



Jam nut receptacle

Series GS

Item number: GS72-24-12SN-EAA

Packing unit: 1

Jam nut receptacle, with accessory thread These receptacles correspond to the standards MIL-DTL-5015 and VG95234. They can be used for both indoor and outdoor applications.

Depending on the backshell used watertightness of up to IP69K can be achieved for the connection. The receptacles have been tested for outdoor use according to IEC EN 60529 IP65 / IP67 / IP68 (5bar) and according to DIN 40050 and IP69K.

For outdoor applications a back shell with sealed cable clamp or with an adapter for heat shrinkable shapes is required.

The main properties of these railway-fit receptacles are, in brief: Bayonet coupling | Inserts up to 105 contacts | Cross sections from 0.5 to 50 mm² | Resistant against fuels, greas- and insulating oils etc. | High mechanical loading capacity

Mechanical properties

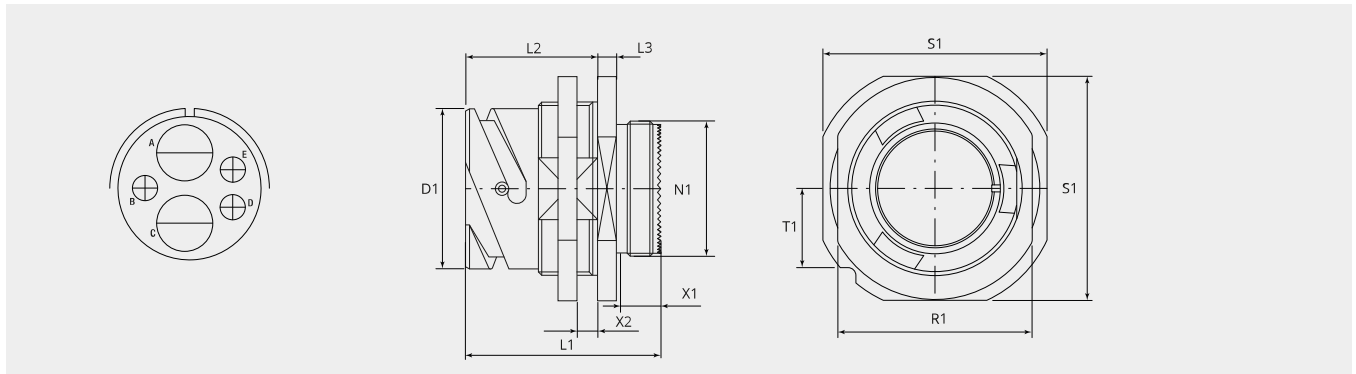
Size:	24
Contact type:	Socket
Coding options:	4
Number of contacts, size 12:	3
Number of contacts, size 4:	2
Shell material:	Aluminum alloy
Surface treatment:	Zinc
Type of surface:	passivated
Thickness of surface treatment:	12-15μ
Surface colour:	black
Corrosion resistance (h):	200
Operation temperature:	-55°C - +90°C
Temperature shock:	-55°C - +125°C
Conductivity (MΩ):	≤ 0.5
EMI:	Yes
Coupling-torque to lock (Nm):	max. 6.5
Coupling-torque to open (Nm):	min. 2.0

Thermal properties

Material contact insert: Ethylene acrylate GXF

Operating temperature: -55°C - +150°C

Fire protection class DIN EN 45545-2: R23/HL3



Dimensional drawing

D1 (Ø):	41.0
L1 (mm):	50.5
L2 (mm):	33.7
L3 (mm):	4.8
N1:	1 3/8"-18 UNEF 2A
T1 (mm):	20.2
X1 (mm):	9.0
X2 (mm):	2.4 - 9.1
S1 (mm):	57.2
R1 (mm):	50.8

Electrical properties

Operating voltage DC (V): 700

Operating voltage AC (V): 500

Test voltage AC (V): 2000

Insulation resistance (Ω m): ≥ 5000

Insulation creepage distance (mm): ≥ 3.2

Voltage class: MIL-DTL-5015

Electrical properties contacts

Size 4 - nominal current (A):	80
Size 4 - maximal current (A):	135
Size 4 - test current (A):	110
Size 12 - nominal current (A):	23
Size 12 - maximal current (A):	41
Size 12 - test current (A):	35

Please contact your Gimota partner for other shell materials, surface coatings or contact insert materials.

Voltage classes tested acc. MIL-DTL-5015

Power transmission verification acc. VG95234 / 2 test 5.10.1 and VG95210 / 37

Corrosion resistance tested acc. MIL 1344A Test 101.1

Temperature shock tested acc. MIL 202F, 107G Method

Electrical conductivity acc. MIL 1344A, Test 3007

Complementary products:

Counterpart:



GS60-24-12PN-EAA

Plug with bayonet coupling nut



GS601-24-12PN-EAA

Plug with bayonet coupling nut, for EMI applications



GS602-24-12PN-EAA

Plug with rubber coated coupling nut



GS604-24-12PN-EAA

Plug with rubber coated coupling nut, for EMI applications

Backshell:



BEN24-AA

90° elbow backshell



BEN24-M5B-AA

90° elbow backshell with internal metric thread



BSH24-AA

Backshell with groove for heatshrinkable shapes



BSL24-AA

Backshell straight, long



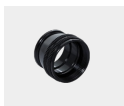
BSN24-M5B-AA

Backshell straight with internal metric thread



BSR24-18-AA

Reducer backshell



BST24-AA

Termination back shell typ R for grommet



ET-24-07-AA

EMI adapter with cone ring, for heatshrinkable shape

Cable termination:



10-350349K-2432

Synthetic cable clamp

Contacts:



10-40560-11AU

Socket contact size 12, 0.5mm²



10-40560-15AU

Socket contact size 12, 0.75 - 1.0mm²



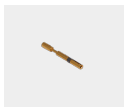
10-40560-18AU

Socket contact size 12, 1.5mm²



10-40560-22AU

Socket contact size 12, 2.5mm²



10-40560-30AU

Socket contact size 12, 4.0mm²



10-40560-38AU

Socket contact size 12, 6.0mm²



10-903-4-10G10

Socket contact size 4, 10mm²



10-903-4-16G10

Socket contact size 4, 16mm²



10-903-4-16G62

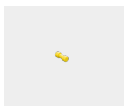
Socket contact size 4, 16mm²



10-903-4-6G10

Socket contact size 4, 6.0mm²

Filler plugs:



10-101033-131

Filler plug, size 12



10-101033-4

Filler plug, size 4

Protection cap:



PR24-AA

Metallic protection cap for bayonet receptacles (GB,GR & GS)



PR24-D

Plastic protection cap to bayonet receptacles (GB, GR &GS)