

UHV Plugs and Sockets in PEEK

Allectra offers Female Connectors (Sockets) which fit to Feedthroughs as well as Male Connectors (Plugs) for in-vacuum coupling.

On this page, the PEEK connectors for use up to 230°C are listed.

Ceramic connectors see right hand page.

Please order Pins separately, see page 1.16 ff. for range. HV versions and air side connectors are listed on page 1.10



Specification PEEK Sub-D Connectors

Type	Sub-D Connectors for in-vacuum use
Vacuum	High Vacuum(HV) and UHV
Type	Female- fits Feedthroughs Male Plugs
Body material	unfilled (pure) PEEK
Locking screws	included for Vac side (vented)
(-S type:	no Vac side locking screws)
Temp. range	-50°C to 230°C
Use Pins female	212-PINF, -PINF-B, -PINF-S, -PINF-HC, or thermocouple pins
Use Pins male	212-PINM, -PINM-S, -PINF-HC or thermocouple pins

UHV PEEK Sockets Female PEEK Sockets to fit Feedthroughs

VACUUM	No. OF POLES	PART NUMBER
HV/UHV	9	211-FS09-PK
HV/UHV	15	211-FS15-PK
HV/UHV	25	211-FS25-PK
HV/UHV	25	211-FS25-PK-S*
HV/UHV	37	211-FS37-PK
HV/UHV	50	211-FS50-PK

* for use with 210-D25-CF40 (no housing available)

UHV PEEK Plugs Male PEEK Plugs to fit Female Sockets

VACUUM	No. OF POLES	PART NUMBER
HV/UHV	9	211-MS09-PK
HV/UHV	15	211-MS15-PK
HV/UHV	25	211-MS25-PK
HV/UHV	37	211-MS37-PK
HV/UHV	50	211-MS50-PK



Female Sockets include vented 4-40 UNC screws to fix to the F/T. The Male versions are supplied with long M2.5 screws to connect to a Female Socket.

The housings allow easy handling and provide shielding. They are made out of Aluminium and include a cable clamp for strain relief. Braid can be used to get a fully shielded cable connection (see Sec. 6). They fit to Male and Female Connectors.

Housings with Strain Relief, Al for PEEK and Ceramic Connectors, Male and Female

VACUUM	No. OF POLES	PART NUMBER
HV/UHV	9	211-HSG-D09-UHV
HV/UHV	15	211-HSG-D15-UHV
HV/UHV	25	211-HSG-D25-UHV
HV/UHV	37	211-HSG-D37-UHV
HV/UHV	50	211-HSG-D50-UHV



PEEK connector with housing

- Open (top and bottom shell visible)
- Assembled

UHV Plugs and Sockets in Ceramic

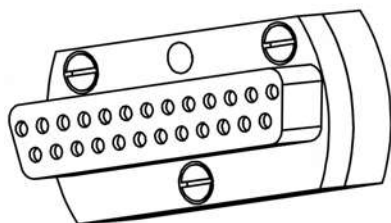
For lowest possible outgassing, connectors made out of ceramic are the best choice. Ceramic does not absorb any water in the volume; in addition, they can be used from cryo temperatures up to 300°C

Please order Pins separately, see page 1.16 ff. for range or add "-PACK" at the end of the part code to get the standard pins with the connector (see below)



Specification Ceramic UHV Sub-D Connectors

Type	Sub-D Connectors for in-vacuum use
Vacuum	UHV 10 ⁻¹⁰ mbar and below
Type	Female- fits Feedthroughs Male Plugs
Body material	Ceramic / glass ceramic
Locking screws	included for Vac side (vented)
(-S type:	no Vac side locking screws)
Temp. range	4K to 300°C
Use Pins female	212-PINF, -PINF-B, -PINF-S, -PINF-HC, or thermocouple pins
Use Pins male	212-PINM, -PINM-S, -PINF-HC or thermocouple pins



Special 25-pin connector 211-FS25-UHV-S for 25 pin feedthrough on 40CF flange

UHV Ceramic Sockets Female Ceramic Sockets to fit Feedthroughs

VACUUM	No. OF POLES	PART NUMBER
UHV	9	211-FS09-UHV
UHV	15	211-FS15-UHV
UHV	25	211-FS25-UHV
UHV	25	211-FS25-UHV-S*
UHV	37	211-FS37-UHV
UHV	50	211-FS50-UHV

* for use with 210-D25-CF40 (no housing available)

UHV Ceramic Plugs Male Ceramic Plugs to fit Sockets

VACUUM	No. OF POLES	PART NUMBER
UHV	9	211-MS09-UHV
UHV	15	211-MS15-UHV
UHV	25	211-MS25-UHV
UHV	37	211-MS37-UHV
UHV	50	211-MS50-UHV

WHY ARE THE CRIMP PINS NOT INCLUDED?

Allectra offers a selection of pins for various cable diameters, the best fitting size should be chosen according the desired cable.

Nevertheless, you can add: "-PACK" at the end of the part code to get the required number of our most common pins Type 212-PINF (female) or 212-PIN-M (male) with the connector!

Example: 211-FS15-PK-PACK: Peek connector including 15 off female pins.

The price is the sum of the connector plus the pin pack.
See Page 1.18 for specification of the crimp pins