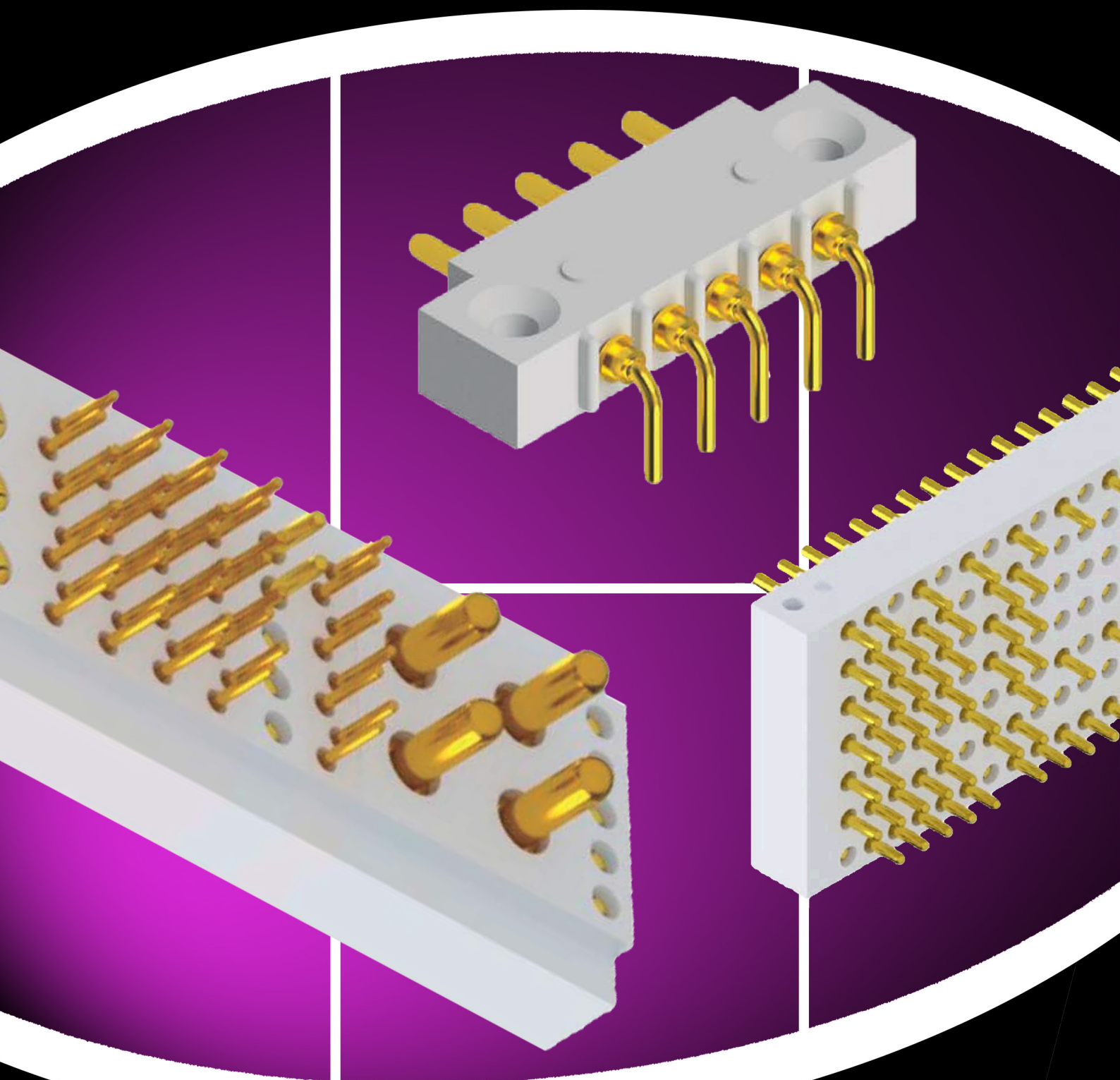


# **CEEP** **ALFA<sup>1</sup>R CONNECTORS**

**Multi Contact  
Modules**



## Part Number Reference:

**SMP**       -  

### Modification reference

Number or Letter (for specials)

### Connector Gender (Page 7)

Male	Number of contacts + M
Female	Number of contacts + F
Order according to distribution	

### Terminal Pin (Page 6)

TF	Solder
CR	Crimp
CI	PCB
LCI	90° PCB

### Number of Contacts (Page 5)

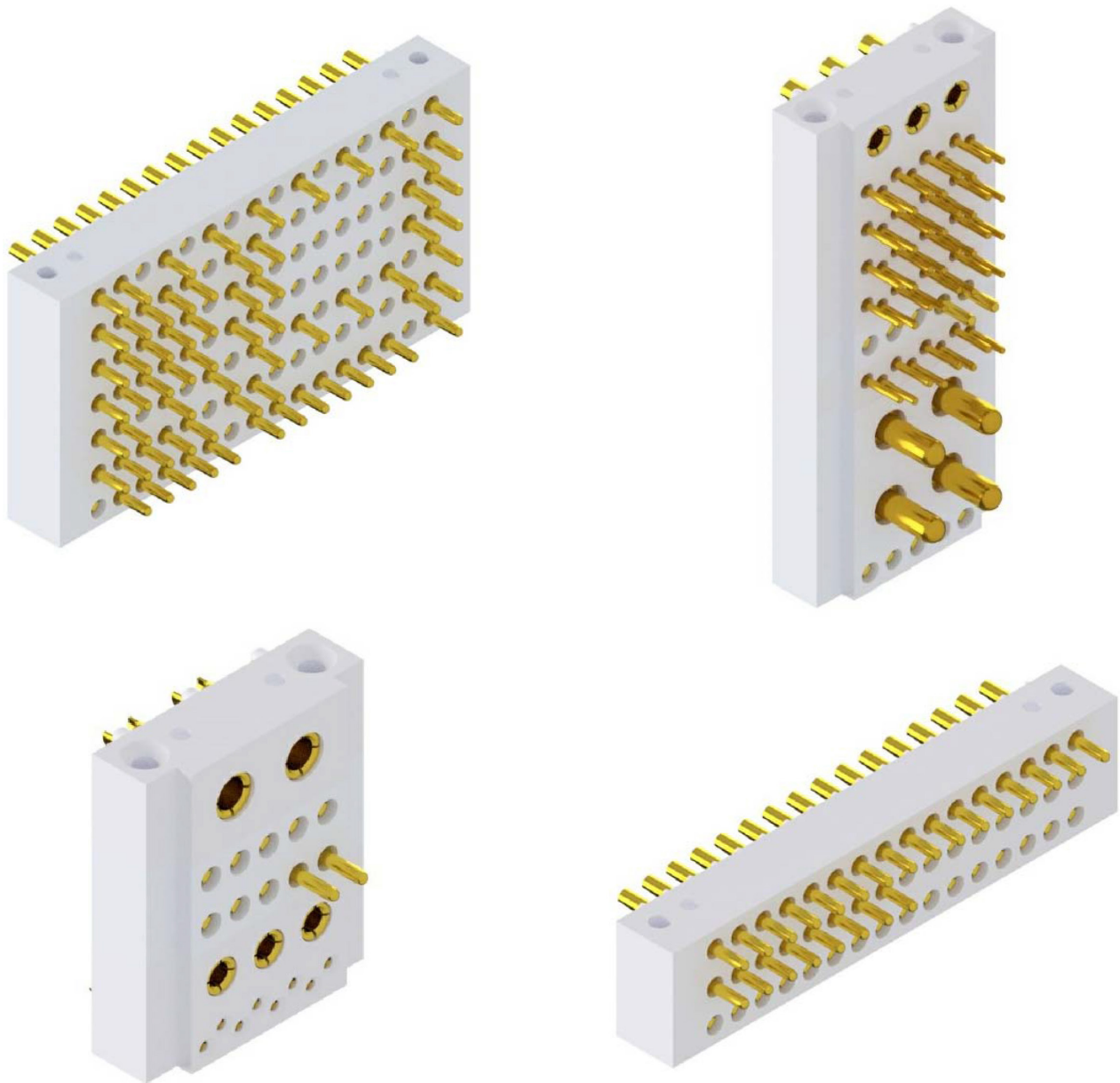
No.	Section	Pin layout
2	5.3 mm <sup>2</sup>	Straight
2X	Coaxial	Straight
3	2.1 mm <sup>2</sup>	Straight
5	0.9 mm <sup>2</sup>	Straight
8Z	0.6 mm <sup>2</sup>	Staggered
10	0.9 mm <sup>2</sup>	Straight
16	0.9 mm <sup>2</sup>	Straight

## SMP Product Description:

These connectors are classified in different ways, according to the types of Contacts:

- Electrical: They can be male, female, or hybrid contacts in a single monobloc. The contact section is defined by the number of pins in each monobloc. (Available in 2, 3, 5, 8, 10, and 16 contacts).
- Coaxial: Supplied in blocks of two connectors, which in turn can be male or female, and 50 or 75 Ohms of impedance individually.
- Fibre Optics: Supplied in blocks of 2, 3, 5, 10, or 16 connectors.
- Already compressed or empty: Presented in blocks of two connectors, which can be male, female, or hybrid (for 2Ø4 tube).

The 2, 3, 5, and 8 contact versions are applicable with one another. in contrast, those of 10 and 16 can only be applied with those that have the same number of contacts.

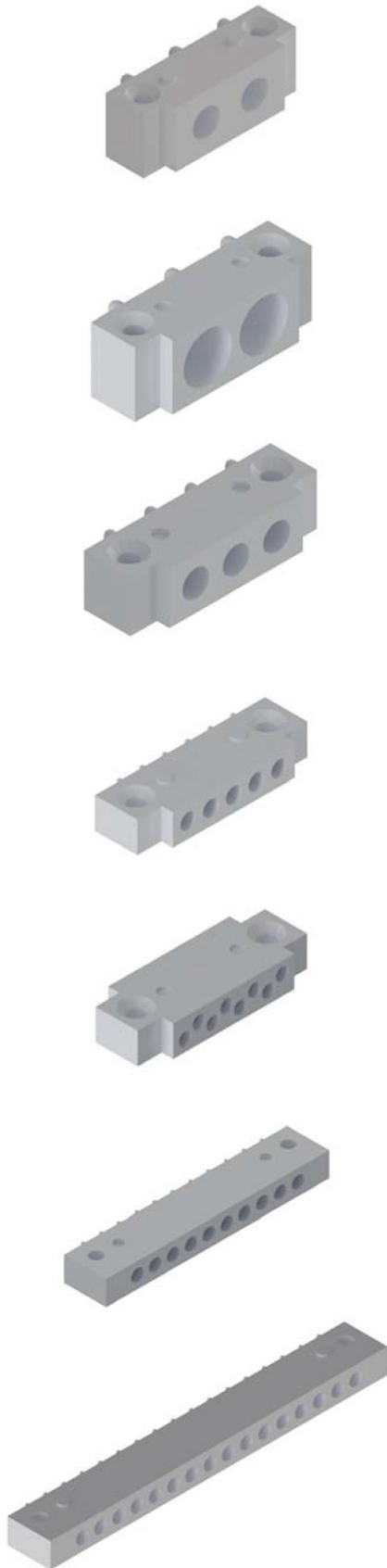


## Technical Data:

Electrical Technical Data						
Number of Contacts	2	3	5	8	10	16
Wire section (mm²)	3.5	2.5	1.5	1	1.5	1.5
Cable section (mm²)	5.3	2.1	0.9	0.6	0.9	0.9
Average extraction force per contact	<6N	<4N	<2N			
Insulator resistance at 20°C and 80% realitive humidity	> 10³ MΩ					
Contact resistance (male and female mated)	< 5 MΩ					
Test voltage at sea level for melamine (thermostable) (V.eff.)	2500V	2000V	1500V			
Test voltage at sea level for hermostable (V.eff.)	-		1500V		-	
Working voltage at sea level for melamine (thermostable) (V.eff.)	750V	500V	250V			
Working voltage at sea level for thermostable (V.eff.)	-		250V		-	
Working temperature for melamine (thermostable)	-40°C + 120°C					
Working temperature for thermoplastic (UL 94:CO)	-55°C + 90°C					
Nominal current per contact (A)	25A	15A	10A	7.5A	10A	

Coaxial Technical Data		
Number of contacts	2	
Characteristic impedance	50 Ω	75 Ω
Frequency range	0.2GHz	0.1GHz
ROE	≤ 1.23 typ	
Isolation resistance	≥ 10 <sup>4</sup> mΩ	
Central contact resistance	≤ 10 mΩ	
External contact resistance	≤ 3 mΩ	
Test voltage	750V rms	
Service voltage	350V rms	350V rms
Connection operations	> 800	
Temperature range	-55°C + 75°C	

## Number of Contacts:



SMP02			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	750V	-40°C + 120°C	Ø3.5

SMP2X			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	350V	-40°C + 120°C	Din 41626 (1.0)

SMP03			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	500V	-40°C + 120°C	Ø2.5

SMP05			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	250V	-40°C + 120°C	Ø1.5

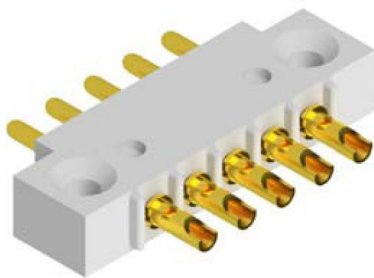
SMP08Z			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	250V	-55°C + 125°C	Ø1

SMP10			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	250V	-40°C + 120°C	Ø1.5

SMP16			
Insulator	Nominal Tension	Service Temperature	Pin
Thermostable	250V	-40°C + 120°C	Ø1.5

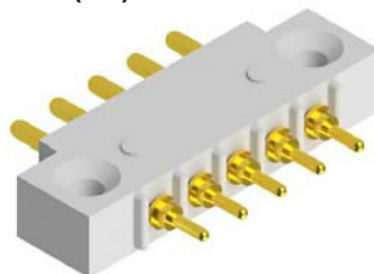
## Terminal Pin:

### Solder (TF)



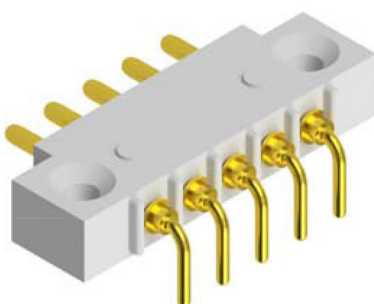
SMP__TF__-__							
Cable Section (mm <sup>2</sup> )							
Contact	2	2X	3	5	8Z	10	16
mm <sup>2</sup>	5.3	coaxial	2.1	0.9	0.6	0.9	0.9

### PCB (TF)



SMP__CL__-__							
Cable Section (mm <sup>2</sup> )							
Contact	2	2X	3	5	8Z	10	16
mm <sup>2</sup>	--	--	--	●	--	●	●

### 90° PCB (LCI)

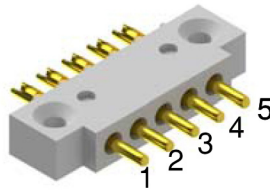


SMP__LCI__-__							
Cable Section (mm <sup>2</sup> )							
Contact	2	2X	3	5	8Z	10	16
mm <sup>2</sup>	--	--	--	●	--	●	●

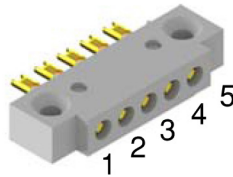


## Contact Gender:

SMP\_\_ \_\_5M - \_



SMP\_\_ \_\_5F - \_



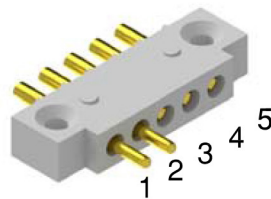
If modules contain the same style of contact, the total number will be defined followed by M or F (male or female).

## Hybrid Module

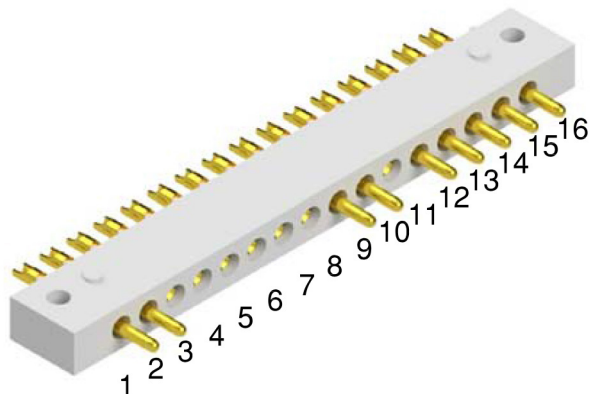
When there is a combination of male and female contacts (hybrid), it is defined by the number of contacts of the same gender followed by M or F, as appropriate, and so on for each sequence of contacts of the same gender, always starting with contact #1.

Below are two examples.

SMP\_\_ \_\_2M3F - \_



SMP\_\_ \_\_2M6F2M1F5M - \_





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