75 PX2 fiber ribbon)	Cable cutting tool (for 3.0 diameter cord)

LIST OF SC/MT-RJ CONNECTOR FIELD INSTALLING TOOLS

TOOL KIT COMPONENTS

No.	Component Name	Q'ty	Model Name	FI-KITSC-A	FI-KITSC-B	FI-KITMTRJ-A	FI-KITSC-C
1	Assembly tool for SC	1	FI-TLSC	O	O		
2	Assembly tool for MT-RJ	1	FI-TLMTRJ			O	
3	Assembly tool	1	FI-TLBD				O
4	Connector table (for SC)	1	FI-ATSC				O
5	Connector table (for MT-RJ)	1	FI-ATMTRJ				+
6	Sponge attachment	1	FI-HSCST				O
7	Holder attachment	1	FI-HMTRJ				+
8	Optical fiber holder (for 0.9-diameter x 3.0)	1	FI-FH09	O	O		O
9	Optical fiber holder (for 0.25-diameter fiber)	1	FMS-FH025	O	+		O
10	Optical fiber holder (for 0.75PX2 fiber ribbon)	1	FI-FH2R			O	+
11	Mechanical stripper (for 0.9-diameter fiber)	1	FMS-MSTR09	O	O		O
12	Mechanical stripper (for 0.25-diameter fiber)	1	FMS-MSTR025	O	+		O
13	Mechanical stripper spacer S	1	FMS-MSTR-SP	O	O		O
14	Mechanical stripper (0.75PX2 fiber ribbon)	1	FI-MSTR2R			O	+
15	Cleaver	1	CT-04B	O	+	O	+
16	Spacer C for SC/ST (for 0.9-diameter fiber)	1	FI-SP09	O	O		O
17	Spacer for Mechanical Splice	1	FMS-SP-C			O	+
18	Holder spacer (for 0.9-diameter fiber)	1	FI-FH09-SP		O		
19	Loupe	1	FMS-LP			O	
20	Cable cutting tool (for 2.0-diameter cord)	1	FI-SCUT(2.0)		+		O
21	Cable cutting tool (for 3.0-diameter cord)	1	FI-SCUT(3.0)	+	O	+	+
22	Alcohol container	1	FI-ALC	O		O	O
23	Hand rapping	1	FMS-HR		+		
24	cutter for Aramid Yam	1	FI-ACUT		O		O
25	crimper	1	FI-CRPT	+	O	+	O
26	Instruction Manual	1		O	O	O	O
27	Carrying case	1		O	O	O	O

O:Standard
+:Optional

FI-KITSC-A : A took kit for field installable SC connector of fiber type. Can also be used to work on cord type connectors by adding optional tools.

FI-KITSC-B : A took kit for field installable SC connectors of fiber cord type. A standard kit is intended for a 0.9mm-diameter fiber, and can also be used for a 0.25mm-diameter fiber by adding optional tools.

FI-KITMTRJ-A : A tool kit for field installable MT-RJ connectors of fiber type. Can also be used to work on cord type connectors by adding optional tools.

FI-SKITSC-C : This is a simplified version of assembly tool kits. A standard kit is made up of tools for SC connectors, and can also be used in installing MT-RJ connectors by adding optional tools (FI-OPKITMTRJ).