

Receptacle with flange

Series GR

Item number: GR321-32-59PN-EAA

Packing unit: 1



MECHANICAL PROPERTIES

Size:	32
Contact type:	Pin
Number of coding options:	4
Number of contacts:	42
Number of contacts, size 8H:	2
Number of contacts, size 16:	40
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. 8.0

Coupling-torque to open [Nm]: min. 3.6

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

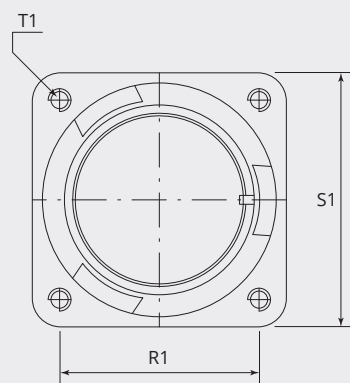
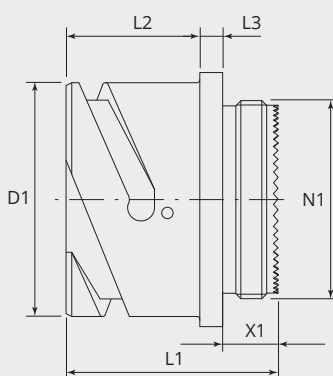
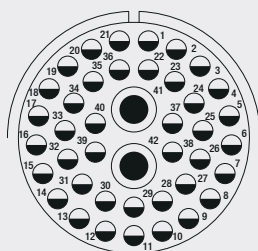
ELECTRICAL PROPERTIES CONTACTS

Size 8H - rated current (continuous) [A]:	56
Size 8H - maximum current (short-term) [A]:	90
Size 8H - test current [A]:	72
Size 16 - rated current (continuous) [A]:	13
Size 16 - maximum current (short-term) [A]:	22
Size 16 - test current [A]:	20

STANDARDS

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



DIMENSIONS

D1 Ø [mm]:	53.4
L1 [mm]:	39.5
L2 [mm]:	24.1
L3 [mm]:	4.0
N1:	17/8"-16 UN 2A
T1 [mm]:	4.3 / M5
X1 [mm]:	10.5
S1 [mm]:	57
R1 [mm]:	44.5

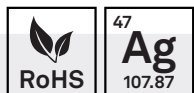
- Please contact your Gimota partner for other shell materials, surface coatings or contact insert materials.
- Voltage classes tested acc. MIL-DTL-5015 Power transmission verification acc. VG95234 / 2 test 5.10.1 and VG95210 / 37
- Corrosion resistance tested acc. MIL 1344A Test 101.1 Temperature shock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

Pin contact size 8H, 1.5mm²

Item number: 10-40794-18AG

Product weight (kg): 0.0062 kg

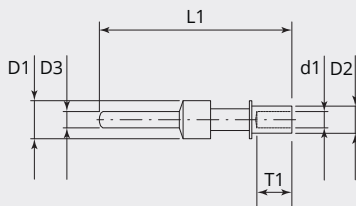
Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Pin
Maximum current (short-term) [A]:	90
Test current [A]:	72
Rated current (continuous) [A]:	56
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	1.5
Wire section [AWG]:	16
Stripping length [mm]:	9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	7.8
D2 Ø [mm]:	4
D3 Ø [mm]:	3.6
d1 Ø [mm]:	1.75
L1 [mm]:	41
T1 [mm]:	8.5

Pin contact size 8H, 6mm²

Item number: 10-40794-38AG

Product weight (kg): 0.0061 kg

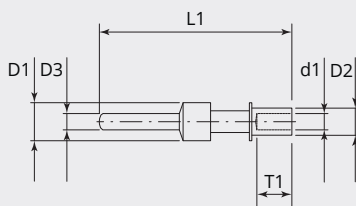
Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Pin
Maximum current (short-term) [A]:	90
Test current [A]:	72
Rated current (continuous) [A]:	56
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	6
Wire section [AWG]:	10
Stripping length [mm]:	9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	7.8
D2 Ø [mm]:	5
D3 Ø [mm]:	3.6
d1 Ø [mm]:	3.55
L1 [mm]:	41
T1 [mm]:	8.5

Pin contact size 16, 1.0mm²

Item number: 10-40557AU

Product weight (kg): 0.001 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Pin

Maximum current (short-term) [A]: 22

Test current [A]: 20

Rated current (continuous) [A]: 13

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 1

Wire section [AWG]: 16

Stripping length [mm]: 7

DIMENSIONS



DIMENSIONS

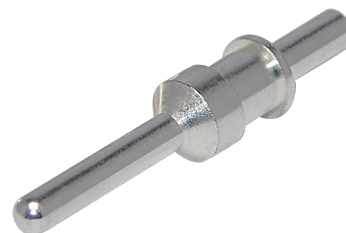
D1 Ø [mm]:	3.1
D2 Ø [mm]:	2.9
D3 Ø [mm]:	1.6
d1 Ø [mm]:	1.8
L1 [mm]:	32
T1 [mm]:	6.4

Pin contact size 8H, 2.5mm²

Item number: 10-40794-22AG

Product weight (kg): 0.006 kg

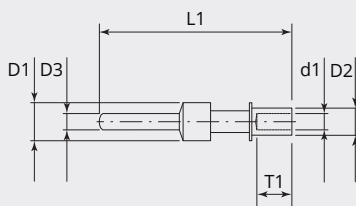
Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Pin
Maximum current (short-term) [A]:	90
Test current [A]:	72
Rated current (continuous) [A]:	56
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	2.5
Wire section [AWG]:	12
Stripping length [mm]:	9

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	7.8
D2 Ø [mm]:	4
D3 Ø [mm]:	3.6
d1 Ø [mm]:	2.3
L1 [mm]:	41
T1 [mm]:	8.5

Pin contact size 8H, 10mm²

Item number: 10-40794-50AG

Product weight (kg): 0.0066 kg

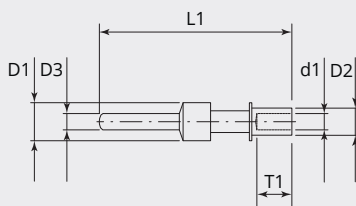
Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Pin
Maximum current (short-term) [A]:	90
Test current [A]:	72
Rated current (continuous) [A]:	56
Contact Material:	CU alloy
Protective layer:	Silver plated, 3.5µm
Connection type:	Crimp
Wire section [mm ²]:	10
Wire section [AWG]:	8 - 6
Stripping length [mm]:	13

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	7.8
D2 Ø [mm]:	6.35
D3 Ø [mm]:	3.6
d1 Ø [mm]:	4.6
L1 [mm]:	41
T1 [mm]:	12.2

Pin contact size 16, 0.25 -0.5mm²

Item number: 10-40557-05AU

Product weight (kg): 0.0009 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type: Pin

Maximum current (short-term) [A]: 22

Test current [A]: 20

Rated current (continuous) [A]: 13

Contact Material: CU alloy

Protective layer: Gold plated, 0.5µm

Connection type: Crimp

Wire section [mm²]: 0.25 - 0.5

Wire section [AWG]: 22 - 20

Stripping length [mm]: 7

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	3.1
D2 Ø [mm]:	2.15
D3 Ø [mm]:	1.6
d1 Ø [mm]:	1.1
L1 [mm]:	32
T1 [mm]:	6.4

Pin contact size 16, 1.5mm²

Item number: 10-40557-20-1AU

Product weight (kg): 0.001 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Pin
Maximum current (short-term) [A]:	22
Test current [A]:	20
Rated current (continuous) [A]:	13
Contact Material:	CU alloy
Protective layer:	Gold plated, 0.5µm
Connection type:	Crimp
Wire section [mm ²]:	1.5
Stripping length [mm]:	7

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	3.1
D2 Ø [mm]:	2.62
D3 Ø [mm]:	1.6
d1 Ø [mm]:	1.75
L1 [mm]:	32
T1 [mm]:	6.4

Pin contact size 16, 0.75mm²

Item number: 10-40557-075AU

Product weight (kg): 0.0009 kg

Packing unit:



MECHANICAL PROPERTIES CONTACTS

Contact type:	Pin
Maximum current (short-term) [A]:	22
Test current [A]:	20
Rated current (continuous) [A]:	13
Contact Material:	CU alloy
Protective layer:	Gold plated, 0.5µm
Connection type:	Crimp
Wire section [mm ²]:	0.75
Wire section [AWG]:	18
Stripping length [mm]:	7

DIMENSIONS



DIMENSIONS

D1 Ø [mm]:	3.1
D2 Ø [mm]:	2.2
D3 Ø [mm]:	1.6
d1 Ø [mm]:	1.35
L1 [mm]:	32
T1 [mm]:	6.4