

# Plug with bayonet coupling nut, for EMI applications

Series GR

Item number: GR601-28-5SN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 28             |
| Contact type:                             | Socket         |
| Number of coding options:                 | 4              |
| Number of contacts:                       | 5              |
| Number of contacts, size 4:               | 2              |
| Number of contacts, size 12:              | 1              |
| Number of contacts, size 16:              | 2              |
| Shell material:                           | Aluminum alloy |
| Surface:                                  | Zinc           |
| Type of surface:                          | Passivated     |
| Thickness of surface treatment [ $\mu$ ]: | 12-15 $\mu$    |
| Surface colour:                           | Black          |

## MECHANICAL PROPERTIES

|                               |            |
|-------------------------------|------------|
| Corrosion resistance [h]:     | 200        |
| Operation temperature [°C]:   | -55 - +90  |
| Temperature shock [°C]:       | -55 - +125 |
| Conductivity (MΩ):            | ≤ 0.5      |
| EMI:                          | Yes        |
| 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 |

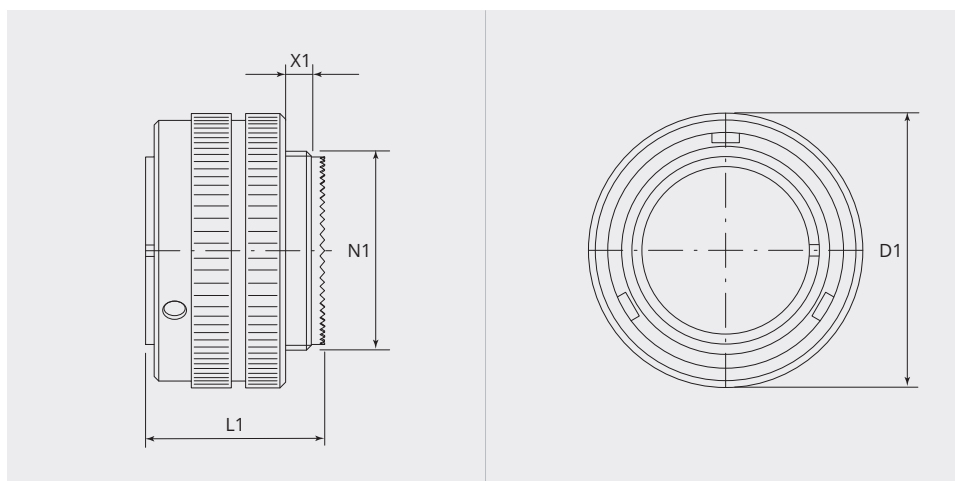
## ELECTRICAL PROPERTIES CONTACTS

|                                             |     |
|---------------------------------------------|-----|
| Size 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  |
| 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]: | 54                |
| L1 [mm]:   | 36.0              |
| N1:        | 1 5/8"-18 UNEF 2A |
| X1 [mm]:   | 9.0               |

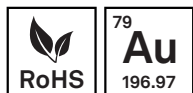
- Please contact your Gimota partner for other shell materials, surface coatings or contact insert materials.
- Voltage classes tested acc. MIL-DTL-5015Power transmission verification acc. VG95234 / 2 test 5.10.1 and VG95210 / 37
- Corrosion resistance tested acc. MIL 1344A Test 101.1Temperature shock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

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

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

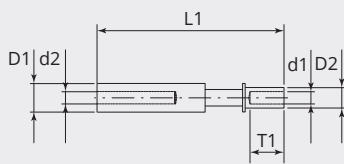
|                  |       |
|------------------|-------|
| Connection type: | Crimp |
|------------------|-------|

|                                  |     |
|----------------------------------|-----|
| Wire section [mm <sup>2</sup> ]: | 0.5 |
|----------------------------------|-----|

|                     |    |
|---------------------|----|
| Wire section [AWG]: | 20 |
|---------------------|----|

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

## DIMENSIONS



## DIMENSIONS

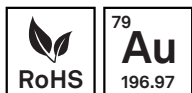
|            |     |
|------------|-----|
| D1 Ø [mm]: | 4.8 |
| D2 Ø [mm]: | 3   |
| d1 Ø [mm]: | 1.1 |
| d2 Ø [mm]: | 2.4 |
| L1 [mm]:   | 38  |
| T1 [mm]:   | 8.5 |

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

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

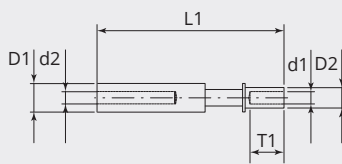
Connection type: Crimp

Wire section [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 |
| d1 Ø [mm]: | 1.75 |
| d2 Ø [mm]: | 2.4  |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

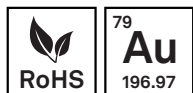


## Socket contact size 12, 2.5mm<sup>2</sup>

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

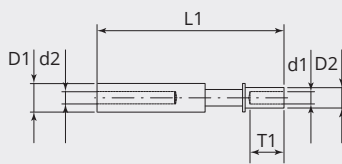
Connection type: Crimp

Wire section [mm<sup>2</sup>]: 2.5

Wire section [AWG]: 14

Stripping length [mm]: 9

## DIMENSIONS



## DIMENSIONS

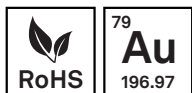
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 3.95 |
| d1 Ø [mm]: | 2.25 |
| d2 Ø [mm]: | 2.4  |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

## 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

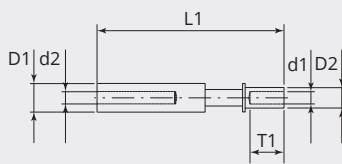
Connection type: Crimp

Wire section [mm<sup>2</sup>]: 1

Wire section [AWG]: 16

Stripping length [mm]: 7

## DIMENSIONS



## DIMENSIONS

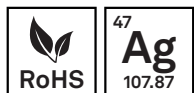
|            |     |
|------------|-----|
| D1 Ø [mm]: | 3.1 |
| D2 Ø [mm]: | 2.9 |
| d1 Ø [mm]: | 1.8 |
| d2 Ø [mm]: | 1.6 |
| L1 [mm]:   | 37  |
| T1 [mm]:   | 6.4 |

## Socket contact size 4, 10mm<sup>2</sup>

Item number: 10-903-4-10G10

Product weight (kg): 0.016 kg

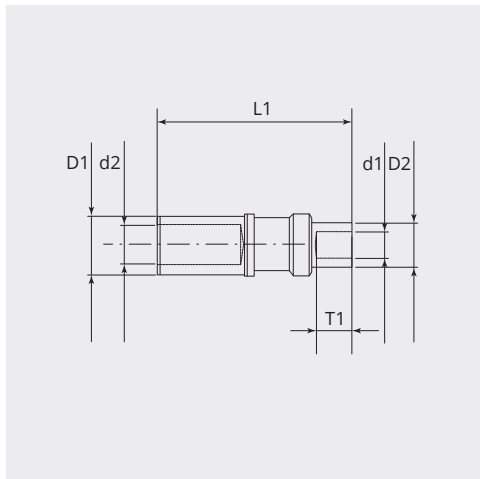
Packing unit:



### 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 <sup>2</sup> ]:  | 10                   |
| Wire section [AWG]:               | 6                    |
| Stripping length [mm]:            | 13                   |

## DIMENSIONS



## DIMENSIONS

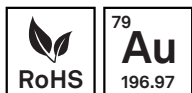
|            |      |
|------------|------|
| D1 Ø [mm]: | 11   |
| D2 Ø [mm]: | 6.5  |
| d1 Ø [mm]: | 4.6  |
| d2 Ø [mm]: | 5.7  |
| L1 [mm]:   | 41   |
| T1 [mm]:   | 12.2 |

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

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

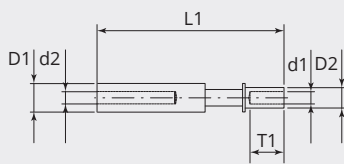
Connection type: Crimp

Wire section [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 |
| d1 Ø [mm]: | 2.95 |
| d2 Ø [mm]: | 2.4  |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

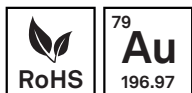


## Socket contact size 16, 0.75mm<sup>2</sup>

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

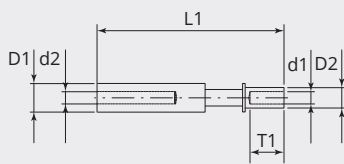
Connection type: Crimp

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

Wire section [AWG]: 18

Stripping length [mm]: 7

## DIMENSIONS



## DIMENSIONS

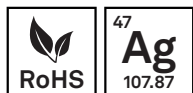
|            |      |
|------------|------|
| D1 Ø [mm]: | 3.1  |
| D2 Ø [mm]: | 2.2  |
| d1 Ø [mm]: | 1.35 |
| d2 Ø [mm]: | 1.6  |
| L1 [mm]:   | 37   |
| T1 [mm]:   | 6.4  |

## Socket contact size 4, 16mm<sup>2</sup>

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

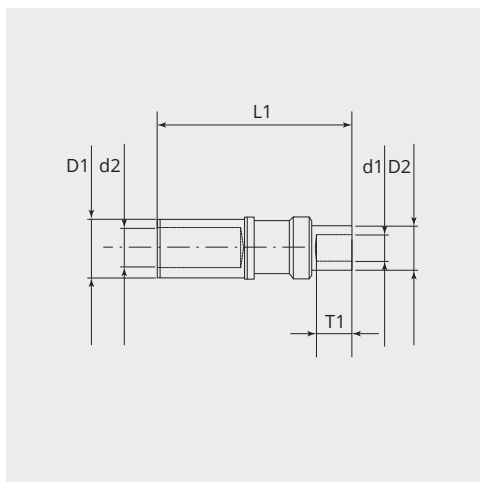
Connection type: Crimp

Wire section [mm<sup>2</sup>]: 16

Wire section [AWG]: 4 - 3

Stripping length [mm]: 13

## DIMENSIONS



## DIMENSIONS

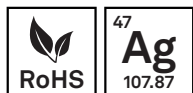
|            |      |
|------------|------|
| D1 Ø [mm]: | 11   |
| D2 Ø [mm]: | 9.3  |
| d1 Ø [mm]: | 7    |
| d2 Ø [mm]: | 5.7  |
| L1 [mm]:   | 41   |
| T1 [mm]:   | 12.2 |

## Socket contact size 4, 16mm<sup>2</sup>

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

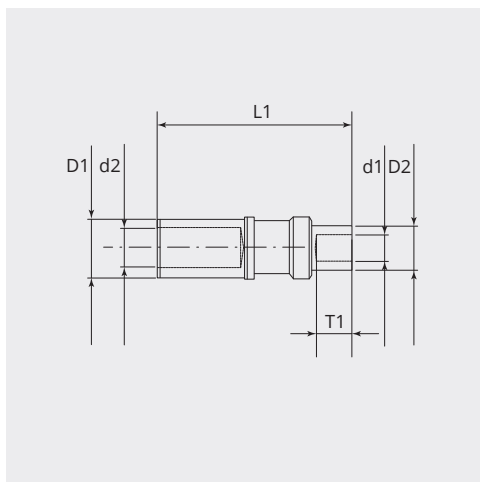
Protective layer: Silver plated, 3.5µm

Connection type: Crimp

Wire section [mm<sup>2</sup>]: 16

Stripping length [mm]: 13

## DIMENSIONS



## DIMENSIONS

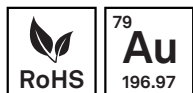
|            |      |
|------------|------|
| D1 Ø [mm]: | 11   |
| D2 Ø [mm]: | 9.3  |
| d1 Ø [mm]: | 6.2  |
| d2 Ø [mm]: | 5.7  |
| L1 [mm]:   | 41   |
| T1 [mm]:   | 12.2 |

## Socket contact size 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

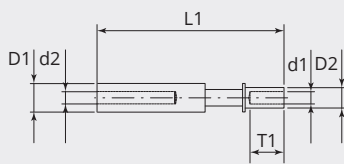
Connection type: Crimp

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  |

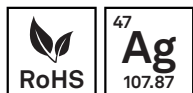


## Socket contact size 4, 6.0mm<sup>2</sup>

Item number: 10-903-4-6G10

Product weight (kg): 0.0153 kg

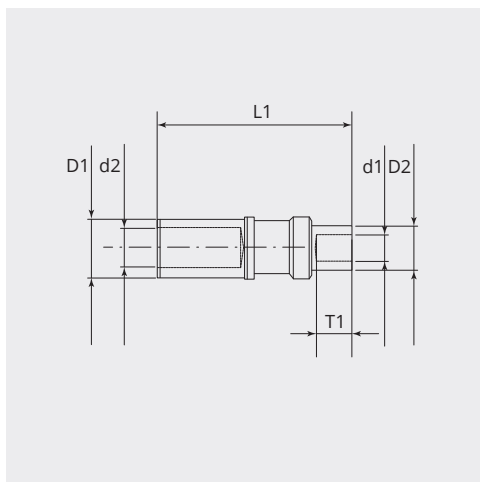
Packing unit:



### 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 <sup>2</sup> ]:  | 6                    |
| Wire section [AWG]:               | 8                    |
| Stripping length [mm]:            | 9                    |

## DIMENSIONS



## DIMENSIONS

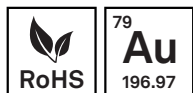
|            |     |
|------------|-----|
| D1 Ø [mm]: | 11  |
| D2 Ø [mm]: | 5.2 |
| d1 Ø [mm]: | 3.6 |
| d2 Ø [mm]: | 5.7 |
| L1 [mm]:   | 41  |
| T1 [mm]:   | 8.5 |

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

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

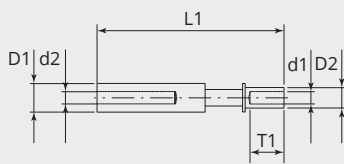
Connection type: Crimp

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

Wire section [AWG]: 22 - 18

Stripping length [mm]: 9

## DIMENSIONS



## DIMENSIONS

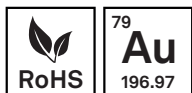
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 3.35 |
| d1 Ø [mm]: | 1.45 |
| d2 Ø [mm]: | 2.4  |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

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

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

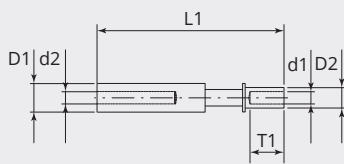
Connection type: Crimp

Wire section [mm<sup>2</sup>]: 6

Wire section [AWG]: 10

Stripping length [mm]: 9

## DIMENSIONS



## DIMENSIONS

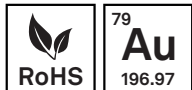
|            |      |
|------------|------|
| D1 Ø [mm]: | 4.8  |
| D2 Ø [mm]: | 4.75 |
| d1 Ø [mm]: | 3.5  |
| d2 Ø [mm]: | 2.4  |
| L1 [mm]:   | 38   |
| T1 [mm]:   | 8.5  |

## 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

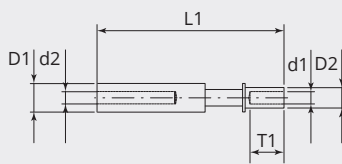
Protective layer: Gold plated, 0.5µm

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  |