GRT High-Temperature Connectors, up to +500 °C

–55 to +500 °C · stainless steel · hermetic receptacles



Temperature	–55 to +500 °C
Contacts	2 to 5
Current rating	7.5–13 A
Shell	Stainless steel
Sealing	Hermetic receptacles

Key features

- Rated to +500 °C (model dependent: 500, 350 or 300 °C)
- Stainless-steel shells with threaded coupling
- Glass-insulated receptacles; hermetic versions leak ≤ 4.55 × 10^{-3} cm^3/s at 0.1 MPa
- Many interfaces and mounting dimensions
- Custom-designed to your requirements

Specifications

Electrical

Parameter	Value	Condition
Dielectric withstanding voltage	1500 V	Room temperature
Insulation resistance	≥ 1000 MΩ / ≥ 20 MΩ	Room temperature / high temperature and humidity

Mechanical and environmental

Parameter	Value	Condition
Operating temperature	–55 to +500 °C	Model dependent — see models table
Hermeticity	≤ 4.55 × 10^{-3} cm^3/s	0.1 MPa, hermetic receptacles
Durability	500 mating cycles	
Coupling thread	e.g. M20 × 1.5	GRT16

Models

Plug / hermetic receptacle	Temperature	Contacts	Current	Contact resistance
GRT10-5KT / GRT10-5JZ	–55 to +500 °C	5 × Ø 1.0	7.5 A	0.125 Ω
GRT11-4KTR2 / GRT11-4JZR2	–55 to +500 °C	4 × Ø 1.6	13 A	0.075 Ω
GRT12-4KT / GRT12-4JZ	–55 to +500 °C	4 × Ø 1.6	13 A	0.075 Ω

Plug / hermetic receptacle	Temperature	Contacts	Current	Contact resistance
GRT14-05KT / GRT14-05JZ	−55 to +500 °C	2 × Ø 1.0	7.5 A	0.125 Ω
GRT16-2KT / GRT16-2JZ	−55 to +350 °C	2 × Ø 1.5	10 A	0.017 Ω
GRT12-2KT / GRT12-2JZ	−55 to +300 °C	2 × Ø 1.0	7.5 A	0.125 Ω

Contact resistance values as published for high-temperature contacts. Other layouts are designed to order.

How to order

GRT [shell] - [contacts] [contact] [type]

Example: **GRT16-2KT** — Shell 16, 2 contacts, socket contacts, plug

Code segment	Options
Shell	**10 11 12 14 16** Shell size
Contacts	**2 – 5** Number of contacts
Contact	**K / J** Socket / pin
Type	**T / Z** Plug / receptacle

GRT14 key positions N, A–D.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=GRT