

Receptacle with flange

Series GR

Item number: GR321-24-12SN-EAA

Packing unit: 1



MECHANICAL PROPERTIES

Size:	24
Contact type:	Socket
Number of coding options:	4
Number of contacts:	5
Number of contacts, size 4:	2
Number of contacts, size 12:	3
Shell material:	Aluminum alloy
Surface:	Zinc
Type of surface:	Passivated
Thickness of surface treatment [μ]:	12-15 μ
Surface colour:	Black
Corrosion resistance [h]:	200
Operation temperature [$^{\circ}$ C]:	-55 - +90

MECHANICAL PROPERTIES

Temperature shock [°C]: -55 - +125

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 insert [°C]: -55 - +150

ELECTRICAL PROPERTIES

Operating voltage DC [V]: 700

Operating voltage AC [V]: 500

Test voltage AC [V]: 2000

Insulation resistance (MΩ): ≥ 5000

Insulation creepage distance [mm]: ≥ 3.2

Voltage class: MIL-DTL-5015

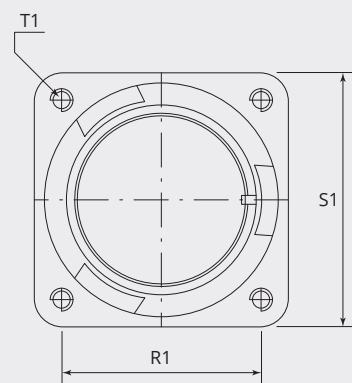
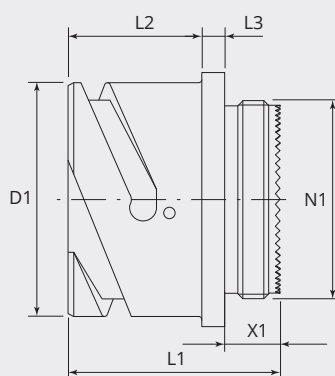
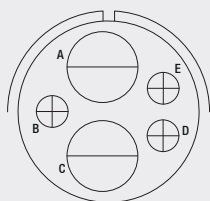
ELECTRICAL PROPERTIES CONTACTS

Size 4 - rated current (continuous) [A]:	80
Size 4 - maximum current (short-term) [A]:	135
Size 4 - test current [A]:	110
Size 12 - rated current (continuous) [A]:	23
Size 12 - maximum current (short-term) [A]:	41
Size 12 - test current [A]:	35

STANDARDS

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



DIMENSIONS

D1 Ø [mm]:	41
L1 [mm]:	38.8
L2 [mm]:	23.1
L3 [mm]:	4.0
N1:	1 3/8"-18 UNEF 2A
T1 [mm]:	3.2 / M4
X1 [mm]:	9.0
S1 [mm]:	44.5
R1 [mm]:	35

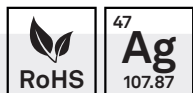
- Please contact your Gimota partner for other shell materials, surface coatings or contact insert materials.
- Voltage classes tested acc. MIL-DTL-5015 Power transmission verification acc. VG95234 / 2 test 5.10.1 and VG95210 / 37
- Corrosion resistance tested acc. MIL 1344A Test 101.1 Temperature shock tested acc. MIL 202F, 107G Method Electrical conductivity acc. MIL 1344A, Test 3007

Socket contact size 4, 6.0mm²

Item number: 10-903-4-6G10

Product weight (kg): 0.0153 kg

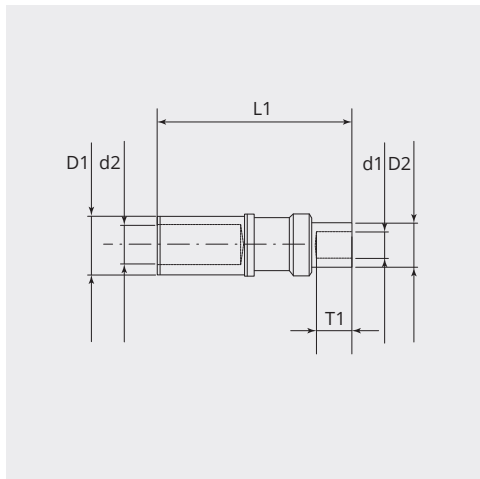
Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Socket
Maximum current (short-term) [A]:	135
Test current [A]:	110
Rated current (continuous) [A]:	80
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	6
Wire section [AWG]:	8
Stripping length [mm]:	9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	11
D2 Ø [mm]:	5.2
d1 Ø [mm]:	3.6
d2 Ø [mm]:	5.7
L1 [mm]:	41
T1 [mm]:	8.5

Socket contact size 12, 4.0mm²

Item number: 10-40560-30AU

Product weight (kg): 0.0035 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 41

Test current [A]: 35

Rated current (continuous) [A]: 23

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 4

Wire section [AWG]: 12 - 10

Stripping length [mm]: 9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	4.8
D2 Ø [mm]:	4.75
d1 Ø [mm]:	2.95
d2 Ø [mm]:	2.4
L1 [mm]:	38
T1 [mm]:	8.5

Socket contact size 4, 16mm²

Item number: 10-903-4-16G10

Product weight (kg): 0.0171 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Socket
Maximum current (short-term) [A]:	135
Test current [A]:	110
Rated current (continuous) [A]:	80
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	16
Wire section [AWG]:	4 - 3
Stripping length [mm]:	13

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	11
D2 Ø [mm]:	9.3
d1 Ø [mm]:	7
d2 Ø [mm]:	5.7
L1 [mm]:	41
T1 [mm]:	12.2

Socket contact size 12, 2.5mm²

Item number: 10-40560-22AU

Product weight (kg): 0.0033 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 41

Test current [A]: 35

Rated current (continuous) [A]: 23

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 2.5

Wire section [AWG]: 14

Stripping length [mm]: 9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	4.8
D2 Ø [mm]:	3.95
d1 Ø [mm]:	2.25
d2 Ø [mm]:	2.4
L1 [mm]:	38
T1 [mm]:	8.5

Socket contact size 4, 16mm²

Item number: 10-903-4-16G62

Product weight (kg): 0.0184 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 135

Test current [A]: 110

Rated current (continuous) [A]: 80

Contact Material: CU alloy

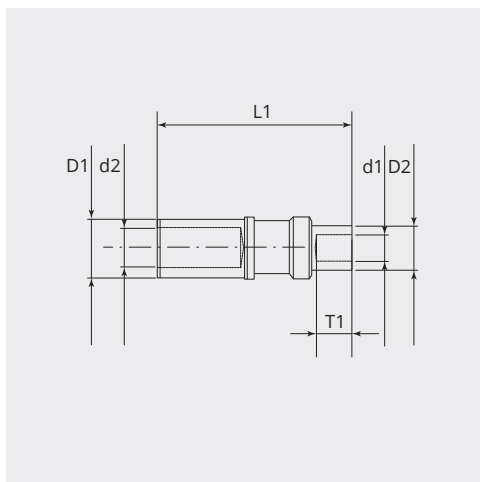
Protective layer: Silver plated, 3.5µm

Connection type: Crimp

Wire section [mm²]: 16

Stripping length [mm]: 13

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	11
D2 Ø [mm]:	9.3
d1 Ø [mm]:	6.2
d2 Ø [mm]:	5.7
L1 [mm]:	41
T1 [mm]:	12.2

Socket contact size 12, 6.0mm²

Item number: 10-40560-38AU

Product weight (kg): 0.0033 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 41

Test current [A]: 35

Rated current (continuous) [A]: 23

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 6

Wire section [AWG]: 10

Stripping length [mm]: 9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	4.8
D2 Ø [mm]:	4.75
d1 Ø [mm]:	3.5
d2 Ø [mm]:	2.4
L1 [mm]:	38
T1 [mm]:	8.5

Socket contact size 12, 0.5mm²

Item number: 10-40560-11AU

Product weight (kg): 0.0031 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 41

Test current [A]: 35

Rated current (continuous) [A]: 23

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 0.5

Wire section [AWG]: 20

Stripping length [mm]: 9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	4.8
D2 Ø [mm]:	3
d1 Ø [mm]:	1.1
d2 Ø [mm]:	2.4
L1 [mm]:	38
T1 [mm]:	8.5

Socket contact size 4, 10mm²

Item number: 10-903-4-10G10

Product weight (kg): 0.016 kg

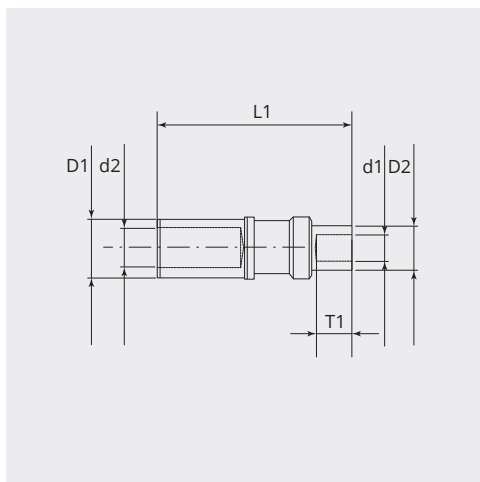
Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Socket
Maximum current (short-term) [A]:	135
Test current [A]:	110
Rated current (continuous) [A]:	80
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	10
Wire section [AWG]:	6
Stripping length [mm]:	13

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	11
D2 Ø [mm]:	6.5
d1 Ø [mm]:	4.6
d2 Ø [mm]:	5.7
L1 [mm]:	41
T1 [mm]:	12.2

Socket contact size 12, 0.75 - 1.0mm²

Item number: 10-40560-15AU

Product weight (kg): 0.0032 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 41

Test current [A]: 35

Rated current (continuous) [A]: 23

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 0.75 - 1.0

Wire section [AWG]: 22 - 18

Stripping length [mm]: 9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	4.8
D2 Ø [mm]:	3.35
d1 Ø [mm]:	1.45
d2 Ø [mm]:	2.4
L1 [mm]:	38
T1 [mm]:	8.5

Socket contact size 12, 1.5mm²

Item number: 10-40560-18AU

Product weight (kg): 0.0033 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

Maximum current (short-term) [A]: 41

Test current [A]: 35

Rated current (continuous) [A]: 23

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 1.5

Wire section [AWG]: 18 - 16

Stripping length [mm]: 9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	4.8
D2 Ø [mm]:	3.95
d1 Ø [mm]:	1.75
d2 Ø [mm]:	2.4
L1 [mm]:	38
T1 [mm]:	8.5