

- **pre-radius ceramic optical ferrule** (20°) for multimode or singlemode fibre.
- **metal optical ferrule** for multimode fibre.
- **bayonet locking** system.
- connector with **ceramic or metal alignment sleeve**.
- **low insertion losses**.
- **universal termination** by gluing and polishing.
- according to **IEC 874-10**.

Multiple applications :

local networks, computers, datacom, instrumentation, industrial, etc

Its performance, ease of installation and its economy advantages have made the ST[®] the connector of choice for installers.

Radiall, with its considerable experience and strong presence in this market for several years, offers a varied and excellent performance range of plugs and adaptors for multimode or singlemode applications.

An extended coding system gives users "made to measure" stock control :

- a "**universal**" version, including all the accessories, permits the connection of tubes and cables from 0.9 to 3.5 mm.
- a "**simplified**" version, including all the accessories either for connection on tubes or on cables.
- a "**basic**" version, without accessories, allows the user to order crimping ferrules and rear boots separately with the opportunity to select different identification colors.

Most models are presented in **unit packs** or in **packs of 100**.



For sensitive and top of the range applications, RADIALL recommends using the **beST[®]** series : **an exclusive solution based on a patented floating ferrule system**, guaranteeing optical performance whatever type of stress is put on the cable
Consult the **beST[®]** catalogue.



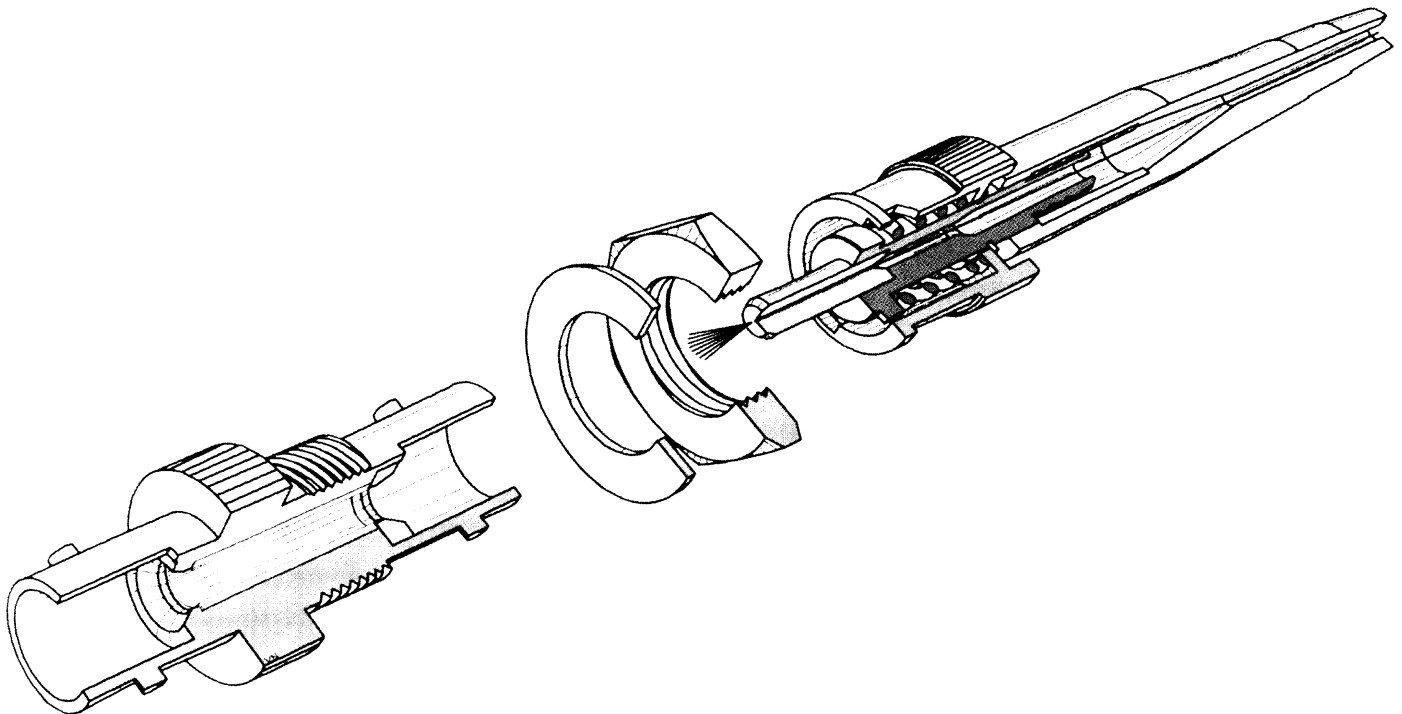
PERFORMANCES

	MULTIMODE 50/125 or 100/140 μ m fibre		SINGLEMODE 9/125 μ m fibre
	ceramic optical ferrule	metal optical ferrule	
Typical insertion loss * <i>according to IEC 874-1, 4-4-7, method 7</i>	0.15 dB (850 nm)	0.25 dB (850 nm)	0.30 dB (1300 nm)
Standard deviation	0.10 dB	0.14 dB	0.08 dB
Durability	0.10 dB	0.10 dB	0.10 dB
Return loss <i>according to IEC 874-1, 4-4-7, method 7</i>	> 30 dB	> 30 dB	> 30 dB (PC) > 40 dB (SPC)
Mechanical endurance	1000 cycles	500 cycles	1000 cycles
Tube retention		10 N	
Cable retention		100 N	
Vibrations		10/55 Hz – 10 g	
Operating temperature		25/70/4	

* measured with adaptor F 709 730 000.

MATERIALS

CONNECTORS		ADAPTORS	
body :	zamak	body :	zamak
bayonet coupling :	zamak	alignment sleeve :	F 709 730 000 ceramic zirconia F 709 722 000 phosphor bronze
optical ferrule :	ceramic zirconia or cooper/nickel		
crimp ferrule :	brass		





CONNECTORS WITH pre-radius 20° CERAMIC OPTICAL FERRULE (except F 709 090 000 for 100/140 µm fibre : flat ceramic)

For **0.9mm** coated fibre, or **1.1mm** max tube, or **2.7 to 3.5mm** cable.

Note : Please consult RADIALL for another sizes.

Type	Optical ferrule (microns)	Body + optical ferrule	Crimping ferrule for 2.7 to 3.5 mm	Small boot for 0.9 mm fibre and 1.1 mm tube	Large boot for 2.7 to 3.5 mm cable	Unit pack	Bulkpack 100
ST [®] I	multimode, 128	•	•	•	•	F 709 028 000	F 709 028 200
ST [®] I	multimode, 128	•	•			–	F 709 027 200
ST [®] I	multimode, 128	•				–	F 709 029 200
ST [®] II	multimode, 128	•	•	•	•	F 709 024 000	F 709 024 200
ST [®] II	multimode, 128	•		•		F 709 022 000	F 709 022 200
ST [®] II	multimode, 128	•	•		•	F 709 023 000	F 709 023 200
ST [®] II	multimode, 128	•	•			–	F 709 026 200
ST [®] II	multimode, 128	•				–	F 709 025 200
ST [®] II	multimode, 140	•	•	•	•	F 709 090 000	–
ST [®] II	monomode, 126	•	•	•	•	F 709 034 706	F 709 034 200

CONNECTORS WITH METAL OPTICAL FERRULE

For **0.9mm** coated fibre, or **1.1mm** max tube, or **2.7 to 3.5mm** cable.

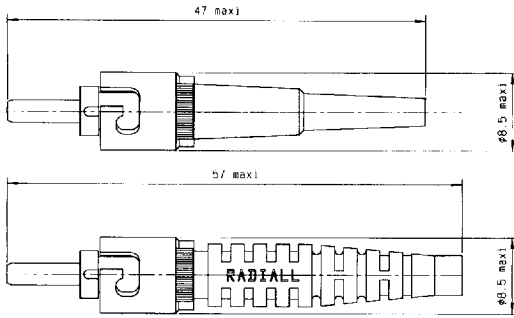
Note : Please consult RADIALL for another sizes.

Type	Optical ferrule (microns)	Body + optical ferrule	Crimping ferrule for 2.7 to 3.5 mm	Small boot for 0.9 mm fibre and 1.1 mm tube	Large boot for 2.7 to 3.5 mm cable	Unit pack	Bulkpack 100
ST [®] II	multimode, 232	•	•		•	F 709 110 000	–
ST [®] II	multimode, 432	•	•		•	F 709 111 000	–
ST [®] II	multimode, 128	•	•	•	•	F 709 130 000	F 709 130 200
ST [®] II	multimode, 128	•	•			F 709 131 000	F 709 131 200
ST [®] II	multimode, 128	•		•		F 709 132 000	F 709 132 200
ST [®] II	multimode, 128	•	•			–	F 709 134 200
ST [®] II	multimode, 128	•				–	F 709 133 200

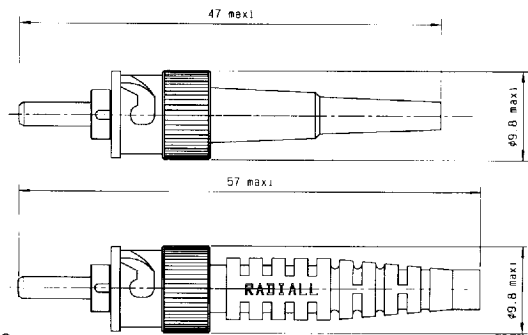
Note : For the "basic" version (body + optical ferrule), crimping ferrule (see "Accessories") and boots (see "Boots") can be ordered separately as optional.



CONNECTOR DIMENSIONS (in mm)



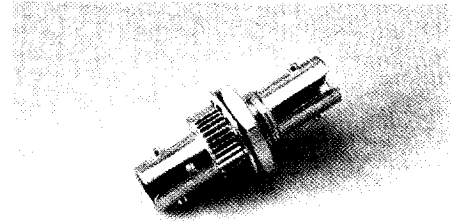
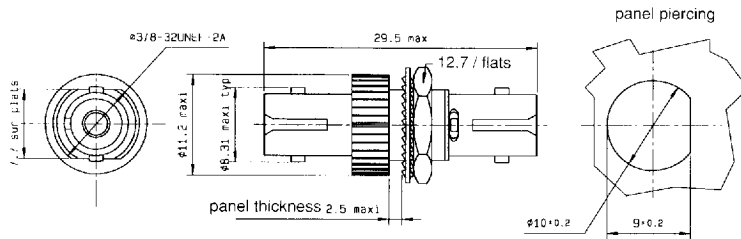
ST[®]I



ST[®]II

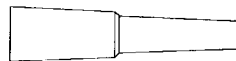
ADAPTORS

Type	Unit pack	Bulkpacks 100
Ceramic zirconia alignment sleeve	F 709 730 000	F 709 730 200
Phosphor bronze alignment sleeve	F 709 722 000	F 709 722 200



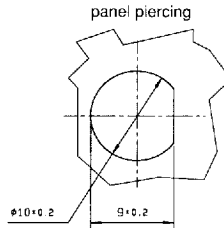
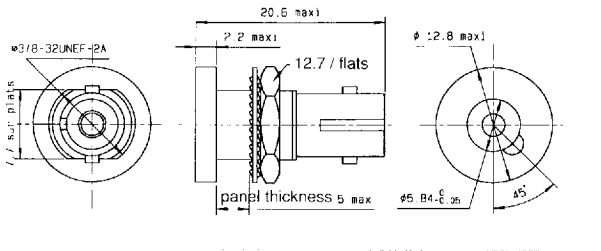
BOOTS

Colour	for 0.9 mm fibre and 1.1 mm tube	for 2.7 to 3.5 mm cable
Black	F 718 064 000	F 718 060 000
Red	—	F 718 061 000
Yellow	—	F 718 062 000
Blue	—	F 718 063 000

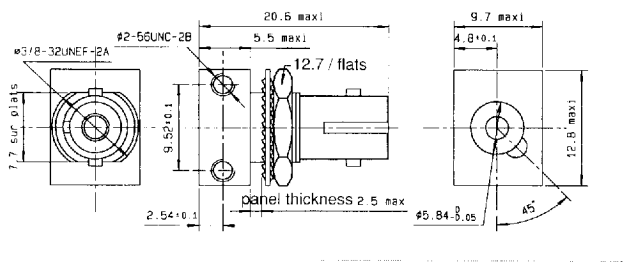


DEVICE HOUSING RECEPTACLES (TO18/TO46)

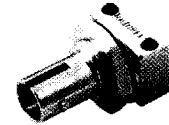
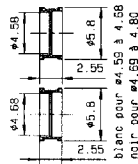
For bulkhead or PC board mounting : **F 709 400 000**



For bulkhead mounting : **F 709 401 000**



supplied with 2 centering rings

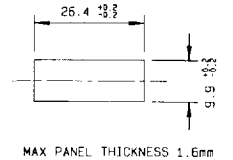
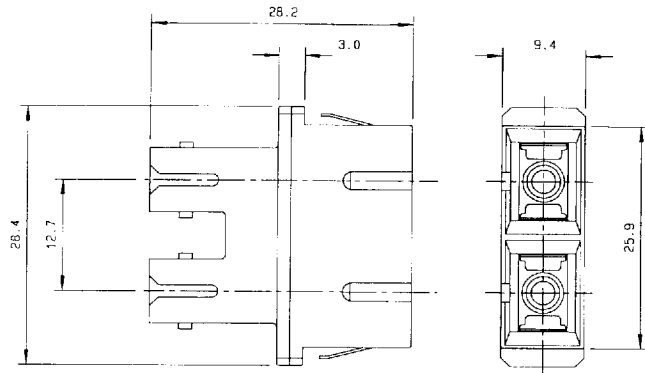


Note : Please consult RADIALL for connectorized active devices.

ST[®] to SC DUPLEX ADAPTOR

Phosphor bronze alignment sleeve

with snap mount : **F 719 012 000**, with flange mount : **F 719 013 000**



ACCESSORIES

Type	Part Numbers
Metal protective cap for connectors	F 709 750 000
Metal protective cap with chain for adaptors and receptacles	F 709 760 000
Bag of 20 safety caps for ST [®] II connectors	F 718 044 000
Bag of 100 crimping ferrules for 2.7 to 3.5 mm cable	F 718 069 000



TOOLING

BASIC KIT 220 V A version without curing oven is available F 780 462 000		F 780 460 000	COMPLEMENTARY KIT ceramic optical ferrule F 780 830 000	
Buffer stripper Outer jacket stripper Primary stripper Scoring blade ☞ Bag of 5 short syringes ☞ 6 bags of 353 ND Epoxy resin Crimp tool Kevlar cutter Lint free wipes Solvent dispenser Plastic box ☞ Cleaning paper Curing oven 220V AC or 24V DC	F 780 026 000 F 780 038 000 F 780 025 000 F 780 136 000 F 780 243 000 F 780 242 000 F 780 052 000 F 780 039 000 F 780 808 000 F 780 809 000 F 780 811 000 F 780 527 000 F 780 463 000	Elastic polishing jig Rubber polishing platform Ferrule insertion tool * 4 fibre shields * * (used only for beST [®] installation) ☞ Assortment of 10 polishing films (30/12/3/1/0.3 µm)	F 780 801 000 F 780 812 000 F 780 818 000 F 780 816 000 F 780 810 000	
		COMPLEMENTARY KIT metal optical ferrule F 780 229 000		
		Fixe polishing jig Glass polishing platform ☞ Bag of 5 long syringes ☞ Bag of 10 polishing disks 9 µm ☞ Bag of 10 polishing disks 1 µm Resin applicator	F 780 232 000 F 780 124 000 F 780 156 000 F 780 127 000 F 780 138 000 F 780 132 000	

☞ Consumables : see below for replacement.

CONSUMABLES

Products and contents	Qty of plugs terminated	Part Numbers	Ceramic optical ferrule		Metal optical ferrule
			multimode	singlemode	singlemode
Bag of 10 polishing films 30 µm	1000	F 780 823 000	•	•	
Bag of 10 polishing films 12 µm	300	F 780 824 000	•		
Bag of 10 polishing films 3 µm	300	F 780 825 000		•	
Bag of 10 polishing films 1 µm	100	F 780 826 000	•	•	
Bag of 10 polishing films 0,3 µm	100	F 780 827 000		•	
Bag of 10 polishing disks 9 µm	200	F 780 127 000			•
Bag of 10 polishing disks 1 µm	100	F 780 138 000			•
6 bags of 353 ND Epoxy resin	200	F 780 242 000	•	•	•
Bag of 5 short syringes	-	F 780 243 000	•	•	•
Bag of 5 long syringes	-	F 780 156 000			•
Cleaning paper	-	F 780 527 000	•	•	•

OPTIONAL

Microscope 100x with ST[®] adaptor
 ST[®] adaptor only

F 780 233 000
 F 780 235 000

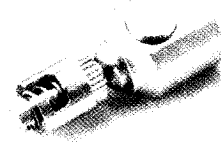
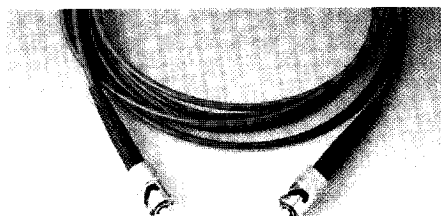
ADAPTOR PLUG

For test equipment.
 125 µm fibre : F 709 900 000
 140 µm fibre : F 709 901 000

CABLE ASSEMBLIES

Large range of single or duplex patchcords, for any fibre and cable diameters. Any length on request.

Please consult the general "Optical cable assemblies" catalogue.



ST[®] is a registered trade mark of AT&T