SHX15 Watertight Threaded Circular Connectors, Stainless Steel

0.5 MPa mated · stainless steel · contacts up to 40 A



Mated hydrostatic pressure	0.5 MPa
Shell	Stainless steel, passivated
Current rating	5–40 A
Temperature	–40 to +120 °C
Salt spray	500 h

Key features

- Withstands 0.5 MPa hydrostatic pressure when mated
- Small, light and high contact density
- Solder contacts; scoop-proof design
- Five-key polarization with five key positions
- Watertight mechanical backshells (packing-gland cable clamp, 360° shielding), potted backshells and sealing caps
- Custom contact counts, cable lengths and materials on request.

Specifications

Electrical

Parameter	Value	Condition
Rated voltage	500 V	
Dielectric withstanding voltage	1500 V	Room temperature
Dielectric withstanding voltage	1125 V	Damp heat
Insulation resistance	≥ 5000 MΩ	Room temperature
Insulation resistance	≥ 100 MΩ	Damp heat

Mechanical and environmental

Parameter	Value	Condition
Hydrostatic pressure, mated	0.5 MPa	
Durability	500 mating cycles	
Vibration	10–2000 Hz, 147 m/s²	
Shock	490 m/s² peak	
Operating temperature	–40 to +120 °C	
Salt spray	500 h	
Mold resistance	Grade 2, 28 days	GJB 150A

Versions

Series code	Version	Notes
SHX15L…T	Threaded plug	
SHX15L…Z	Threaded receptacle	Recommended panel hole: shell size + 0.1 mm
SHX15LFJJP	Mechanical watertight backshell	Packing-gland cable clamp, 360° shielding; plugs only
SHX15QG	Potted backshell	Epoxy potting with cable clamp
SHX15L…BHG	Sealing caps for plug (T) or receptacle (Z)	

Contact sizes and current ratings

Contact size	Engaging diameter	Contact resistance	Current rating
Ø1.0	1.0 mm	≤ 4.5 mΩ	5 A
Ø1.5	1.5 mm	≤ 2.5 mΩ	10 A
Ø2.0	2.0 mm	≤ 1.25 mΩ	20 A
Ø3.0	3.0 mm	≤ 0.75 mΩ	40 A

How to order

SHX15 L [shell] [type] [arrangement] [contact] [key]

Example: **SHX15L12Z35SN** — Threaded receptacle, shell 12, arrangement 35, socket contacts, key position N

Code segment	Options
Coupling	**L** Threaded
Shell	**12 – 36** 12, 14, 18, 22, 24, 27, 30, 33, 36 (coupling thread M12 × 1 to M36 × 1)
Type	**Z** Receptacle
Type	**T** Plug
Arrangement	**—** Insert arrangement to your requirements; drawings on request
Contact	**P / S** Pin / socket
Key	**N** Normal key position
Key	**W X Y Z** Alternate key positions

Standards

- **GJB 2889B** — Chinese specification for environment-resistant circular connectors; SHX15 follows its requirements and adds watertight sealing.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=SHX15