

# Receptacle with flange

Series GS

Item number: GS321-18-19PN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 18             |
| Contact type:                             | Pin            |
| Number of coding options:                 | 2              |
| Number of contacts:                       | 10             |
| Number of contacts, size 16:              | 10             |
| 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. 4.0 |
| Coupling-torque to open [Nm]: | min. 1.0 |

## 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 |

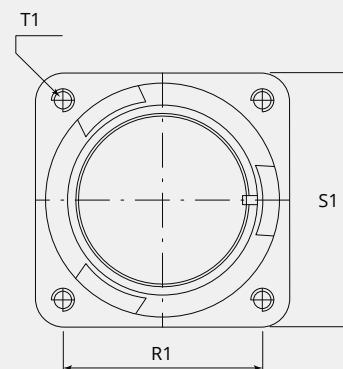
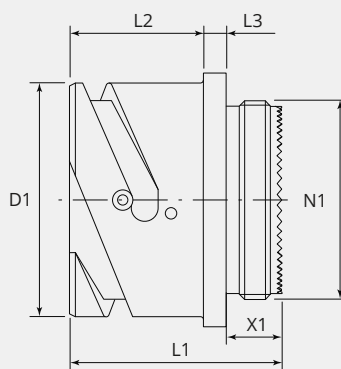
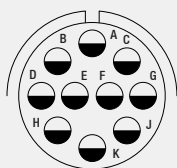
## ELECTRICAL PROPERTIES CONTACTS

|                                             |    |
|---------------------------------------------|----|
| Size 16 - rated current (continuous) [A]:   | 13 |
| Size 16 - maximum current (short-term) [A]: | 22 |
| Size 16 - test current [A]:                 | 20 |

Fire protection class EN 45545-2:

R23/HL3

## DIMENSIONS



## DIMENSIONS

|            |               |
|------------|---------------|
| D1 Ø [mm]: | 31            |
| L1 [mm]:   | 38.8          |
| L2 [mm]:   | 23.1          |
| L3 [mm]:   | 4.0           |
| N1:        | 1"-20 UNEF 2A |
| T1 [mm]:   | 3.2           |
| X1 [mm]:   | 9.0           |
| S1 [mm]:   | 35            |
| R1 [mm]:   | 27            |

- 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