

Combination Sub-D:

Power, Coaxial and Standard Pin Feedthroughs

Combination Feedthroughs offer High Power Pins or Coaxial Pins (see page 1.24) in the shell size of Sub-D. Also combinations with standard pins are available. The Power Pins are ideal for heater applications.



General Specifications COMBINATION POWER SUB-D

Compliance	DIN 41652, MIL-C-24308
Power Pin-ø	3,6 mm
Standard Pin-ø	1,0 mm
Pin material	Gold plated NiFe
Seal	Glass Ceramic
Flange	Stainless Steel
Test Voltage	500V DC
Max. Current	Power Pin: 20A continuous
Max Current	Standard Pin: 3A
Temp.	-200°C to 230°C
Leak rate	<5x10 ⁻¹⁰ mbar-l/s He

Sub-D Feedthroughs on CF Flanges, POWER and MIXED POWER

SIZE	NO. OF PINS	PART NUMBER
40CF	2P+5S	210-X15-2P5-C40
40CF	3P	210-X15-3P-C40
63CF	5P	210-X15-5P-C63
63CF	2x 2P+5S	210-X15-2P5-C63-2
63CF	2x 3P (6P)	210-X15-3P-C63-2
63CF	2x 5P (10P)	210-X15-5P-C63-2

P: Power pin, S: Standard pin

Sub-D Feedthroughs on KF and ISO-K Flanges, POWER and MIXED POWER

SIZE	NO. OF PINS	PART NUMBER
40KF	2P+5S	210-X15-2P5-K40
40KF	3P	210-X15-3P-K40
63ISO-K	5P	210-X15-5P-ISO63
63ISO-K	2x 2P+5S	210-X15-2P5-ISO63-2
63ISO-K	2x 3P (6P)	210-X15-3P-ISO63-2
63ISO-K	2x 5P (10P)	210-X15-5P-ISO63-2

C: Coaxial pin, S: Standard pin



Combination Sub-D:

Connectors and crimp pins

UHV connectors made out of PEEK as well as HV connectors are offered for combination Sub-D feedthroughs.

High power and coaxial types use the same connector sizes.



General Specifications Power Pins

Power Pin-ø	3,6 mm
Pin material	Gold plated
Max. Current	20A
Max. cable ø	2.0mm
Temp.	200°C to 230°C
Recommended cables:	
	311-KAPM-200 (flexible)
	311-KAP-180 (massive Cu)



Power Pins

Left: Male, Right: Female

The female versions fit to the F/T.

The Power connectors use the same pins on air and vacuum side.

The air and vacuum side connectors accept power contacts as well as co-axial ones. Please order the desired pins separately and insert them into the connector.

The Standard 1mm pins are included with the connectors.

HIGH POWER Vacuum side Connectors

TYPE	NO. OF PINS	PART NUMBER
HV*	2P/C +5	211-FX15-2X5-HV
HV	3P/C	211-FX15-3X-HV
HV	5P/C	211-FX25-5X-HV
UHV*	2P/C +5	211-FX15-2X5-PK
UHV	3P/C	211-FX15-3X-PK
UHV	5P/C	211-FX25-5X-PK
HV Male	2P/C +5	211-MX15-2X5-HV
HV Male	3P/C	211-MX15-3X-HV
HV Male	5P/C	211-MX25-5X-HV
UHV Male	2P/C +5	211-MX15-2X5-PK
UHV Male	3P/C	211-MX15-3X-PK
UHV Male	5P/C	211-MX25-5X-PK

*) Vacuum connectors include 5 off standard crimp pins

Please order the required power or coaxial pins separately

HIGH POWER Air side Connectors

TYPE	NO. OF PINS	PART NUMBER
AIR	2P/C +5S	211-FX15-2x5-AIR
AIR	2P/C	211-FX15-3X-AIR
AIR	5P/C	211-FX25-5X-AIR
AIR Male	2P/C +5	211-MX15-2X5-AIR
AIR Male	3P/C	211-FX15-3X-AIR
AIR Male	5P/C	211-FX25-5X-AIR

*) Vacuum connectors include 5 off crimp pins

P: Power pins, C: Coaxial pins

HIGH POWER Pins (female and Male)

TYPE	NO. OF PINS	PART NUMBER
Power Female	1 off	212-POWER-F
Power Male	1 off	212-POWER-M