HMS31 Threaded Circular Connectors (MIL-DTL-5015 Type)

MIL-DTL-5015 type · threaded · contacts up to 150 A





Coupling	Threaded
Shell sizes	8S to 40
Current rating	13–150 A
Test voltage	Up to 7000 V
Temperature	–55 to +125 °C

Key features

- MIL-DTL-5015-type threaded coupling; vibration and shock resistant
- Solder contacts from size 16 (13 A) to size 0 (150 A)
- Six service ratings from Instrument to C (up to 7000 V test voltage)
- Wall-mount, box-mount and in-line receptacles; straight and 90° plugs
- Solid or split backshells; plastic or neoprene inserts
- Five key positions: N, W, X, Y, Z

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
Coupling	Threaded	
Durability	≥ 500 mating cycles	
Operating temperature	–55 to +125 °C	

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	
A / B	Solid / split backshell	

Series code	Version	Notes
(none) / E	Plastic / neoprene insert	

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

HMS [type] [backshell] [shell]-[arrangement] [contact] [key] [insert]

Example: **HMS3106A20-27PW** — Straight plug, solid backshell, shell 20, arrangement 20-27, pin contacts, key W

Code segment	Options
Type	**3100** Wall-mount square-flange receptacle
Type	**3101** In-line (cable) receptacle
Type	**3102** Box-mount square-flange receptacle
Type	**3106** Straight plug
Type	**3108** 90° plug
Backshell	**A / B** Solid / split (not for 3102)
Shell and arrangement	**e.g. 20-27** MIL-DTL-5015 arrangement
Contact	**P / S** Pin / socket
Key	**(none) W X Y Z** Normal / alternate
Insert	**(none) / E** Plastic / neoprene

Tell us your MIL-DTL-5015 arrangement; the full layout list is supplied with the quotation.

Standards

- **MIL-DTL-5015 (type)** — Shell sizes, insert arrangements and service ratings follow the MIL-DTL-5015 system.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=HMS31