VG31 Reverse-Bayonet Connectors, VG 95234 Type, IP67

VG 95234 · reverse bayonet · IP67 · rail and maglev



Coupling	Reverse bayonet
Shell sizes	10SL to 40
Current rating	13–150 A
Test voltage	Up to 7000 V
Temperature	–55 to +125 °C
Protection	IP67

Key features

- Built to VG 95234; MIL-DTL-5015 insert arrangements
- Reverse-bayonet quick coupling
- IP67; UL94 V-0
- Metric or AWG crimp contacts, or solder contacts
- Plugs, shielded plugs, in-line, wall-mount, box-mount, jam-nut and bulkhead feed-through (TBF) receptacles
- Backshells with cable clamp, conduit, heat-shrink boot or shield termination

Specifications

Electrical

Parameter	Value	Condition
Test voltage	1000–7000 V	By service rating — see service ratings
Insulation resistance	≥ 5000 MΩ	

Mechanical and environmental

Parameter	Value	Condition
Ingress protection	IP67	
Flame rating	UL94 V-0	
Fluid resistance	Petrol, mineral oil, acids, alkalis	
Salt spray	500 h / 96 h	Cadmium / zinc
Damp heat	+100 °C, 96 h	
Operating temperature	–55 to +125 °C	
Durability	500 mating cycles	
Vibration	Sine 10–2000 Hz, 20 g	
Shock	30 g	

Versions

Series code	Version	Notes
3100	Wall-mount square-flange receptacle	
3101	In-line (cable) receptacle	
3102	Box-mount square-flange receptacle	
3106	Straight plug	
3108	90° plug	
07A	Jam-nut receptacle	
TBF	Bulkhead feed-through receptacle (pin one side, socket the other)	
3106...W	Shielded plug	

Contact sizes and current ratings

Contact size	Engaging diameter	Contact resistance	Current rating	Contact retention
16	1.6 mm	≤ 2.5 mΩ	13 A	35 N
12	2.4 mm	≤ 1.3 mΩ	23 A	55 N
8	3.6 mm	≤ 0.9 mΩ	46 A	80 N
4	5.7 mm	≤ 0.5 mΩ	80 A	90 N
0	9.1 mm	≤ 0.2 mΩ	150 A	95 N

Service ratings

Each insert arrangement has a service rating that sets its working and test voltage.

Service rating	Test voltage	Working voltage DC	Working voltage AC
Instrument	1000 V	250 V	200 V
A	2000 V	700 V	500 V
D	2800 V	1250 V	900 V
E	3500 V	1750 V	1250 V
B	4500 V	2450 V	1750 V
C	7000 V	4200 V	3000 V

How to order

VG [type] [class] [shell]-[arrangement] [contact] [key] - B [variant]

Example: **VG3106E18-1SX-B** — Straight plug, rubber insert with cable clamp, shell 18, arrangement 18-1, socket contacts, key X, bayonet

Code segment	Options
Type	**3100 3101 3102 3106 3108** See variants
Type	**07A / TBF** Jam-nut / feed-through receptacle
Class	**E** Rubber insert, backshell with cable clamp
Class	**F** Rubber insert, backshell for conduit
Class	**R** Rubber insert, short backshell

Code segment	Options
Contact	**P / S / PS** Pin / socket / pin-socket (TBF)
Key	**N W X Y Z** Key positions
Variant	**01 / F80** Metric / AWG crimp contacts
Variant	**13 / 14 / 15** Shielded backshell: solder / metric crimp / AWG crimp
Variant	**02 / 03 / 06** Heat-shrink boot adapter

Other variants on request.

Standards

- **VG 95234** — Reverse-bayonet circular connectors.
- **MIL-DTL-5015 (type)** — Insert arrangements.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=VG31