

# Plug with rubber coated coupling nut

Series GR

Item number: GR602-28-51PN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 28             |
| Contact type:                             | Pin            |
| Number of coding options:                 | 3              |
| Number of contacts:                       | 12             |
| Number of contacts, size 12:              | 12             |
| 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      |

## MECHANICAL PROPERTIES

|                               |            |
|-------------------------------|------------|
| Temperature shock [°C]:       | -55 - +125 |
| Conductivity (MΩ):            | ≤ 0.5      |
| Coupling-torque to lock [Nm]: | max. 7.0   |
| Coupling-torque to open [Nm]: | min. 2.7   |

## THERMAL PROPERTIES

|                                    |                       |
|------------------------------------|-----------------------|
| Material contact insert:           | Ethylene acrylate GXF |
| Operating temperature insert [°C]: | -55 - +150            |

## ELECTRICAL PROPERTIES

|                                    |              |
|------------------------------------|--------------|
| Operating voltage DC [V]:          | 1250         |
| Operating voltage AC [V]:          | 900          |
| Test voltage AC [V]:               | 2800         |
| Insulation resistance (mΩ):        | ≥ 5000       |
| Insulation creepage distance [mm]: | ≥ 4.8        |
| Voltage class:                     | MIL-DTL-5015 |

## ELECTRICAL PROPERTIES CONTACTS

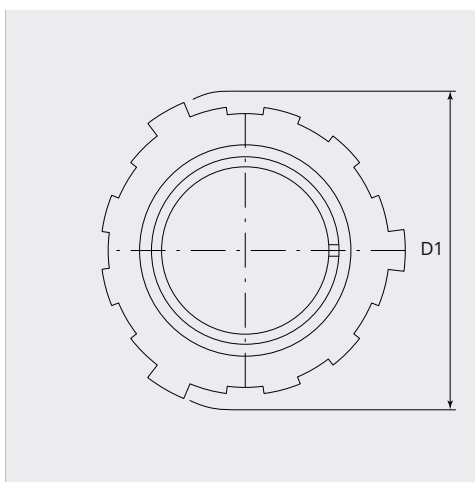
|                                             |    |
|---------------------------------------------|----|
| Size 12 - rated current (continuous) [A]:   | 23 |
| Size 12 - maximum current (short-term) [A]: | 41 |
| Size 12 - test current [A]:                 | 35 |

## STANDARDS

Fire protection class EN 45545-2:

R23/HL3

## DIMENSIONS



## DIMENSIONS

|            |                   |
|------------|-------------------|
| D1 Ø [mm]: | 67                |
| L1 [mm]:   | 39.0              |
| N1:        | 1 5/8"-18 UNEF 2A |
| X1 [mm]:   | 9.0               |

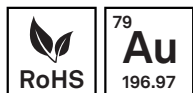
- Please contact your Gimota partner for other shell materials, surface coatings or contact insert materials.
- Voltage classes tested acc. MIL-DTL-5015 Power transmission verification acc. VG95234 / 2 test 5.10.1 and VG95210 / 37
- Corrosion resistance tested acc. MIL 1344A Test 101.1 Temperature shock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

## Pin contact size 12, 1.5mm<sup>2</sup>

Item number: 10-40561-18AU

Product weight (kg): 0.0024 kg

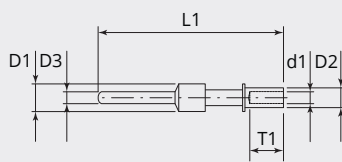
Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                   |                    |
|-----------------------------------|--------------------|
| Contact type:                     | Pin                |
| 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 [mm <sup>2</sup> ]:  | 1.5                |
| Wire section [AWG]:               | 18 - 16            |
| Stripping length [mm]:            | 9                  |

## DIMENSIONS



## DIMENSIONS

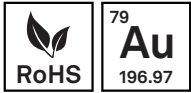
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 3.95 |
| D3 Ø [mm]: | 2.4  |
| d1 Ø [mm]: | 1.75 |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

## Pin contact size 12, 6.0mm<sup>2</sup>

Item number: 10-40561-38AU

Product weight (kg): 0.0023 kg

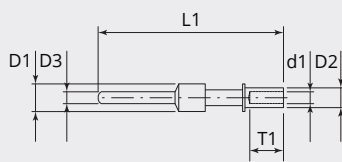
Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                   |                    |
|-----------------------------------|--------------------|
| Contact type:                     | Pin                |
| 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 [mm <sup>2</sup> ]:  | 6                  |
| Wire section [AWG]:               | 10                 |
| Stripping length [mm]:            | 9                  |

## DIMENSIONS



## DIMENSIONS

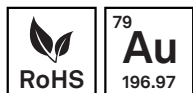
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 4.75 |
| D3 Ø [mm]: | 2.4  |
| d1 Ø [mm]: | 3.5  |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

## Pin contact size 12, 4.0mm<sup>2</sup>

Item number: 10-40561-30AU

Product weight (kg): 0.0025 kg

Packing unit:

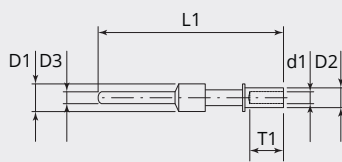


### MECHANICAL PROPERTIES CONTACTS

|                                   |                    |
|-----------------------------------|--------------------|
| Contact type:                     | Pin                |
| 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 [mm <sup>2</sup> ]:  | 4                  |
| Wire section [AWG]:               | 12 - 10            |
| Stripping length [mm]:            | 9                  |



## DIMENSIONS



## DIMENSIONS

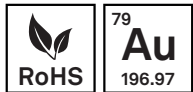
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 4.75 |
| D3 Ø [mm]: | 2.4  |
| d1 Ø [mm]: | 2.95 |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

## Pin contact size 12, 0.5mm<sup>2</sup>

Item number: 10-40561-11AU

Product weight (kg): 0.0022 kg

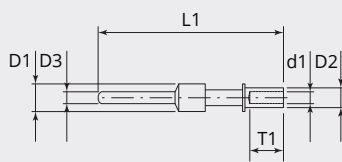
Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                   |                    |
|-----------------------------------|--------------------|
| Contact type:                     | Pin                |
| 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 [mm <sup>2</sup> ]:  | 0.5                |
| Wire section [AWG]:               | 20                 |
| Stripping length [mm]:            | 9                  |

## DIMENSIONS



## DIMENSIONS

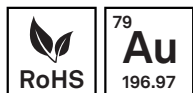
|            |     |
|------------|-----|
| D1 Ø [mm]: | 4.8 |
| D2 Ø [mm]: | 3   |
| D3 Ø [mm]: | 2.4 |
| d1 Ø [mm]: | 1.1 |
| L1 [mm]:   | 38  |
| T1 [mm]:   | 8.5 |

## Pin contact size 12, 0.75 - 1.0mm<sup>2</sup>

Item number: 10-40561-15AU

Product weight (kg): 0.0022 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|               |     |
|---------------|-----|
| Contact type: | Pin |
|---------------|-----|

|                                   |    |
|-----------------------------------|----|
| 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 |
|-------------------|--------------------|

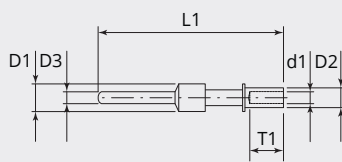
|                  |       |
|------------------|-------|
| Connection type: | Crimp |
|------------------|-------|

|                                  |            |
|----------------------------------|------------|
| Wire section [mm <sup>2</sup> ]: | 0.75 - 1.0 |
|----------------------------------|------------|

|                     |         |
|---------------------|---------|
| Wire section [AWG]: | 22 - 18 |
|---------------------|---------|

|                        |   |
|------------------------|---|
| Stripping length [mm]: | 9 |
|------------------------|---|

## DIMENSIONS



## DIMENSIONS

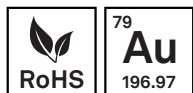
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 3.35 |
| D3 Ø [mm]: | 2.4  |
| d1 Ø [mm]: | 1.45 |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

## Pin contact size 12, 2.5mm<sup>2</sup>

Item number: 10-40561-22AU

Product weight (kg): 0.0023 kg

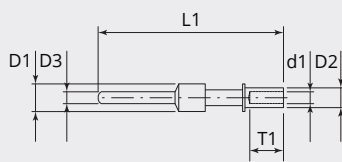
Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                   |                    |
|-----------------------------------|--------------------|
| Contact type:                     | Pin                |
| 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 [mm <sup>2</sup> ]:  | 2.5                |
| Wire section [AWG]:               | 14                 |
| Stripping length [mm]:            | 9                  |

## DIMENSIONS



## DIMENSIONS

|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 3.95 |
| D3 Ø [mm]: | 2.4  |
| d1 Ø [mm]: | 2.25 |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |