

# Receptacle with flange

Series GR

Item number: GR321-24-9PN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 24             |
| Contact type:                             | Pin            |
| Number of coding options:                 | 4              |
| Number of contacts:                       | 2              |
| Number of contacts, size 4:               | 2              |
| 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. 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

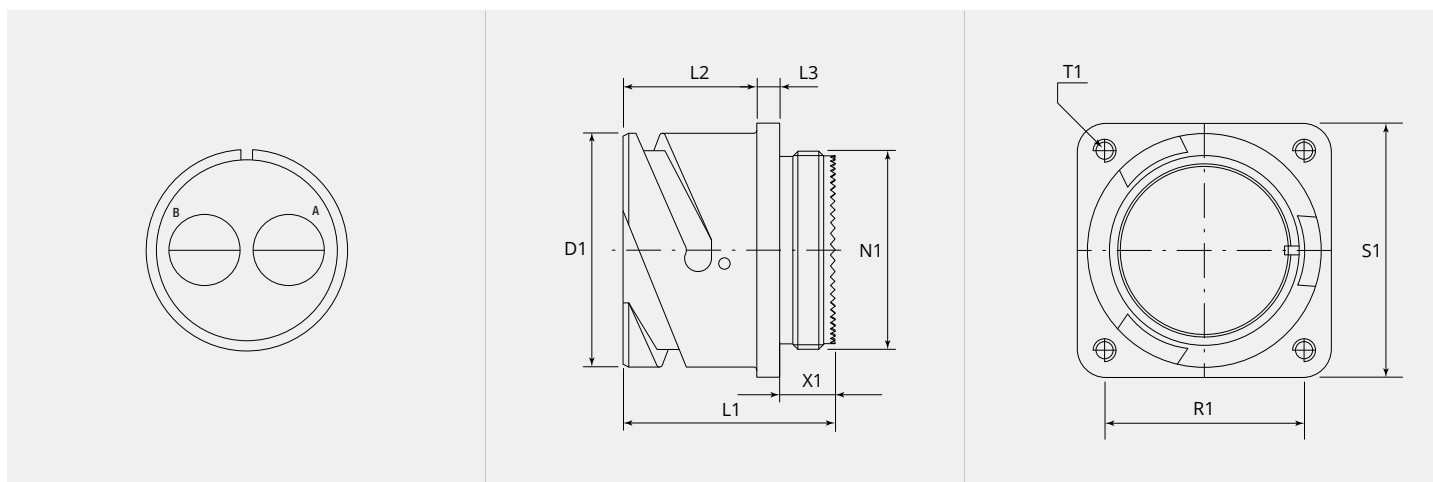
|                                            |     |
|--------------------------------------------|-----|
| Size 4 - rated current (continuous) [A]:   | 80  |
| Size 4 - maximum current (short-term) [A]: | 135 |
| Size 4 - test current [A]:                 | 110 |

## STANDARDS

Fire protection class EN 45545-2:

R23/HL3

## 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

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

Item number: 10-660-4-16G10

Product weight (kg): 0.0136 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                   |                      |
|-----------------------------------|----------------------|
| Contact type:                     | Pin                  |
| 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  |
| D3 Ø [mm]: | 5.7  |
| d1 Ø [mm]: | 7    |
| L1 [mm]:   | 41   |
| T1 [mm]:   | 12.2 |

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

Item number: 10-660-4-16G62

Product weight (kg): 0.0154 kg

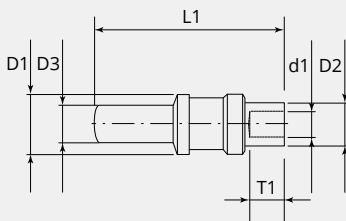
Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                   |                      |
|-----------------------------------|----------------------|
| Contact type:                     | Pin                  |
| 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  |
| D3 Ø [mm]: | 5.7  |
| d1 Ø [mm]: | 6.2  |
| L1 [mm]:   | 41   |
| T1 [mm]:   | 12.2 |

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

Item number: 10-660-4-6G10

Product weight (kg): 0.012 kg

Packing unit:



## MECHANICAL PROPERTIES CONTACTS

|                                   |                      |
|-----------------------------------|----------------------|
| Contact type:                     | Pin                  |
| 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 |
| D3 Ø [mm]: | 5.7 |
| d1 Ø [mm]: | 3.6 |
| L1 [mm]:   | 41  |
| T1 [mm]:   | 8.5 |

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

Item number: 10-660-4-10G10

Product weight (kg): 0.0127 kg

Packing unit:



### MECHANICAL PROPERTIES CONTACTS

|                                  |                      |
|----------------------------------|----------------------|
| Contact type:                    | Pin                  |
| 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  |
| D3 Ø [mm]: | 5.7  |
| d1 Ø [mm]: | 4.6  |
| L1 [mm]:   | 41   |
| T1 [mm]:   | 12.2 |