

Sub-D Connectors UHV PEEK Versions

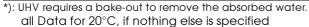
As an alternative to the Glass-Ceramic versions, Allectra offers Sub-D connectors made from PEEK.

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 |
| EI. 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 |



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 avaliable: Budget type, SMALL for thin wires, Thermocouple pins

File: 211-Sub-D-Conn-PEEK Last revised 2017-12-08

All data given in this sheet are carefully checked but subject to change at any time.

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