

# Plug with rubber coated coupling nut, for EMI applications

Series GS

Item number: GS604-28-1PN-EAA

Packing unit: 1



## MECHANICAL PROPERTIES

|                                           |                |
|-------------------------------------------|----------------|
| Size:                                     | 28             |
| Contact type:                             | Pin            |
| Number of coding options:                 | 4              |
| Number of contacts:                       | 9              |
| Number of contacts, size 8H:              | 3              |
| Number of contacts, size 12:              | 6              |
| 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. 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

|                                    |              |
|------------------------------------|--------------|
| Contact numbers:                   | A, J, E      |
| 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 |
| Contact numbers:                   | Rest         |
| 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 index:                     | MIL-DTL-5015 |

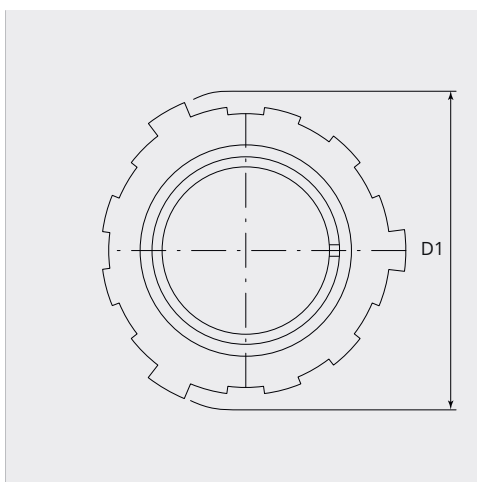
## ELECTRICAL PROPERTIES CONTACTS

|                                             |    |
|---------------------------------------------|----|
| Size 8H - rated current (continuous) [A]:   | 56 |
| Size 8H - maximum current (short-term) [A]: | 90 |
| Size 8H - test current [A]:                 | 72 |
| Size 12 - rated current (continuous) [A]:   | 23 |
| Size 12 - maximum current (short-term) [A]: | 41 |
| Size 12 - test current [A]:                 | 35 |

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