

**RUGGEDIZED HERMAPHRODITIC MULTIWAY CONNECTORS
AND CABLE ASSEMBLIES FOR MULTIMODE FIBER OPTIC LINKS**

FOTAC

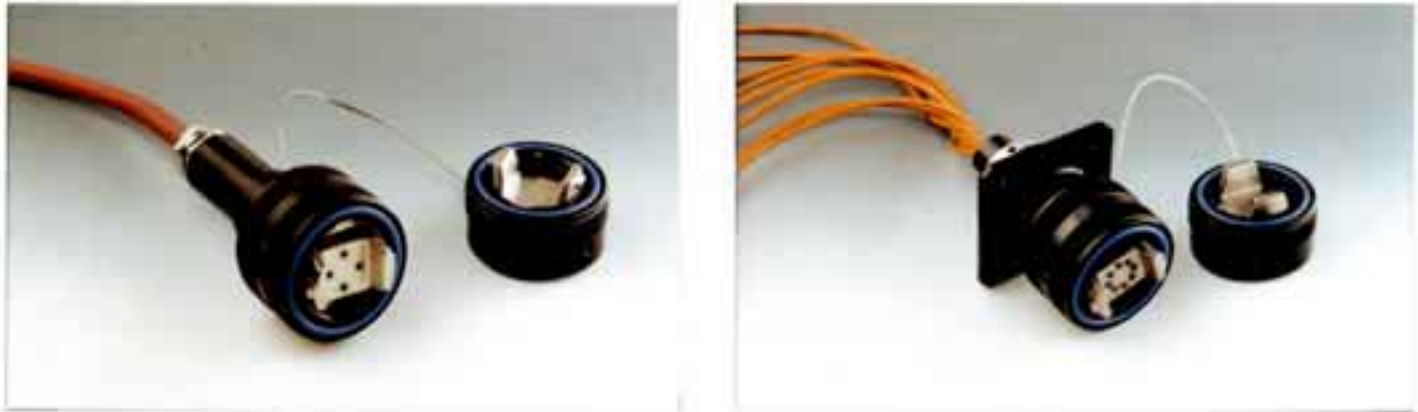


March 1995 edition

ISO 9001 APPROVED



HERMAPHRODITIC CONNECTION, 2 to 8 channels, plug/plug or plug receptacle type



- ▶ **Expanded beam** optical contacts, for multimode fiber silica/silica 125 and 140 μm , or HCS 200/230 type.
- ▶ Tough, **very resistant to shock and pressure**.
- ▶ **Watertight** plug.
- ▶ **Quarter turn** locking.
- ▶ **Blind** coupling mechanism (guide rods).
- ▶ Protective caps which can be coupled.
- ▶ Very **easy to clean**.

CABLES ACCEPTANCE plug \varnothing 5 to 12 mm* ; receptacle \varnothing 0.9 to 3 mm

* *The structure of these cables may mean that some types may need to be specially adapted. We advise that the mechanical characteristics be validated by us.*

APPLICATIONS

- Oil research,
- Geophysics,
- Railways,
- Field military links,
- Marine,

and all types of transmission through **multimode optical fiber** in harsh environments.

DELIVERY

OPTION 1

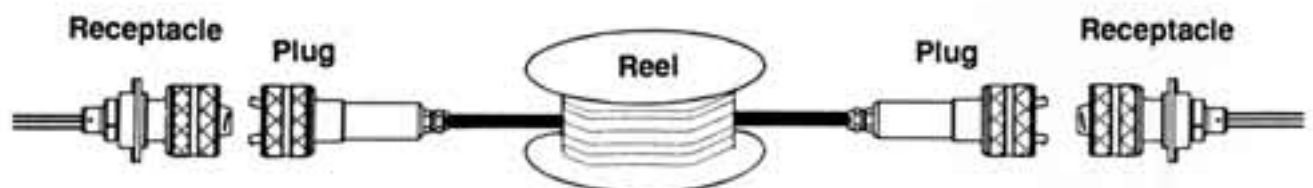
- **Plugs, receptacles and optical contacts** supplied unfitted, for cabling by the user. See "Product range" page D & E. Please consult RADIALL for the appropriate tooling kit.

OPTION 2

- **Plugs** : **Fully fitted cable assembly** (supplied on reel). See page F.
- **Receptacles** : Fitted with pigtail output or prefitted with standard connectors (ST, EC, etc.). See page F.

PERFORMANCES

	PLUG (cabled)	RECEPTACLE (cabled)
Insertion loss ($\lambda = 850 \text{ nm}$)	$\leq 3 \text{ dB}$	
Mating life	Cadmium plated version green : 1500 cycles Anodized version black : 500 cycles	
Locking couple	60 cm / daN	
Vibration	10-2000 Hz - 10g	
Shock	50g - 11 ms	
Cable retention	130 daN	/
Immersion	24 H under 1 metre water	/
Resistance to pressure	1000 daN	/
Environmental category	$-40^{\circ}\text{C} +85^{\circ}\text{C}$	
Temperature shock	5 cycles, -40°C à $+70^{\circ}\text{C}$	
Salt spray	Cadmium plated version green : 500 H Anodized version black : 96 H	



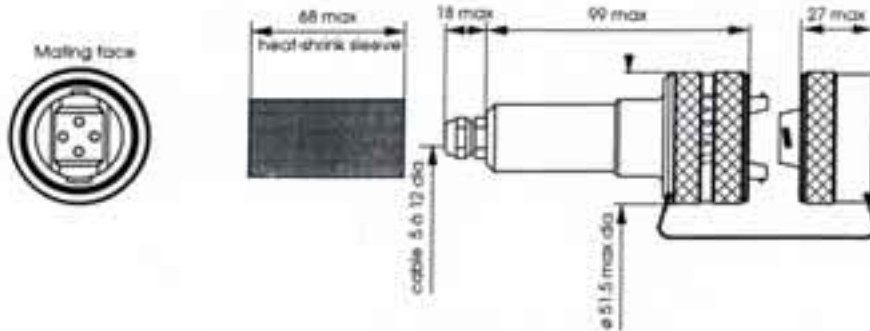
OPTION 1

PRODUCT RANGE, 4 CHANNELS VERSION

Plugs, receptacles and optical contacts supplied unfitted, for cabling by the user

Anodized version black, plastic cap Anodized version black, metal cap Cadmium version green, metal cap

4 CHANNELS PLUG

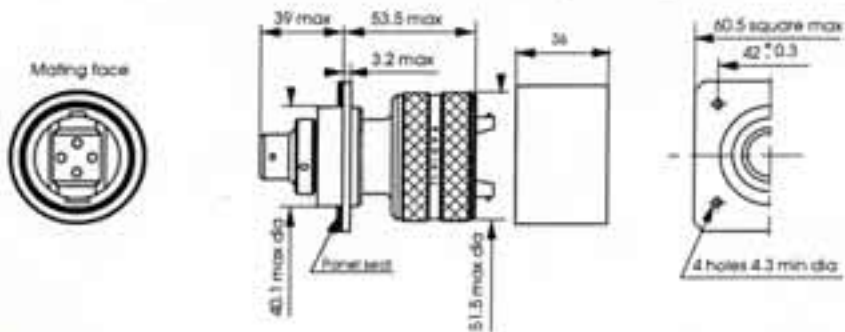


F 740 011 000

F 740 010 000

F 740 008 000

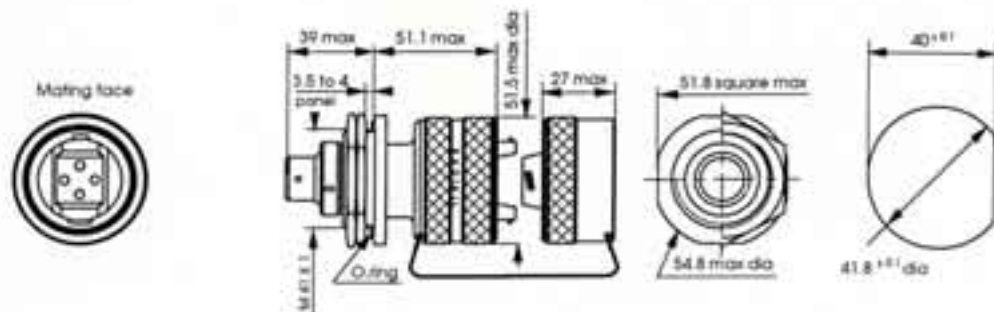
4 CHANNELS RECEPTACLE, square flange



F 740 204 000

F 740 202 000

4 CHANNELS RECEPTACLE, feedthrough



F 740 400 000

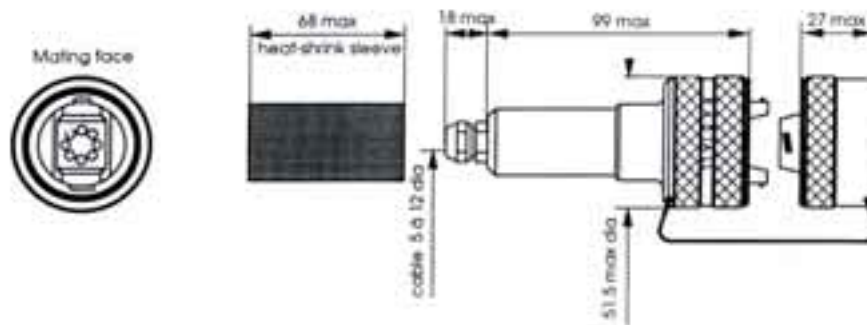
OPTION 1 (Cont'd)

PRODUCT RANGE, 8 CHANNELS VERSION

Plugs, receptacles and optical contacts supplied unfitted, for cabling by the user

Anodized version black, plastic cap	Anodized version black, metal cap	Cadmium version green, metal cap
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8 CHANNELS PLUG

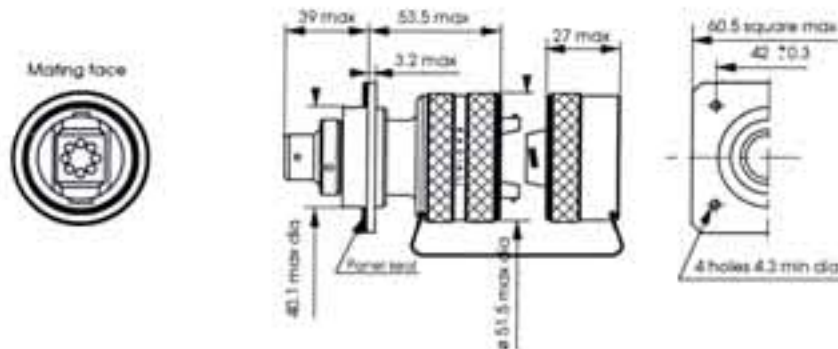


F 740 012 000

F 740 003 000

F 740 009 000

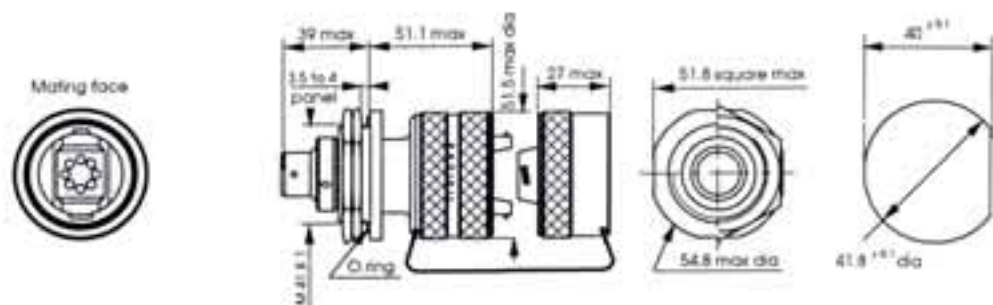
8 CHANNELS RECEPTACLE, square flange



F 740 203 000

F 740 201 000

8 CHANNELS RECEPTACLE, feedthrough



F 740 401 000

OPTICAL CONTACTS	125 μ m	140 μ m	230 μ m
	F 740 005 000	F 740 004 000	F 740 006 000

4 and 8 channels versions can be used as sub-systems.
In this case, use channel obturators F 740 902 000

OPTION 2

With the aid of the information below, the user can specify his own requirements and ask us for an estimate.

Cable assembly fitted



End :
 1 - 1 end only fitted
 2 - both ends fitted
 (Other : consult us)

Number of channels :
 2-3-4-5-6-7-8

"Extra-light" reel option :
 DE - Unwinder
 DF - Unwinder + Flight case

Length :
 (in meters)

Multimode fiber :
 1 : 50/125
 2 : 62,5/125
 3 : 100/140
 4 : 200/230 (HCS type)

Cable :
 00 Outside supplier (cable spec. to be validated by RADIALL)
 07 Supplied by RADIALL Ø 7 mm*
 11 Supplied by RADIALL Ø 11 mm*
 * PIRELLI cable. Supplied on reel

Protection :
 A - Black anodized + metal cap
 B - Green cadmium + metal cap
 (plastic cap : consult RADIALL)



Pigtailed receptacle



Type :
 1 - feedthrough
 2 - square flange

Number of channels :
 2-3-4-5-6-7-8

Protection :
 A - Black anodized + metal cap
 B - Green cadmium + metal cap
 (plastic cap : consult RADIALL)

Multimode fiber :
 1 : 50/125 - 2 : 62,5/125 - 3 : 100/140 - 4 : 200/230 (HCS type)

Length :
 (in centimeters)

Optical pigtail end :
 xx Free
 ST ST® connector ceramic ferrule
 EC
 Other : consult RADIALL

Fiber coating :
 09 - 0.9 mm
 03 - 3 mm
 Other : consult RADIALL

Example of applications :



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REGISTERED TRADE MARK

This information is intended as a guide only.
To ensure a continuing policy of product improvement, Radiall reserves the right to modify
its specifications without prior notification.