

Sub-D Connectors UHV PEEK Versions

As an alternative to the Glass-Ceramic versions, Allectra offers Sub-D connectors made from PEEK.

PEEK can be used for most of the applications in vacuum.

- High temperature range
- Low water absorption in air
- Very low risk of braking the material
- Significant price reduction compared to Glass ceramic

Technical Data of PEEK compared to Glass ceramic:

	PEEK	Glass ceramic
Colour	grey-yellow	white
Specific weight	1,32 g/cm ³	2.66 g/cm ³
Max. Temperature (short)	300 °C	1000 °C
Max. continuous Temperature	250 °C	700 °C
Min. Temperature	-65° C	4 K
Thermal conductivity	0.25 W/m K	1.7 W/m K
Expansion coefficient (20 - 400°C)	47 · 10 ⁻⁶ K ⁻¹	10·10 ⁻⁶ K ⁻¹
El. Resistivity	190 kV/mm AC	12 kV/mm AC
Specific Resistivity	10 ¹² Ohm cm	4 · 10 ¹² Ohm cm
Dielectric constant	3,2	14
Mechanical stability	97 MPa	450 MPa
Water absorption in air	< 0.1%	0 (on surface only)
Vacuum range	UHV <10 ⁻¹⁰ mbar*)	UHV <10 ⁻¹⁰ mbar

*) UHV requires a bake-out to remove the absorbed water.
all Data for 20°C, if nothing else is specified



Product reference:

Pins	Plugs female (fitting to F/T)	Qty	Article Nr
9	Sub-D Plug, FEMALE, PEEK Version for 9 Pins	1	211-FS09-PK
15	Sub-D Plug, FEMALE, PEEK Version for 15 Pins	1	211-FS15-PK
25	Sub-D Plug, FEMALE, PEEK Version for 25 Pins	1	211-FS25-PK
37	Sub-D Plug, FEMALE, PEEK Version for 37 Pins	1	211-FS37-PK
50	Sub-D Plug, FEMALE, PEEK Version for 50 Pins	1	211-FS50-PK

Pins	Plugs male	Qty	Article Nr
9	Sub-D Plug , MALE PEEK Version, for 9 Pins	1	211-MS09-PK
15	Sub-D Plug , MALE PEEK Version, for 15 Pins	1	211-MS15-PK
25	Sub-D Plug , MALE PEEK Version, for 25 Pins	1	211-MS25-PK
37	Sub-D Plug , MALE PEEK Version, for 37 Pins	1	211-MS37-PK
50	Sub-D Plug , MALE PEEK Version, for 50 Pins	1	211-MS50-PK

Pins (Standard High Quality pins)	Qty	Article Nr
Crimp Pins for Sub-D Plugs , female, for UHV, PEEK and HV, 10 off	10	212-PINF-10
Crimp Pins for Sub-D Plugs , female, for UHV, PEEK and HV, 25 off	25	212-PINF-25
Crimp Pins for Sub-D Plugs , MALE, for UHV, PEEK and HV, 10 off	10	212-PINM-10
Crimp Pins for Sub-D Plugs , MALE, for UHV, PEEK and HV, 25 off	25	212-PINM-25

Other pins are available: Budget type, SMALL for thin wires, Thermocouple pins