SHX33 Deep-Sea Rubber-Molded Underwater Connectors, 7000 m

7000 m rated · 3 to 16 contacts · Gigabit Ethernet version



Depth	7000 m
Pressure rating	70 MPa mated and unmated
Contacts	3 to 16
Current rating	3–10 A
Temperature	–40 to +60 °C

Key features

- Rated to 7000 m operating depth; 70 MPa pressure rating mated and unmated
- One-piece vulcanized rubber body, molded directly to the cable — small, light and abrasion resistant
- Bulkhead receptacles in stainless steel or brass; locking sleeves in acetal (POM), brass or stainless steel
- Cable plugs, bulkhead receptacles and dummy plugs (protective caps) in pin or socket versions
- Wet-mateable: can be mated with water on the contact faces
- 13-contact version compatible with Gigabit Ethernet
- Custom contact counts, cable types and lengths on request

Specifications

Pressure and depth

Parameter	Value	Condition
Rated operating depth	7000 m	
Pressure rating, unmated (open face)	70 MPa	
Pressure rating, mated	70 MPa	

Electrical

Parameter	Value	Condition
Dielectric withstanding voltage	3000 V	3 to 8 contacts
Dielectric withstanding voltage	2000 V	10 to 12 contacts
Dielectric withstanding voltage	1000 V	13 to 16 contacts
Insulation resistance	≥ 1000 MΩ	500 VDC
Contact resistance	≤ 10 mΩ	
Current rating	10 A	3 to 5 contacts
Current rating	5 A	8 to 10 contacts
Current rating	3 A	12 to 16 contacts

Mechanical and environmental		
Parameter	**Value**	**Condition**
Durability	500 mating cycles	
Vibration	10–500 Hz, 147 m/s²	Electrical interruption ≤ 1 µs
Shock	100 g, half-sine, 11 ms	Electrical interruption ≤ 1 µs
Operating temperature	–40 to +60 °C	
Salt spray	500 h	

Versions

Series code	Version	Notes
SHX33L	Cable plug	0.5 m cable as standard; other lengths on request
SHX33H	Bulkhead receptacle	Stainless steel or brass
SHX33D	Dummy plug (protective cap)	

How to order

SHX33 [type] – [contacts] [pin/socket] [shell] [locking sleeve] [sleeve material] ([cable length])

Example: **SHX33H–4JBM** — Bulkhead receptacle, 4 pin contacts, stainless-steel shell, male-thread locking sleeve

Code segment	Options
Type	**L** Cable plug
Type	**H** Bulkhead (wall-mount) receptacle
Type	**D** Dummy plug (protective cap)
Contacts	**3, 4, 5, 8, 10, 12, 13, 16** Number of contacts
Contact type	**K** Socket
Contact type	**J** Pin
Receptacle shell	**B** Stainless steel
Receptacle shell	**S** Brass
Locking sleeve	**F** Female thread
Locking sleeve	**M** Male thread
Sleeve material	**(none)** Acetal (POM)
Sleeve material	**S** Brass
Sleeve material	**B** Stainless steel
Cable length	**(none)** 0.5 m
Cable length	**(n)** Length in meters, as required

The 3, 4, 5 and 8-contact versions have the same outside diameter as the 10, 12, 13 and 16-contact versions, but different mounting dimensions.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=SHX33