J599S Subminiature Circular Connectors (38999 Series III Style)

Shells 3, 5, 7 · threaded self-locking · 22D and 26 contacts



Coupling	Triple-start thread (shells 5, 7)
Shell sizes	3, 5, 7
Insert arrangements	6
Contact sizes	22D, 26 (2–5 A)
Temperature	–65 to +200 °C
Mating cycles	500

Key features

- Subminiature, high-density design: light and strong
- Three shell sizes: 3, 5 and 7
- Triple-start threaded coupling with self-locking (shells 5 and 7)
- Removable crimp contacts; scoop-proof and keyed
- Fluid-resistant version (V) for fuels, lubricants and coolants
- Aluminum or stainless-steel shells

Specifications

Electrical

Parameter	Value	Condition
Dielectric withstanding voltage	1000 Vrms	Size 22D, sea level
Dielectric withstanding voltage	400 Vrms	Size 26, sea level
Insulation resistance	≥ 5000 MΩ	Room temperature

Mechanical and environmental

Parameter	Value	Condition
Durability	500 mating cycles	
Shock	300 g, 3 ms	
Random vibration	25–2000 Hz, 5 g²/Hz (100–300 Hz), 2 × 8 h	49.5 g rms
Fluid immersion	Fuels, lubricants, coolants	V version
Mold resistance	28 days	
Coupling thread	M7 × 0.5, M8.6 × 0.5, M9.6 × 0.5	Shells 3, 5, 7

Versions

Series code	Version	Notes
J599S/26	Plug	

Series code	Version	Notes
J599S/20	Square-flange receptacle	

Shell materials and finishes

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
F	Aluminum alloy	Nickel	—	—	−65 to +200 °C	48 h
K	Stainless steel	Passivated	—	—	−65 to +200 °C	500 h
S	Stainless steel	Nickel	—	—	−65 to +200 °C	500 h

Contact sizes and current ratings

Contact size	Engaging diameter	Contact resistance	Current rating	Wire size
22D	0.762 mm	≤ 14.6 mΩ	5 A	AWG 22–26 (0.13–0.33 mm²)
26	0.508 mm	≤ 26 mΩ	2 A	AWG 28–30 (0.05–0.08 mm²)

How to order

J599S/ [type] [finish] [shell] [arrangement] [contact] [key] [V]

Example: **J599S/20K0504SAV** — Square-flange receptacle, stainless steel passivated, shell 5, arrangement 05-04, socket contacts, key A, fluid-resistant

Code segment	Options
Type	**20** Square-flange receptacle
Type	**26** Plug
Finish	**F** Aluminum, nickel
Finish	**K / S** Stainless steel — passivated / nickel
Shell	**03 05 07** Shell size
Arrangement	**e.g. 35** See the insert arrangement table below
Contact	**P / S** Pin / socket
Key	**N** Normal
Key	**A B C D** Alternate
V	**V** Fluid-immersion resistant

Second example: J599S/26F0335PN — plug, aluminum nickel, shell 3, arrangement 03-35, pin contacts, key N.

Insert arrangements

Arrangement	Contacts	Contact sizes
3-35	3	3 × size 22D
3-02	2	2 × size 22D
5-35	3	3 × size 22D
5-04	4	4 × size 22D
7-35	3	3 × size 22D

Arrangement	Contacts	Contact sizes
7-05	5	5 × size 26

Standards

- **GJB 599 Series III (base design)** — Subminiature version based on the Series III design.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=J599S