PRG High-Temperature Circular Connectors, up to +400 °C

Up to +400 °C · 2 to 47 contacts · shielded or unshielded



Temperature	–60 to +400 °C
Contacts	2 to 47
Current rating	7–10 A (25 / 50 A version)
Shell	Threaded, shells 20–60

Key features

- Rated up to +400 °C
- Threaded coupling
- Six standard layouts: 2, 4, 7, 16, 26 and 47 contacts
- Straight or 90° backshells, shielded or unshielded
- Higher-current version: Ø 2.5 mm (25 A) and Ø 3.5 mm (50 A) contacts, –55 to +350 °C

Specifications

Electrical

Parameter	Value	Condition
Working voltage	350 V	
Contact resistance	1.0 mΩ	
Insulation resistance	≥ 1000 MΩ	Normal conditions
Dielectric withstanding voltage	≥ 1500 V	Higher-current version, room temperature

Mechanical and environmental

Parameter	Value	Condition
Operating temperature	–60 to +400 °C	
Operating temperature	–55 to +350 °C	Higher-current version
Vibration	1–2000 Hz, 10 g	
Shock	300 g single; 150 g repeated	
Durability	250 mating cycles, ≥ 100 h at temperature	500 cycles for the higher-current version

Contact sizes and current ratings

Contact size	Engaging diameter	Contact resistance	Current rating
Ø 2.5 mm	2.5 mm	≤ 17 mΩ	25 A
Ø 3.5 mm	3.5 mm	≤ 5 mΩ	50 A

Contact layouts

Shell–contacts–layout	Contacts	Current per contact	Total current	Mating force
20-2-6	2	10 A	20 A	4.0 kg
28-4-8	4	10 A	40 A	3.5 kg
28-7-9	7	10 A	70 A	14.5 kg
40-16-4	16	10 A	160 A	36.0 kg
48-26-3	26	9 A	234 A	55.0 kg
60-47-3	47	7 A	329 A	100.0 kg

How to order

PRG [shell] [contact] [contacts] [A] [backshell]

Example: **PRG20J2AQ** — Shell 20, pin contacts, 2 contacts, receptacle, straight unshielded backshell

Code segment	Options
Shell	**20 28 40 48 60** Shell size
Contact	**J / K** Pin / socket
Contacts	**2 4 7 16 26 47** Number of contacts
Type	**A** Receptacle
Type	**(none)** Plug
Backshell	**P / Q** Straight shielded / unshielded
Backshell	**R / S** 90° shielded / unshielded

Contact diameter in the higher-current table is stated for that version; send us your current requirement.

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