SHX13 Watertight Connectors for Sonar and Hydrophone Equipment

Sonar equipment · 300 m water depth · 4.5 MPa mated



Depth	300 m
Pressure rating	4.5 MPa mated
Contacts	4 (others on request)
Current rating	≤ 7.5 A
Temperature	−40 to +120 °C

Key features

- Radial and axial sealing; 4.5 MPa hydrostatic pressure when mated
- Vulcanized watertight backshell
- Plug, cable receptacle and square-flange receptacle
- Custom contact counts, cable types and lengths on request

Specifications

Pressure and depth

Parameter	Value	Condition
Water depth	300 m	
Hydrostatic pressure, mated	4.5 MPa	

Electrical

Parameter	Value	Condition
Current rating	≤ 7.5 A	Per contact
Dielectric withstanding voltage	≥ 1000 V	Between contacts
Insulation resistance	≥ 500 MΩ / ≥ 20 MΩ	Room temperature / after environmental tests

Mechanical and environmental

Parameter	Value	Condition
Durability	500 mating cycles	
Vibration	10–2000 Hz, 196 m/s²	
Shock	100 g, half-sine, 6 ms	
Operating temperature	−40 to +120 °C	

Versions

Series code	Version	Notes
SHXL13...T	Plug	
SHXL13...Z	Cable receptacle	
SHXL13...ZF	Square-flange receptacle	

Shell materials and finishes

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
Ti	Titanium alloy	None	—	—	−40 to +120 °C	1000 h
K	Stainless steel	Passivated	—	—	−40 to +120 °C	500 h

How to order

SHXL13 [contacts] [contact] [type]

Example: **SHXL1304EPZ** — 4 contacts, pin contacts, cable receptacle

Code segment	Options
Contacts	**04E** 4 contacts, standard layout (other counts on request)
Contact	**P** Pin
Contact	**S** Socket
Type	**T** Plug
Type	**Z** Cable receptacle
Type	**ZF** Square-flange receptacle

Standards

- **CB/T 4387-2013** — Chinese shipbuilding industry standard for watertight connectors used in sonar.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=SHX13