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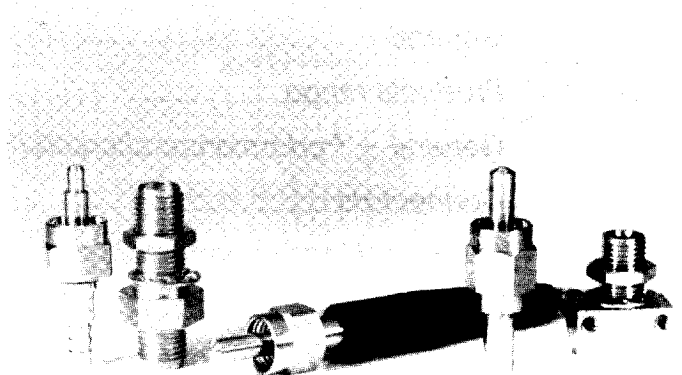
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Items in this catalog covered by French and Foreign Patents and/or Patents Pending.

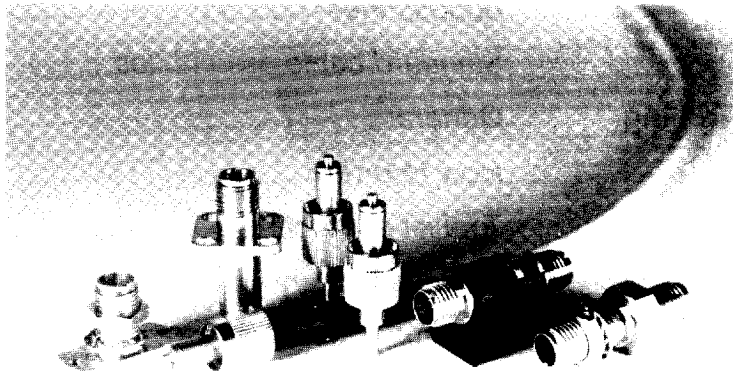
February 1994 edition

PRODUCTS

● **F-SMA**



● **MFO-S**





GENERAL

The two series of connectors presented in this catalog are designed to accommodate silica/silica multimode optical fibers. They are all designed to be used simply and universally, through bonding and polishing.

They can be utilized in a broad range of fields :

- Local area networks
- Computer industry
- Data-communications
- Instruments, etc

A universal crimping system makes it possible to use these series with all existing major standard cables.

PERFORMANCE CHARACTERISTICS

	F-SMA	MFO-S
Typical insertion loss	1.5 dB	.5 dB
Standard deviation	.5	.15

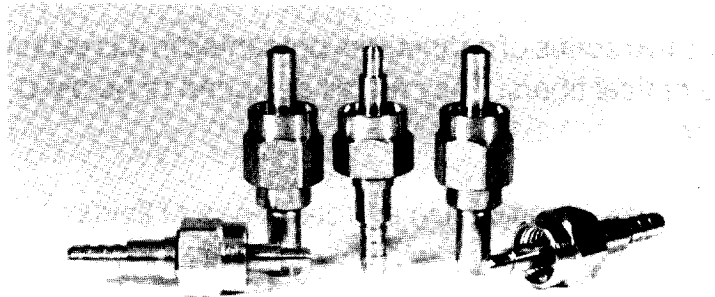
for 50/125 fiber

Other characteristics : see the chapter corresponding to the series.

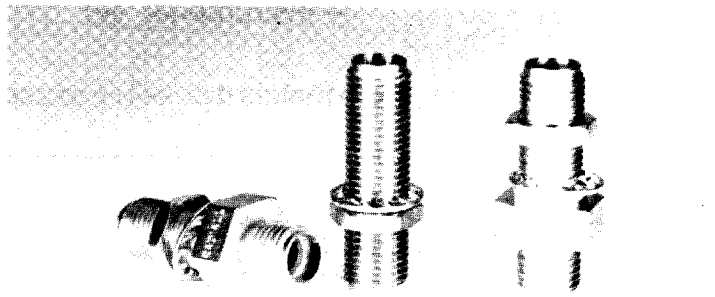
Any of these series may be assembled using a basic set of termination tools, which may be complemented with adaptation kits. For more information see the "tooling" section of this catalog.

PRODUCTS RANGE

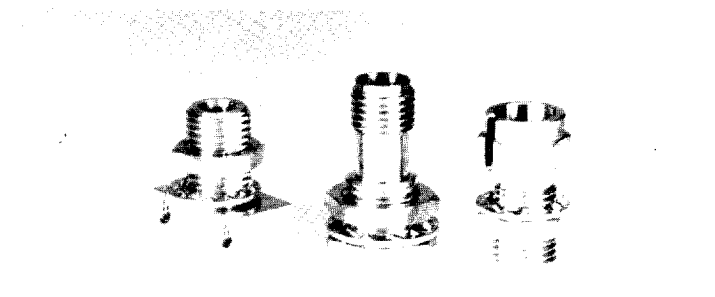
● CONNECTORS



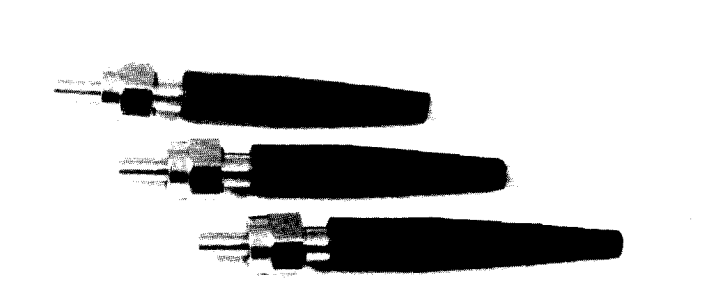
● ADAPTERS



● RECEPTACLES



● STANDARD CABLE ASSEMBLIES



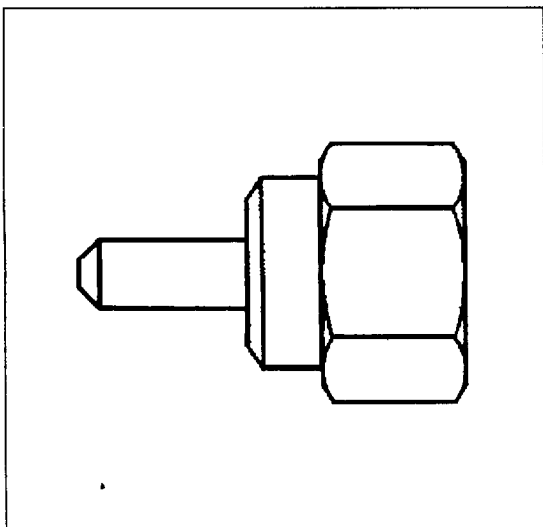
● ACCESSORIES

F-SMA series

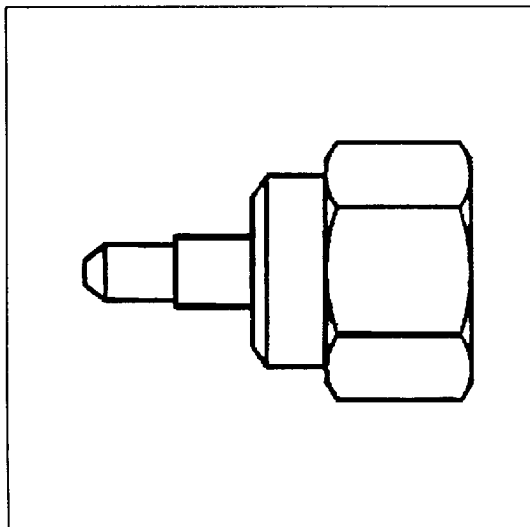
GENERAL

These connectors are designed for systems requiring reliable performance over short and medium ranges.

They are compatible with standard MIL-C-83522 and are available in two versions :



F.SMA5 straight barrel



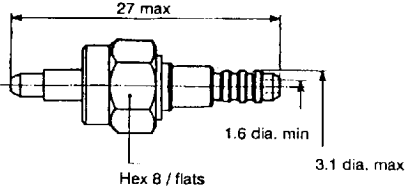
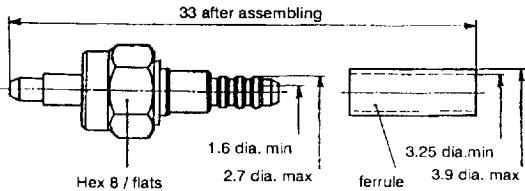
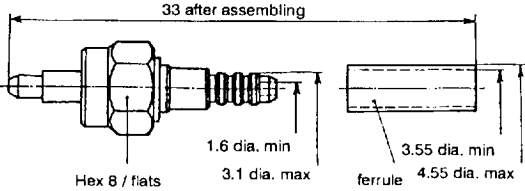
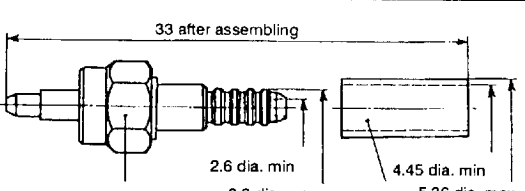
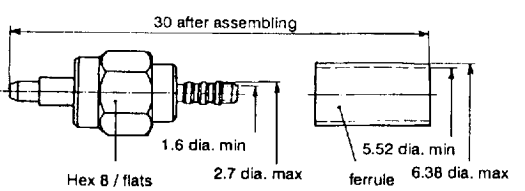
F.SMA6 step-down barrel

PERFORMANCE CHARACTERISTICS

Optical	Typical insertion loss ($\lambda = 850 \text{ nm}$)	: 1.5 dB for 50/125 μm fiber 1.2 dB for 100/140 μm fiber 1 dB for 200/280 μm fiber
Mechanical	Mating life	: 250 cycles
	Coupling retention	: 270 N (depending on cable construction)
	Fiber retention	: 5 N
	Coated fiber or tube retention	: 10 N
	Cable retention	: 100 N
	Recommended coupling torque	: 40 to 45 cmN (use torque wrench F 780 020 000)
	Vibrations	: 10–2000 Hz, 20g
Environmental	Operating temperature	: -55°C to $+85^{\circ}\text{C}$
Material	Connector	Body : Nickel plated brass Centering cone : Copper alloy Lock ring : Nickel plated brass
	Adapter	: Nickel plated brass

F-SMA series

CONNECTORS

Connectors dimensions and admissible cables diameters	Silica/silica fiber sizes			HCS type fiber sizes	
	125 μm	140 μm	280 μm	200/230	400/430
Tube 1.1 mm dia. or buffered fiber to 1.1 mm max	F-SMA 5	F 707 024 000	F 707 025 000	F 707 026 000	
	F-SMA 6	F 708 016 000	F 708 017 000	F 708 018 000	
Tight or loose structure cable 1.6 to 2.6 mm dia. max Tube 1.6 mm dia. max	F-SMA 5	F 707 031 000	F 707 032 000	F 707 033 000	F 707 047 000 F 707 048 000
	F-SMA 6	F 708 024 000	F 708 025 000	F 708 026 000	
Tight or loose structure cable 2.7 to 3.5 mm dia. max (accepts intermediate jacket of 1.57 mm dia. or less)	F-SMA 5	F 707 027 000	F 707 028 000	F 707 029 000	F 707 049 000 F 707 050 000
	F-SMA 6	F 708 019 000	F 708 020 000	F 708 021 000	
Tight or loose structure cable 3.1 to 4.4 mm dia. max (accepts intermediate jacket of 2.54 mm dia. or less)	F-SMA 5	F 707 021 000	F 707 022 000	F 707 030 000	
	F-SMA 6	F 708 012 000	F 708 013 000	F 708 022 000	
Tight or loose structure cable 5 mm dia. max	F-SMA 5	F 707 012 000	F 707 003 000	F 707 023 000	
	F-SMA 6	F 708 005 000	F 708 006 000	F 708 023 000	

Note : Buffered fiber 1.1 mm dia. max
Delivered with plastic boot

NUMERICAL INDEX CONNECTORS

F-SMA 5

PART NUMBER	Fiber sizes
F 707 003 000	100/140
F 707 012 000	50/125 – 62,5/125 – 85/125
F 707 021 000	50/125 – 62,5/125 – 85/125
F 707 022 000	100/140
F 707 023 000	200/280
F 707 024 000	50/125 – 62,5/125 – 85/125
F 707 025 000	100/140
F 707 026 000	200/280
F 707 027 000	50/125 – 62,5/125 – 85/125
F 707 028 000	100/140
F 707 029 000	200/280
F 707 030 000	200/280
F 707 031 000	50/125 – 62,5/125 – 85/125
F 707 032 000	100/140
F 707 033 000	200/280

F-SMA 6

PART NUMBER	Fiber sizes
F 708 005 000	50/125 – 62,5/125 – 85/125
F 708 006 000	100/140
F 708 012 000	50/125 – 62,5/125 – 85/125
F 708 013 000	100/140
F 708 016 000	50/125 – 62,5/125 – 85/125
F 708 017 000	100/140
F 708 018 000	200/280
F 708 019 000	50/125 – 62,5/125 – 85/125
F 708 020 000	100/140
F 708 021 000	200/280
F 708 022 000	200/280
F 708 023 000	200/280
F 708 024 000	50/125 – 62,5/125 – 85/125
F 708 025 000	100/140
F 708 026 000	200/280

Note : See previous page for admissible cable dia.

Each **F.SMA 6** connectors is delivered with two plastic alignment sleeves.

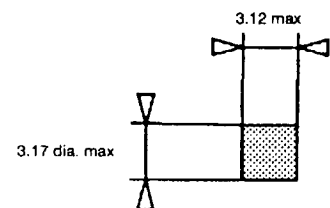
HALF LENGTH alignment sleeve

FUNCTION :

Precisely align a **F.SMA6** connector in a receptacle device.

APPLICATION :

Slide the sleeve over the barrel of the **F.SMA6** connector up to its shoulder, before fitting the connector into the receptacle.



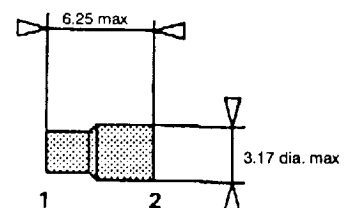
FULL LENGTH alignment sleeve

FUNCTION :

Optimizes alignment of two **F.SMA6** connectors in a **F.SMA** adapter.

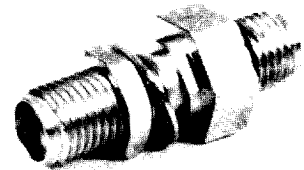
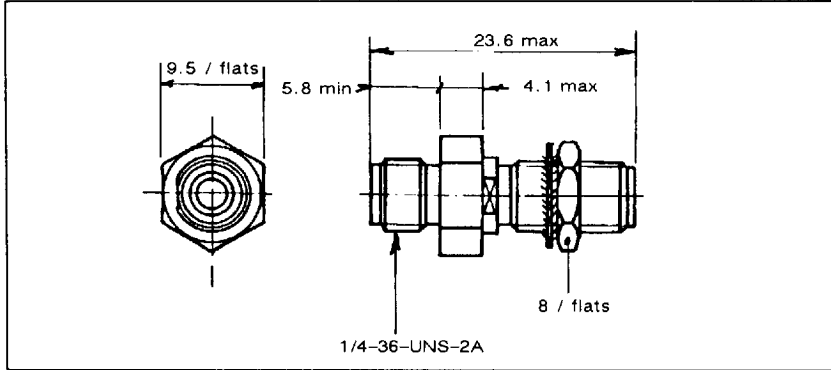
APPLICATION :

Slide the alignment sleeve over one of the **F.SMA6** connector, before inserting them in the adapter, knowing that when unmated the alignment sleeve will remain on the connector fitted at end 2 (see diagram).

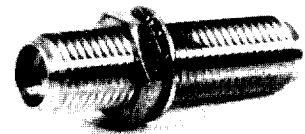
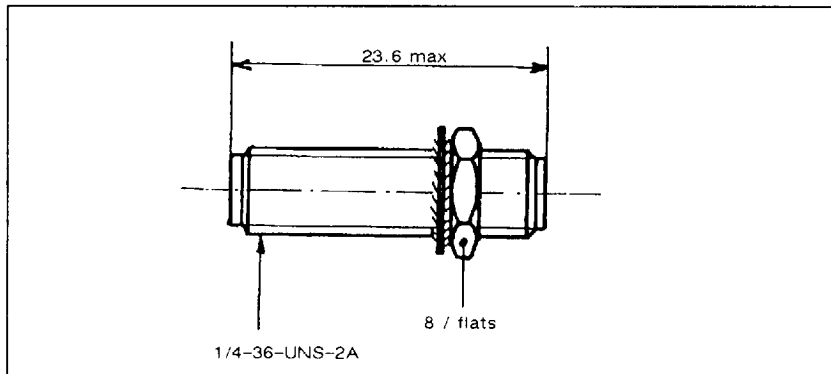


ADAPTERS

BULKHEAD FEEDTHROUGH ADAPTER F 708 720 000



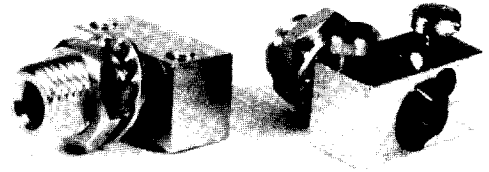
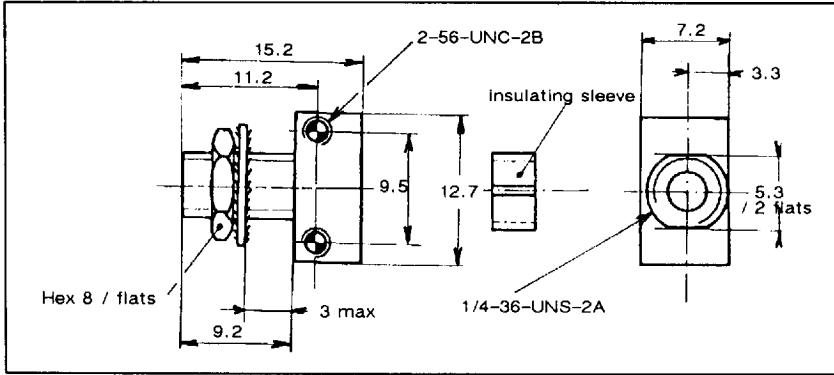
STRAIGHT ADAPTER F 708 721 000



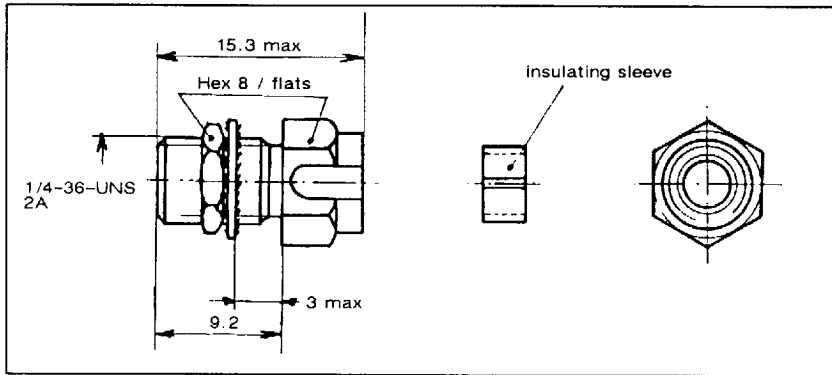
F-SMA series

RECEPTACLES for bulkhead or PC board mounting for TO18 - TO46 devices

RECTANGULAR TYPE, SCREW MOUNT/BULKHEAD MOUNT F 708 400 000



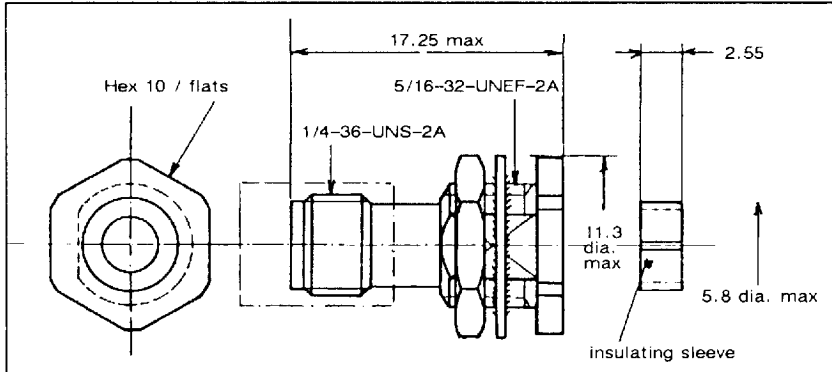
HEXAGONAL TYPE, BULKHEAD MOUNT F 708 401 000



F-SMA series

RECEPTACLES for bulkhead or PC board mounting for TO18 - TO46 devices

HEXAGONAL TYPE, BULKHEAD MOUNT F 708 402 000

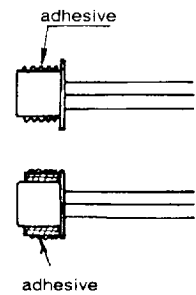


HOW TO ASSEMBLE TO18/TO46 DEVICES IN F.SMA RECEPTACLES

- (A) Coat the device can with adhesive (e.g. Epoxy).
- (B) Slide the insulating sleeve over the device and coat with epoxy again.
- (C) Engage the device and its sleeve in the rear part of the receptacle.

REMARK

Use the gauge F 708 901 000 to optimize the distance between the component and the optical face.

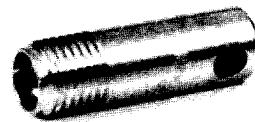


ACCESSORIES

METAL CAP WITH CHAIN FOR ADAPTER OR RECEPTACLE R 125 812 001



METAL CAP FOR CONNECTOR F 706 750 000



CABLE ASSEMBLIES

Fiber sizes	50/125	62,5/125	100/140
Length			
2 meters	F 793 460 200	F 793 460 203	F 793 460 206
3 meters	F 793 460 201	F 793 460 204	F 793 460 207
5 metres	F 793 460 202	F 793 460 205	F 793 460 208

Tight structure cable 3 mm outer dia.

All cable assemblies are fitted with F-SMA 6 connectors (step-down barrel).

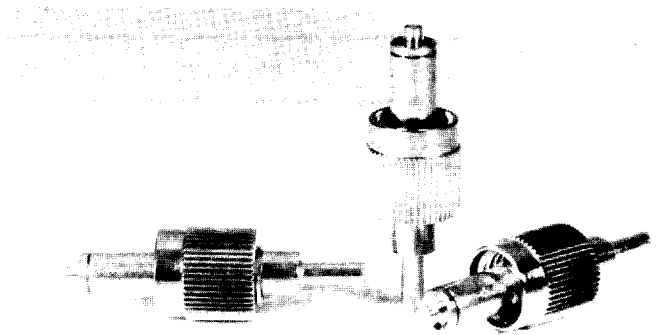
Note : Consult factory for other lengths or cables.

PERFORMANCE CHARACTERISTICS

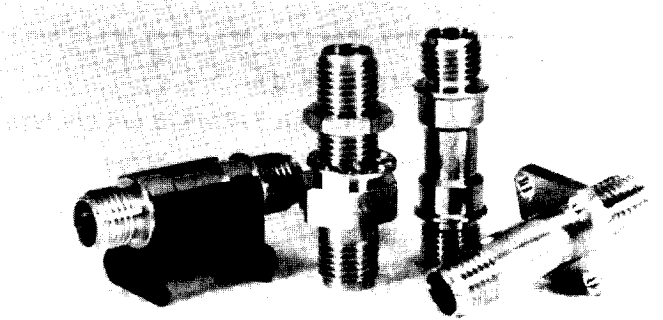
Optical	Attenuation ($\lambda = 850$ nm)	: 1.5 dB
	Numerical aperture of the fiber	: 50/125 μm : .20
		62.5/125 μm : .27
	100/140 μm : .29	
Mechanical	Mating life	: 250 cycles
	Vibrations	: 10–2000 Hz, 20g
<i>Cable</i>	Tensile strength	: 250 N
	Crush resistance	: 100 N/cm
	Bend radius, during installation	: 5 cm mini
	Bend radius, long term	: 3 cm mini
Environmental	Operating temperature	: -20°C to +70°C
	Storage temperature	: -40°C to +70°C

PRODUCTS RANGE

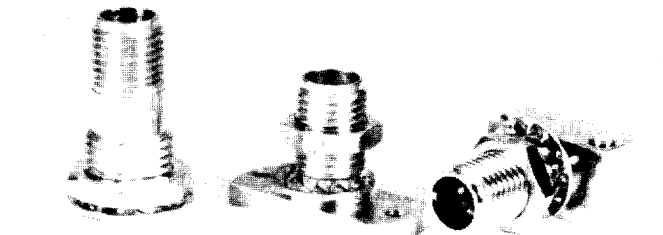
● CONNECTORS



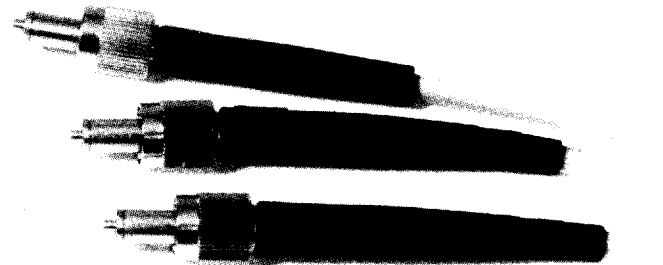
● ADAPTERS



● RECEPTACLES



● STANDARD CABLE ASSEMBLIES



● ACCESSORIES

GENERAL

This high performance series is best suited where a low insertion loss is required.

The performance is comparable to "ceramic technology". The MFO-S CONNECTORS offer optimum stability within operational temperature range.

Repeatability is one of the main features of the MFO-S series thanks to its sphere/cone mating and indexing principle.

CARACTERISTIQUES

Optical	Typical insertion loss ($\lambda = 850 \text{ nm}$)	:	.5 dB (with index matching gel)
Mechanical	Mating life	:	250 cycles (using nickeled adapter) 1000 cycles (using stainless steel adapter)
	Coupling retention	:	100 N
	Fiber retention	:	5 N
	Coated fiber or tube retention	:	10 N
	Cable retention	:	100 N
	Vibrations	:	10-500 Hz, 10g
Environmental	Operating temperature	:	-25°C to +70°C
Material	Connector		
	Body	:	Nickel plated brass
	Centering cone	:	Copper alloy
	Lock ring	:	Nickel plated brass
	Adapter	:	Nickel plated brass

CONNECTORS

Connectors dimensions and admissible cables diameters	Silica/silica fiber sizes			HCS type fiber sizes	
	125 μm	140 μm	280 μm	200/230	400/430
Tube 1.1 mm dia. or buffered fiber to 1.1 mm max	F 712 120 000	F 712 121 000			
Tight or loose structure cable 1.6 to 2.6 mm dia. max Tube 1.6 mm dia max	F 712 122 000	F 712 123 000	F 712 128 000	F 712 143 000	F 712 145 000
Tight or loose structure cable 2.7 to 3.5 mm dia. max (accepts intermediate jacket of 1.57 mm dia. or less)	F 712 124 000	F 712 125 000		F 712 142 000	F 712 144 000
Tight or loose structure cable 3.1 to 4.4 mm dia. max (accepts intermediate jacket of 2.54 mm dia. or less)	F 712 126 000	F 712 127 000			

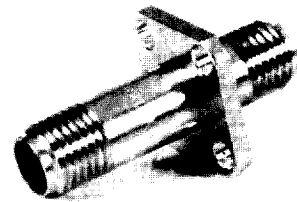
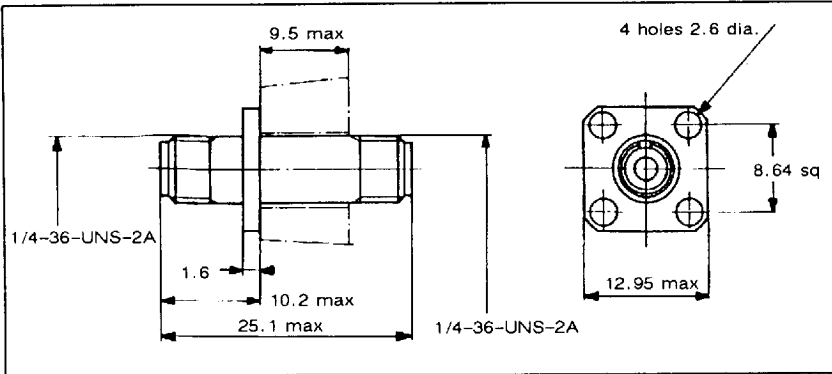
Note : Buffered fiber 1.1 mm dia. max
Delivered with plastic boot

ADAPTERS

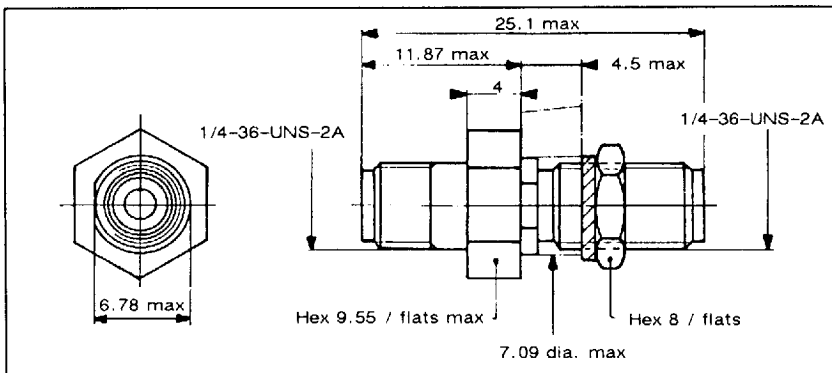
SQUARE FLANGE ADAPTER

Nickel version 250 mating cycles **F 712 700 000**

Stainless steel version 1000 mating cycles **F 712 702 000**



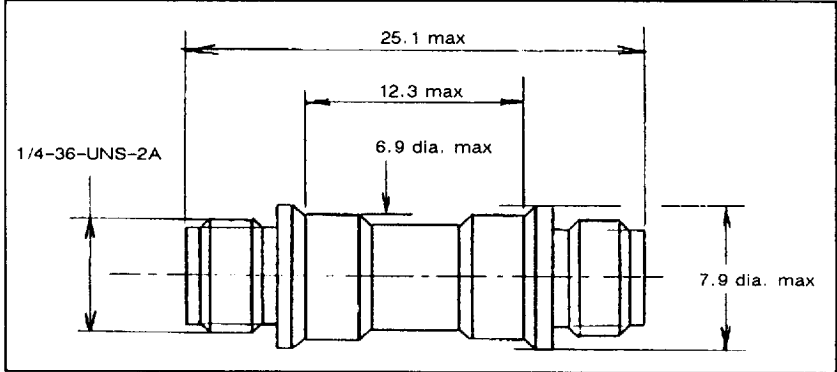
FEEDTHROUGH ADAPTER F 712 720 000



ADAPTERS

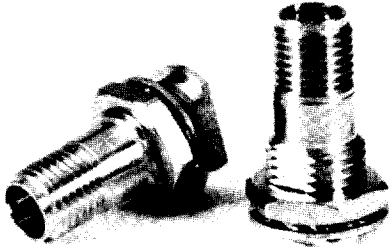
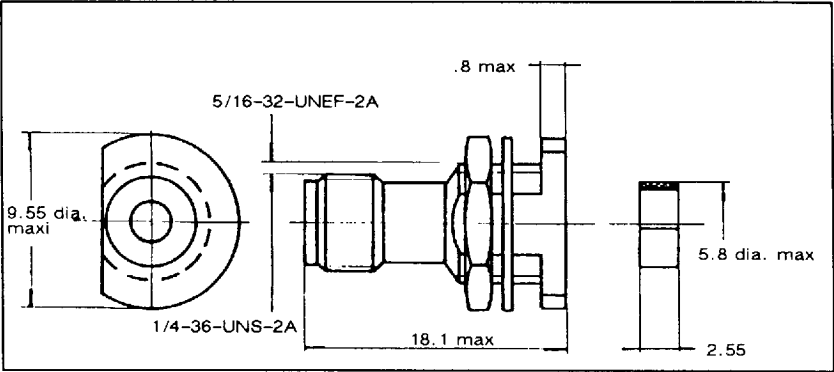
CLIP-ON ADAPTER F 712 742 000

This type can also be used with special holders. See page 26 and 27



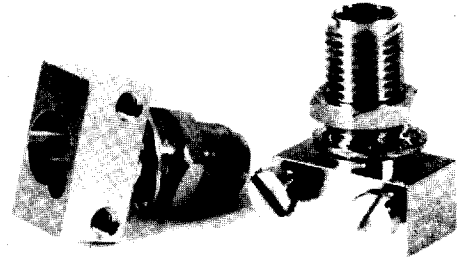
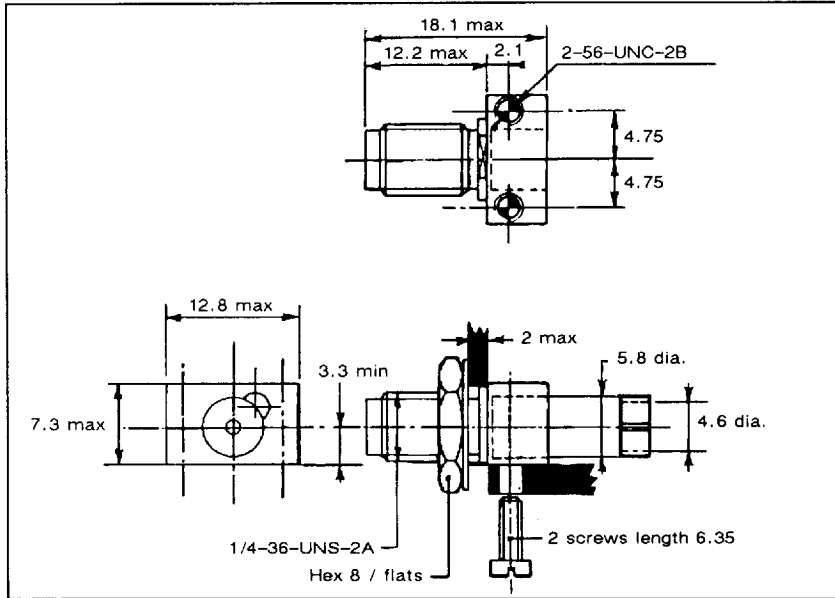
RECEPTACLES for bulkhead or PC board mounting for TO18 - TO46 devices

NARROW FLANGE RECEPTACLE F 712 402 000



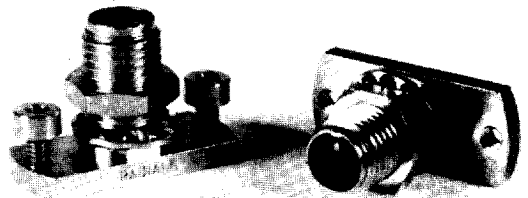
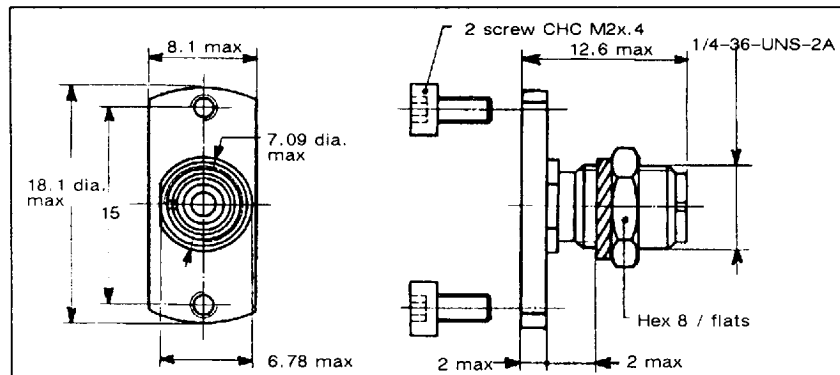
RECEPTACLES for bulkhead or PC board mounting for TO18 - TO46 devices

BULKHEAD FEEDTHROUGH RECEPTACLE F 712 403 000



BULKHEAD FEEDTHROUGH RECEPTACLE F 712 400 000

Note : For coupling a MFO-S connector with an equipment (emitter or receiver)



MFO-S series

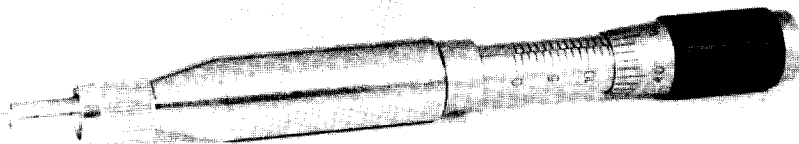
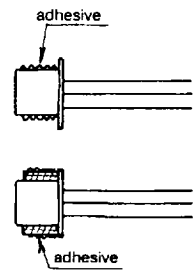
RECEPTACLES for bulkhead or PC board mounting for TO18 – TO46 devices

HOW TO ASSEMBLE TO18/TO46 DEVICES IN MFO-S RECEPTACLES

- A Coat the device can with adhesive (e.g. Epoxy).
- B Slide the insulating sleeve over the device and coat with epoxy again.
- C Engage the device and its sleeve in the rear part of the receptacle.

REMARK

Use the gauge **F 712 904 000** to optimize the distance between the component and the optical face.



ACCESSORIES

HOLDER FOR CLIP-ON ADAPTER

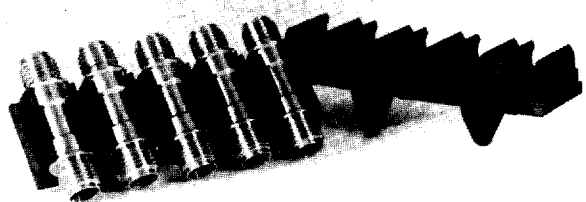
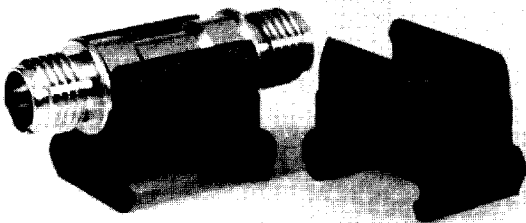
F 718 006 000

To be used in attachment **F 712 742 000**
onto railing (type **UTE C 93462**).

5 POSITIONS HOLDER

F 718 007 000

To be used with attachment **F 712 742 000**.
This holder can be clipped onto a 2 mm thick panel.

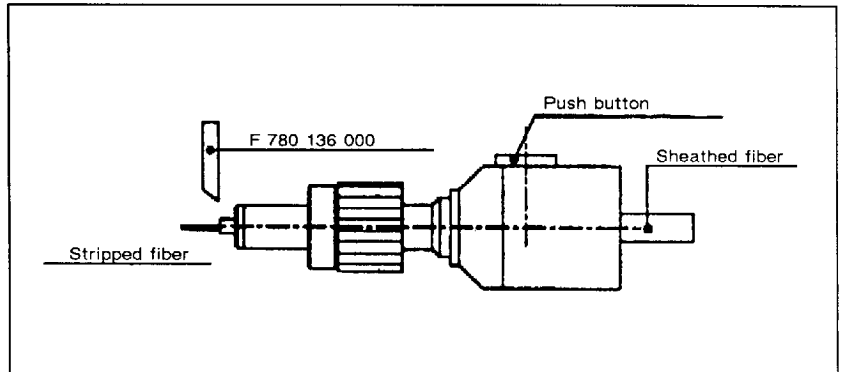
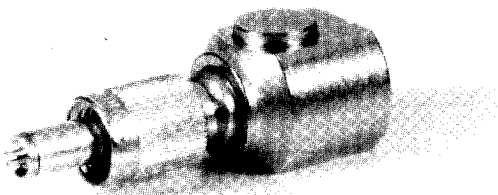


ACCESSORIES

ADAPTER PLUG FOR TEST EQUIPMENT

125 μm fiber **F 712 902 000**

140 μm fiber **F 712 903 000**



These plugs permit the connection of a fiber to test equipment fitted with a MFO-S receptacle. This demountable connection (none crimp, none resined, none glued) cannot match the performance of the MFO-S series because coupling losses are dependent upon the quality of the fiber cut and the distance from the photodiode or LED. Nevertheless, a very satisfactory level of performance is achieved combined with a greatly simplified assembly procedure for laboratory use.

ASSEMBLY INSTRUCTIONS :

- Depress the push button.
- Insert fiber until it butts.
- Release the push button and cut the fiber using cutting plate **F 780 136 000**.

CABLE ASSEMBLIES

Fiber sizes	50/125	62.5/125	100/140
Length			
2 metres	F 793 410 200	F 793 410 203	F 793 410 206
3 metres	F 793 410 201	F 793 410 204	F 793 410 207
5 metres	F 793 410 202	F 793 410 205	F 793 410 208

Tight structure cable 3 mm outer dia.

Note : Consult factory for other lengths or cables.

PERFORMANCE CHARACTERISTICS

Optical	Attenuation ($\lambda = 850$ nm)	: .6 dB (with index matching gel)
	Numerical aperture of the fiber	: 50/125 μm : .20
		62.5/125 μm : .27
	100/140 μm : .29	
Mechanical	Mating life	: 250 cycles
	Vibrations	: 10–500 Hz, 10g
<i>Cable</i>	Tensile strength	: 250 N
	Crush resistance	: 100 N/cm
	Bend radius, during installation	: 5 cm mini
	Bend radius, long term	: 3 cm mini
Environmental	Operating temperature	: -20°C to $+70^{\circ}\text{C}$
	Storage temperature	: -40°C to $+70^{\circ}\text{C}$

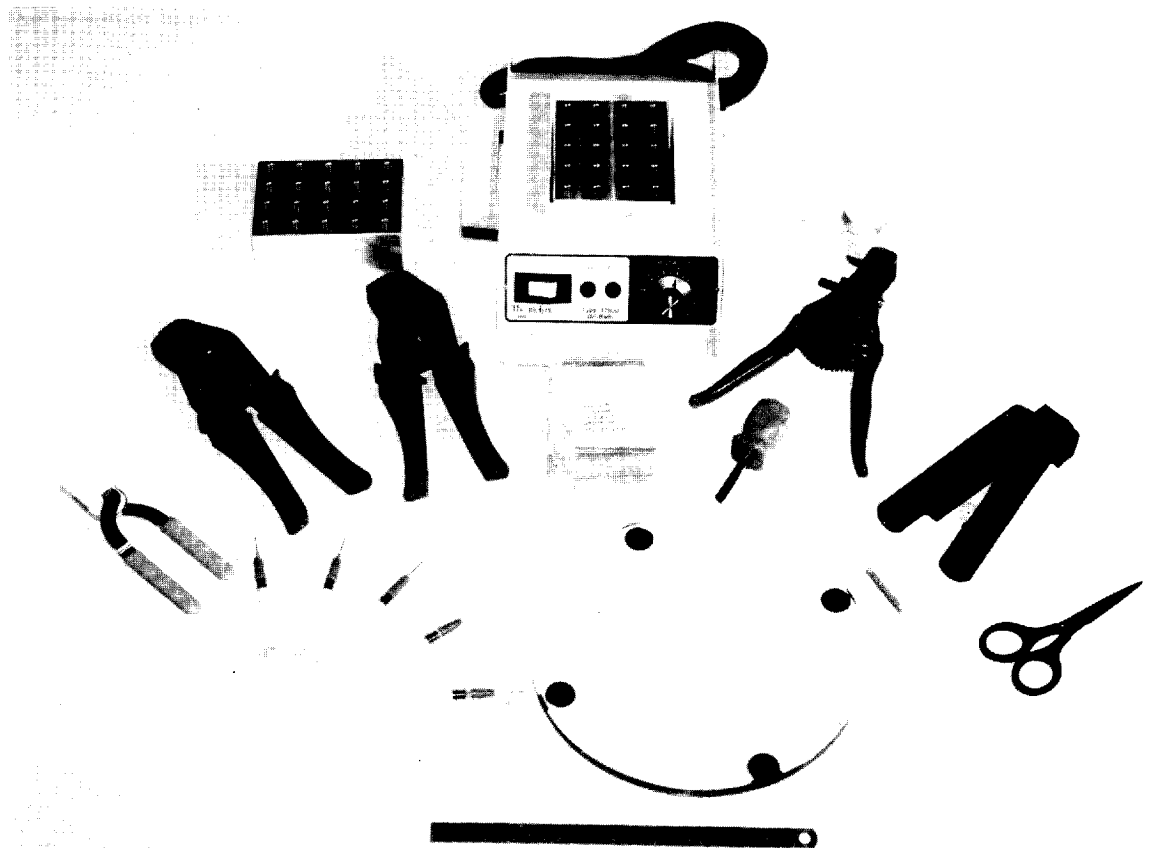
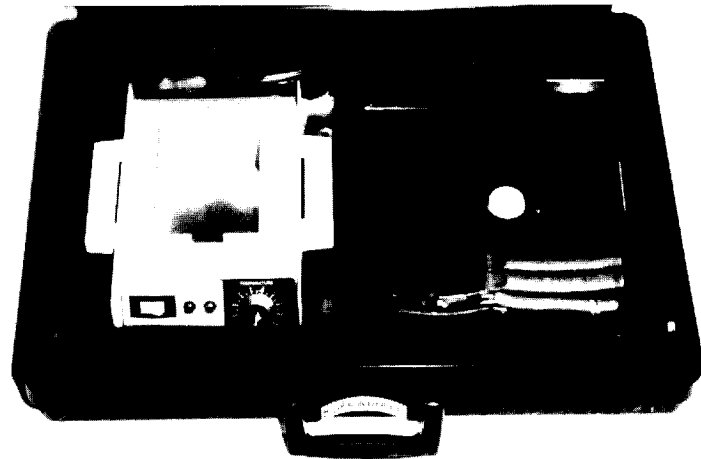
TOOLING

PRESENTATION

- 1 basic kit, comprising all of the accessories common to all three series
- 2 complementary kits, each one fitted with the tools specific to that series
- 1 dial indicator for checking polishing dimensions.

The basic kit has been fitted with individual boxes for arranging all of the accessories contained in the complementary kits as well as the dial indicator.

This formula was especially designed so that users working with different series would need to use only one tool kit, which could be equipped progressively according to need.



HOW TO ORDER YOUR TOOLING

BASIC KIT

F 780 460 000 (220 V)
F 780 461 000 (110 V)
F 780 462 000 (without oven)

Enables assembly of these series



F-SMA

Complementary kit

F 780 454 000

Dial indicator

F 785 002 000



MFO-S

Complementary kit

F 780 452 000

Dial indicator

F 785 002 000

BASIC KIT CONTENTS

F 780 026 000	Buffer stripper
F 780 038 000	Outer jacket stripper
F 780 025 000	Primary stripper
F 780 136 000	Scoring blade
F 780 243 000	5 syringes
F 780 242 000	6 bags of 353ND epoxy resin
F 780 052 000	Crimp tool (Hex 2.67/3.84/4.51)
F 780 039 000	Kevlar cutter
F 780 809 000	Solvent dispenser
F 780 811 000	Waste container
F 780 527 000	Cleaning paper
—	Curing oven

These part numbers can be ordered separately.

COMPLEMENTARY KITS CONTENTS

F-SMA

F 780 454 000

F 708 900 000	Adjustment plug
F 780 003 000	Polishing gauge
F 780 020 000	Torque wrench
F 780 127 000	10 Lapping disks 9 μm
F 780 129 000	10 Lapping disks 0,3 μm
F 780 132 000	Resin applicator
F 780 324 000	Microscope adapter
F 780 405 000	2 polymerizing units

MFO-S

F 780 452 000

F 712 900 000	Adjustment plug
F 780 214 000	Polishing gauge
F 780 127 000	10 Lapping disks 9 μm
F 780 129 000	10 Lapping disks 0,3 μm
F 780 132 000	Resin applicator
F 780 133 000	Index matching gel applicator
F 780 134 000	Index matching gel
F 780 248 000	Microscope adapter
F 780 405 000	2 polymerizing units

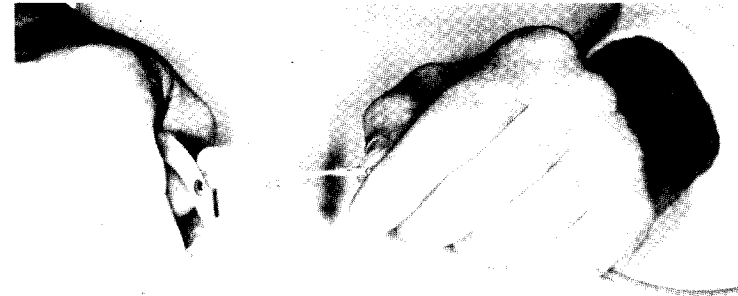
OPTIONAL

F 780 457 000

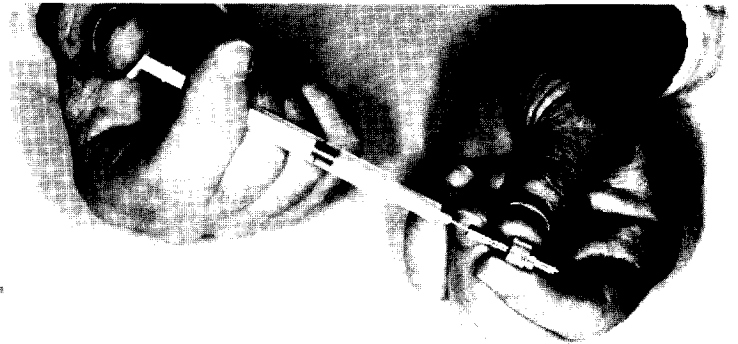
Microscope x100 body
(to be used with F-SMA adaptor F 780 324 000 or
MFO-S adaptor F 780 248 000)

ASSEMBLY INSTRUCTIONS

Summary of assembly procedures.
(Example : MFO-S connector).



1 - Stripping the fiber



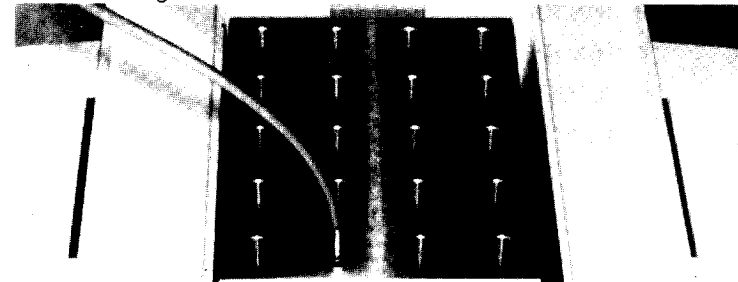
2 - Injecting the resin



3 - Inserting the connector onto the fiber and cable



4 - Crimping



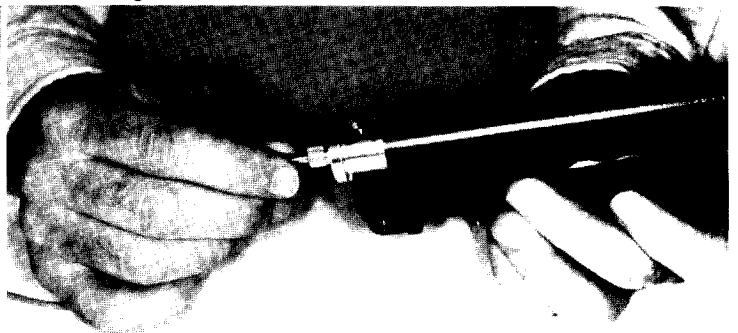
5 - Curing the resin



6 - Cutting the fiber



7 - Polishing



8 - Checking the optical face

NUMERICAL INDEX OF PART NUMBERS

PART NUMBER	DESCRIPTION	Page	PART NUMBER	DESCRIPTION	Page
F 706 750 000	F-SMA 5&6 cap	12	F 712 700 000	MFO-S adapter	17
F 707 003 000	F-SMA 5 connector	8 - 9	F 712 702 000	MFO-S adapter	17
F 707 012 000	F-SMA 5 connector	8 - 9	F 712 720 000	MFO-S adapter	17
F 707 021 000	F-SMA 5 connector	8 - 9	F 712 742 000	MFO-S adapter	18
F 707 022 000	F-SMA 5 connector	8 - 9	F 712 900 000	MFO-S adjustment plug	25
F 707 023 000	F-SMA 5 connector	8 - 9	F 712 902 000	MFO-S adapter plug	21
F 707 024 000	F-SMA 5 connector	8 - 9	F 712 903 000	MFO-S adapter plug	21
F 707 025 000	F-SMA 5 connector	8 - 9	F 712 904 000	MFO-S adjustment gauge	20
F 707 026 000	F-SMA 5 connector	8 - 9	F 718 006 000	Holder for MFO-S adapter	20
F 707 027 000	F-SMA 5 connector	8 - 9	F 718 007 000	Holder for MFO-S adapter	20
F 707 028 000	F-SMA 5 connector	8 - 9	F 780 003 000	F-SMA polishing gauge	25
F 707 029 000	F-SMA 5 connector	8 - 9	F 780 020 000	F-SMA torque wrench	25
F 707 030 000	F-SMA 5 connector	8 - 9	F 780 025 000	Primary stripper	24
F 707 031 000	F-SMA 5 connector	8 - 9	F 780 026 000	Buffer stripper	24
F 707 032 000	F-SMA 5 connector	8 - 9	F 780 038 000	Outer jacket stripper	24
F 707 033 000	F-SMA 5 connector	8 - 9	F 780 039 000	Kevlar cutter	24
F 707 047 000	F-SMA 5 connector	8	F 780 052 000	Crimp tool (Hex. 2.67/3.84/4.51)	24
F 707 048 000	F-SMA 5 connector	8	F 780 127 000	Lapping disks	25
F 707 049 000	F-SMA 5 connector	8	F 780 129 000	Lapping disks	25
F 707 050 000	F-SMA 5 connector	8	F 780 132 000	Resin applicator	25
F 708 005 000	F-SMA 6 connector	8 - 9	F 780 133 000	MFO-S index matching gel applicator	25
F 708 006 000	F-SMA 6 connector	8 - 9	F 780 134 000	MFO-S index matching gel	25
F 708 012 000	F-SMA 6 connector	8 - 9	F 780 136 000	Scoring blade	24
F 708 013 000	F-SMA 6 connector	8 - 9	F 780 214 000	MFO-S polishing gauge	25
F 708 016 000	F-SMA 6 connector	8 - 9	F 780 242 000	6 bags of 353ND epoxy resin	24
F 708 017 000	F-SMA 6 connector	8 - 9	F 780 243 000	5 syringes	24
F 708 018 000	F-SMA 6 connector	8 - 9	F 780 248 000	MFO-S microscope adapter	25
F 708 019 000	F-SMA 6 connector	8 - 9	F 780 324 000	F-SMA microscope adapter	25
F 708 020 000	F-SMA 6 connector	8 - 9	F 780 405 000	2 polymerizing units	25
F 708 021 000	F-SMA 6 connector	8 - 9	F 780 452 000	MFO-S complementary kit	24
F 708 022 000	F-SMA 6 connector	8 - 9	F 780 454 000	F-SMA complementary kit	24
F 708 023 000	F-SMA 6 connector	8 - 9	F 780 457 000	Microscope x100 body	25
F 708 024 000	F-SMA 6 connector	8 - 9	F 780 460 000	Basic kit 220 V	24
F 708 025 000	F-SMA 6 connector	8 - 9	F 780 461 000	Basic kit 110 V	24
F 708 026 000	F-SMA 6 connector	8 - 9	F 780 462 000	Basic kit without oven	24
F 708 400 000	E-SMA 5&6 rectangular receptacle	11	F 780 527 000	Cleaning paper	24
F 708 401 000	F-SMA 5&6 hexagonal receptacle	11	F 780 809 000	Solvent dispenser	24
F 708 402 000	F-SMA 5&6 hexagonal receptacle	12	F 780 811 000	Waste container	24
F 708 720 000	F-SMA 5&6 adapter	10	F 785 002 000	Dial indicator	24
F 708 721 000	F-SMA 5&6 adapter	10	F 793 410 200	Cable assembly 2 meters MFO-S	22
F 708 900 000	F-SMA adjustment plug	25	F 793 410 201	Cable assembly 3 meters MFO-S	22
F 708 901 000	F-SMA adjustment gauge	12	F 793 410 202	Cable assembly 5 meters MFO-S	22
F 712 120 000	MFO-S connector	16	F 793 410 203	Cable assembly 2 meters MFO-S	22
F 712 121 000	MFO-S connector	16	F 793 410 204	Cable assembly 3 meters MFO-S	22
F 712 122 000	MFO-S connector	16	F 793 410 205	Cable assembly 5 meters MFO-S	22
F 712 123 000	MFO-S connector	16	F 793 410 206	Cable assembly 2 meters MFO-S	22
F 712 124 000	MFO-S connector	16	F 793 410 207	Cable assembly 3 meters MFO-S	22
F 712 125 000	MFO-S connector	16	F 793 410 208	Cable assembly 5 meters MFO-S	22
F 712 126 000	MFO-S connector	16	F 793 460 200	Cable assembly 2 meters F-SMA 6	13
F 712 127 000	MFO-S connector	16	F 793 460 201	Cable assembly 3 meters F-SMA 6	13
F 712 128 000	MFO-S connector	16	F 793 460 202	Cable assembly 5 meters F-SMA 6	13
F 712 142 000	MFO-S connector	16	F 793 460 203	Cable assembly 2 meters F-SMA 6	13
F 712 143 000	MFO-S connector	16	F 793 460 204	Cable assembly 3 meters F-SMA 6	13
F 712 144 000	MFO-S connector	16	F 793 460 205	Cable assembly 5 meters F-SMA 6	13
F 712 145 000	MFO-S connector	16	F 793 460 206	Cable assembly 2 meters F-SMA 6	13
F 712 400 000	MFO-S receptacle	19	F 793 460 207	Cable assembly 3 meters F-SMA 6	13
F 712 402 000	MFO-S receptacle	18	F 793 460 208	Cable assembly 5 meters F-SMA 6	13
F 712 403 000	MFO-S receptacle	19	R 125 812 001	F-SMA 5&6 cap	12