

# Cable receptacle

Series GR

Item number: GR11-32-31SN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 32             |
| Contact type:                             | Socket         |
| Number of coding options:                 | 4              |
| Number of contacts:                       | 31             |
| Number of contacts, size 16:              | 31             |
| Shell material:                           | Aluminum alloy |
| Surface:                                  | Zinc           |
| Type of surface:                          | Passivated     |
| Thickness of surface treatment [ $\mu$ ]: | 12-15 $\mu$    |
| Surface colour:                           | Black          |
| Corrosion resistance [h]:                 | 200            |
| Operation temperature [°C]:               | -55 - +90      |
| Temperature shock [°C]:                   | -55 - +125     |

## MECHANICAL PROPERTIES

|                               |          |
|-------------------------------|----------|
| 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 AC [V]:          | 130/250       |
| Insulation resistance (mΩ):        | ≥ 5000        |
| Voltage class:                     | SEV-EN60998-1 |
| Contact numbers:                   | All           |
| 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 index:                     | MIL-DTL-5015  |

## ELECTRICAL PROPERTIES CONTACTS

Size 16 - rated current (continuous) [A]: 13

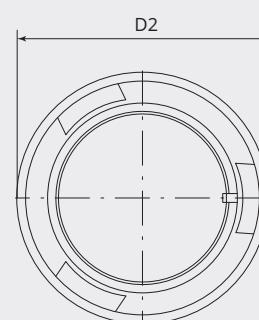
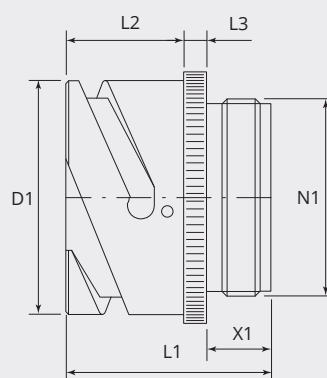
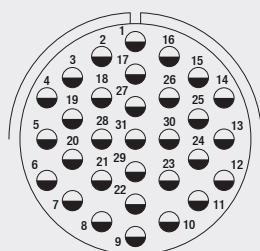
Size 16 - maximum current (short-term) [A]: 22

Size 16 - test current [A]: 20

## STANDARDS

Fire protection class EN 45545-2: R23/HL3

## DIMENSIONS



## DIMENSIONS

D1 Ø [mm]: 53.5

D2 Ø [mm]: 56.0

L1 [mm]: 37.5

## DIMENSIONS

|          |                 |
|----------|-----------------|
| L2 [mm]: | 22.0            |
| L3 [mm]: | 4.0             |
| N1:      | 1 7/8"-16 UN 2A |
| X1 [mm]: | 10.5            |

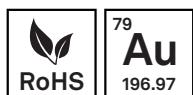
- Please contact your Gimota partner for other shell materials, surface coatings or contact insert materials.
- Voltage classes tested acc. MIL-DTL-5015 Power transmission verification acc. VG95234 / 2 test 5.10.1 and VG95210 / 37
- Corrosion resistance tested acc. MIL 1344A Test 101.1 Temperature shock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

## Socket contact size 16, 1.0mm<sup>2</sup>

Item number: 10-40556AU

Product weight (kg): 0.0016 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|               |        |
|---------------|--------|
| Contact type: | Socket |
|---------------|--------|

|                                   |    |
|-----------------------------------|----|
| 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 <sup>2</sup> ]: | 1 |
|----------------------------------|---|

|                     |    |
|---------------------|----|
| Wire section [AWG]: | 16 |
|---------------------|----|

|                        |   |
|------------------------|---|
| Stripping length [mm]: | 7 |
|------------------------|---|

## DIMENSIONS



## DIMENSIONS

|            |     |
|------------|-----|
| D1 Ø [mm]: | 3.1 |
| D2 Ø [mm]: | 2.9 |
| d1 Ø [mm]: | 1.8 |
| d2 Ø [mm]: | 1.6 |
| L1 [mm]:   | 37  |
| T1 [mm]:   | 6.4 |

## Socket contact size 16, 0.25 - 0.5mm<sup>2</sup>

Item number: 10-40556-05AU

Product weight (kg): 0.0002 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

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<sup>2</sup>]: 0.25 - 0.5

Wire section [AWG]: 22 - 20

Stripping length [mm]: 7

## DIMENSIONS



## DIMENSIONS

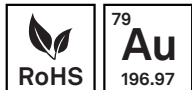
|            |      |
|------------|------|
| D1 Ø [mm]: | 3.1  |
| D2 Ø [mm]: | 2.15 |
| d1 Ø [mm]: | 1.1  |
| d2 Ø [mm]: | 1.6  |
| L1 [mm]:   | 37   |
| T1 [mm]:   | 6.4  |

## Socket contact size 16, 0.75mm<sup>2</sup>

Item number: 10-40556-075AU

Product weight (kg): 0.0015 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

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<sup>2</sup>]: 0.75

Wire section [AWG]: 18

Stripping length [mm]: 7

## DIMENSIONS



## DIMENSIONS

|            |      |
|------------|------|
| D1 Ø [mm]: | 3.1  |
| D2 Ø [mm]: | 2.2  |
| d1 Ø [mm]: | 1.35 |
| d2 Ø [mm]: | 1.6  |
| L1 [mm]:   | 37   |
| T1 [mm]:   | 6.4  |

## Socket contact size 16, 1.5mm<sup>2</sup>

Item number: 10-40556-20-1AU

Product weight (kg): 0.0016 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

Contact type: Socket

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<sup>2</sup>]: 1.5

Stripping length [mm]: 7

## DIMENSIONS



## DIMENSIONS

|            |      |
|------------|------|
| D1 Ø [mm]: | 3.1  |
| D2 Ø [mm]: | 2.62 |
| d1 Ø [mm]: | 1.75 |
| d2 Ø [mm]: | 1.6  |
| L1 [mm]:   | 37   |
| T1 [mm]:   | 6.4  |