

D38999 SERIES III NICKEL ALUMINIUM BRONZE CONNECTORS



NVS CONNECTORS:

Apollo is pleased to offer the NVS Marine connector to complement the Souriau JVS and Amphenol TVS nickel aluminium bronze ranges. Derived from the MIL-DTL-38999 III and CECC 75 201.002 and thereby offering the same fit, form and function, these NVS Marine connectors offer commercial benefits to the end user. Apollo is offering build from stock.

Using a rugged and high corrosion resistant housing in Nickel Aluminium Bronze Alloy, this design provides a high reliability connector with excellent saltwater corrosion resistance characteristics and dry mate sealing down to 4m immersion. Contact arrangements with high density size 22D contacts giving up to 128 ways, through sizes 20, 16, 12 and size 8. This permits a wide range of electrical power contacts to be used or high speed Databus or Optical contacts to be used in the standard connector. Contacts are terminated by crimping and are inserted and removed using standard plastic tools inserted from the rear of the connectors.

APPLICATIONS:

Navy vessels, Military, Merchant fleet, Transportation, Oceanography, Battlefield cables, shelters, High corrosion environments.

MECHANICAL CHARACTERISTICS:

Shell: Marine bronze
Finish: Natural
Insulator: Thermosetting Plastic
Grommet & Seals: Silicone Elastomer
Contacts: Crimp, removable
Contact material: Copper Alloy
Contact plating: Gold over Nickel
Endurance: 500 mating/unmating operations
Vibration: 55 Hz to 2000 Hz 10g (6 hours)
Contact retention: (mini force in N) Size 22D: 44 N, Size 12: 111 N, Size 20: 67 N, Size 8: 111 N
ENVIRONMENTAL:
Climatic Category: 65/175/56
Temperature range: -65 to +175°C
Sealing: 39 kN/m²(3.90 m depth)
Damp heat: 56 days duration
Salt spray: 500 hours duration
Endurance: 1000 hours electrical load

CONTACT RESISTANCE END TO END MATED PAIR

Contact Size	Max Millivolt Drop
22D	73
20	55
16	49
12	42
10 (Power)	33
8 (Power)	26

CURRENT RATING (TEST AMPS)

Contact Size	Amps and Wire Gauge
22D	5A (22AWG)
20	7.5A (20AWG)
16	13A (16AWG)
12	23A (12AWG)
10 (Power)	33A (AWG)
8 (Power)	46A (8AWG)

INSULATION RESISTANCE

≥ 5000 MΩ (at 500 Vdc)

SHELL CONTINUITY

5 mΩ

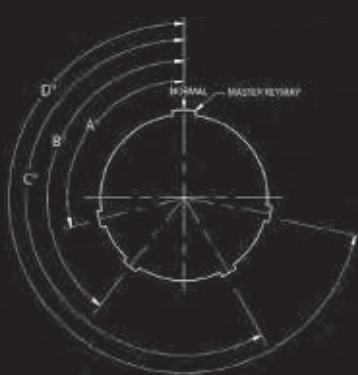
SHIELDING EFFECTIVENESS

As per MIL-STD-1344

TEST VOLTAGE (VRMS)

Service Rating	Sea Level	At 50,000 Ft
M	1300	550
N	1000	400
I	1800	600
II	2300	800

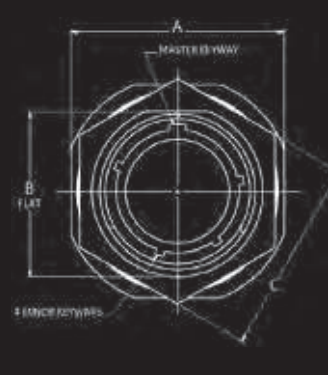
NVS Connectors Part Number		NVS07RB-11-35PN						
Range	NVS	NVS	07	RB-	11	-35	P	N
Shell Style	00	Wall Mount						
	07	Jam Nut						
	06	Plug						
Material	RB-	Nickel Aluminium Bronze						
Shell Size	09, 11, 13, 15, 17, 19, 21, 25							
Insert	As per MIL-DTL-38999 III (9-35, 11-35, 13-35 etc)							
Contact	P	Pin						
	S	Socket						
Shell Keying	N, A, B, C, D or E							
Mod Code	-LC	Less Contacts, Call For Other Mod Codes						



Shell Keying



00 Wall Mount Receptacle



07 Jam Nut Receptacle



06 RFI Plug

Apollo can also supply backshell and protection caps in Nickel Aluminium Bronze

Please contact us for further details

All information contained herein is believed to be reliable as of the date of publication and is subject to change without notice.



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