

# Plug with bayonet coupling nut, for EMI applications

Series GS

Item number: GS601-18-8SN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 18             |
| Contact type:                             | Socket         |
| Number of coding options:                 | 2              |
| Number of contacts:                       | 8              |
| Number of contacts, size 12:              | 1              |
| Number of contacts, size 16:              | 7              |
| 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            |

## MECHANICAL PROPERTIES

|                               |            |
|-------------------------------|------------|
| Operation temperature [°C]:   | -55 - +90  |
| Temperature shock [°C]:       | -55 - +125 |
| 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 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 |

|                                   |         |
|-----------------------------------|---------|
| Fire protection class EN 45545-2: | R23/HL3 |
|-----------------------------------|---------|

## DIMENSIONS



## DIMENSIONS

|                   |               |
|-------------------|---------------|
| <b>D1 Ø [mm]:</b> | 37            |
| <b>L1 [mm]:</b>   | 36.0          |
| <b>N1:</b>        | 1"-20 UNEF 2A |
| <b>X1 [mm]:</b>   | 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