



38999 Connector with Reinforced Sealing

Resin sealed for harsh environment applications. Up to 1000 times higher sealing than standard version.

- Wide availability** ■ All 38999 layouts.
Aluminum, including RoHS Black Zinc Nickel.
Composite for ultra low weight.
Titanium or stainless steel for outdoor application.
- Fully intermateable** ■ 8LT with MS27466 or HE308.
8ST with VG96912 or JN1003.
8D with D38999, EN3645 or BACC63CT/DB.
- Temperature** ■ Fast temperature change: from -55°C to 125°C.
Compatible with wave or iron soldering.
- Contacts** ■ PC tail or solder contacts.
Male or female contacts.
Tin plated version available.
Shoulderless contact available, consult us.

Not QPL registered.



Description

- Reinforced sealed receptacle with male or female straight PC tail contacts
- Strong sealing performance: 10^{-7} atm.cm³/s
- Designed for unpressurized area
- 125°C max (operational temperature)
- 100 % scoop proof
- Full RoHS solution
- High density connectors
- Weight saving compared to hermetic version
- Other SOURIAU ranges on request

Technical features

Mechanical

- **Shell plating:**
 - . 8LT & 8ST aluminum shell:
 - . Black zinc nickel (Z)
 - . Olive drab cadmium (B)
 - . Nickel (F)
 - . 8D aluminum shell:
 - . Black zinc nickel (Z)
 - . Olive drab cadmium (W)
 - . Nickel (F)
 - . 8D composite shell:
 - . Olive drab cadmium (J)
 - . Nickel (M)
 - . 8D stainless steel shell:
 - . Nickel (S)
 - . Passivated (K)
 - . 8D titanium shell:
 - . Nickel (TF)
 - . Without plating (TT)
- **Insulator:** Thermoplastic
- **Interfacial seal:** Silicone elastomer
- **Contacts:** Copper alloy
- **Contacts plating:** Gold over nickel plated
- **Endurance:** 500 mating/unmating operations

Electrical

- **Contact resistance:**

| Contacts size | 26 | 22 | 20 | 16 | 12 | 8 | 4 |
|---------------|----|------|-----|-----|-----|---|---|
| Resistance mΩ | 16 | 14.6 | 7.3 | 3.8 | 3.5 | 3 | 2 |

- **Shielding:**
 - . 8LT: . 90db - 100MHz
 - . . 50db - 10GHz
 - . 8ST: . 70 db - 100MHz
 - . 8D: . F; S; TF: 65db - 10GHz
 - . . F; Z; W; J; M: 85db - 1GHz
 - . . Z; W: 50db - 10GHz
 - . . K; TT: 45db - 10GHz
- **Shell continuity:**
 - . 8LT: . Z; B: 2.5mΩ
 - . . F: 1mΩ
 - . 8ST: . Z; B: 2.5mΩ
 - . . F: 1mΩ
 - . 8D: . F; TF; S: 1mΩ
 - . . Z; ZC; W: 2.5mΩ
 - . . J; M: 3mΩ
 - . . JVS: 5mΩ
 - . . TT; K: 10mΩ

Environmental

- **Temperature range:** -55°C +125°C
- **Sealing (initial):** 10^{-7} atm.cm³/s
- **Salt spray:**
 - . 8LT: . B; Z: 500h
 - . . F: 48h
 - . 8ST: . B; Z: 500h
 - . . F: 48h
 - . 8D: . F; S; TF: 48h
 - . . Z; W; JVS; TT; K; S: 500h
 - . . J; M: 2000h

Ordering information

8LT part number

| | | | | | | | | |
|---|-------------|----------|----------|-----------|----------|-----------|----------|----------|
| Basic Series | 8LTR | 0 | C | 09 | Z | 35 | P | N |
| Shell style | | | | | | | | |
| 0: Square flange receptacle | | | | | | | | |
| 1: In line receptacle | | | | | | | | |
| 2: Short square flange receptacle not accepting backshell | | | | | | | | |
| 3: Square flange receptacle, rear mounting | | | | | | | | |
| 7: Jam nut receptacle | | | | | | | | |
| Type | | | | | | | | |
| C: Receptacle with short PC tail (male and female #22D, #20, #16) | | | | | | | | |
| L: Connector with long PC tail (male and female #22D) | | | | | | | | |
| S: Connector with specific PC Tail (male and female #22D) | | | | | | | | |
| M: Connector with medium PC tail (male #22D) | | | | | | | | |
| P: Connector with solder cup: . Pin: #22D & #16; Socket: #12 | | | | | | | | |
| . Socket: #22D & #16; Pin: #12 - Please consult us | | | | | | | | |
| Shell size | | | | | | | | |
| 09, 11, 13, 15, 17, 19, 21, 23, 25 | | | | | | | | |
| Plating | | | | | | | | |
| B: Olive green cadmium | | | | | | | | |
| F: Nickel | | | | | | | | |
| Z: Black zinc nickel | | | | | | | | |
| Contact layouts | | | | | | | | |
| See page 5 | | | | | | | | |
| Contact type | | | | | | | | |
| P: Male | | | | | | | | |
| S: Female | | | | | | | | |
| Orientation | | | | | | | | |
| N, A, B, C, D (Orientation B & C not developed for shell size 9) | | | | | | | | |

8ST part number

| | | | | | | | | |
|--|-------------|----------|----------|-----------|----------|-----------|----------|----------|
| Basic series | 8STR | 0 | C | 10 | Z | 35 | P | N |
| Shell style | | | | | | | | |
| 0: Square flange receptacle | | | | | | | | |
| 1: In line receptacle | | | | | | | | |
| 2: Square flange receptacle, not accepting backshell | | | | | | | | |
| 3: Square flange receptacle, rear mounting | | | | | | | | |
| 7: Jam nut receptacle | | | | | | | | |
| Type | | | | | | | | |
| L: Connector with long PC tail contacts | | | | | | | | |
| M: Connector with medium PC tail contacts | | | | | | | | |
| C: Connector with short PC tail contacts | | | | | | | | |
| Shell size | | | | | | | | |
| 08, 10, 12, 14, 16, 18, 20, 22, 24 | | | | | | | | |
| Plating | | | | | | | | |
| Z: Black zinc nickel | | | | | | | | |
| F: Nickel | | | | | | | | |
| G: Olive green cadmium | | | | | | | | |
| Contact layouts | | | | | | | | |
| See page 5 | | | | | | | | |
| Contact type | | | | | | | | |
| P: Pin | | | | | | | | |
| S: Socket | | | | | | | | |
| Orientation | | | | | | | | |
| N, A, B, C, D (Orientation B & C not developed for shell size 8) | | | | | | | | |

Ordering information

8D part number

| | | | | | | | | |
|---------------------------------|---|---|---|----|---|----|---|---|
| Basic Series: | 8DR | 0 | C | 09 | Z | 35 | P | N |
| Shell type: | <ul style="list-style-type: none"> 0: Square flange receptacle 1: In line receptacle (8D aluminum only) 7: Jam nut receptacle (except 8D Composite) | | | | | | | |
| Contact type: | <ul style="list-style-type: none"> C: Receptacle with short PC tail (male and female #22D, #20, #16, #12) L: Connector with long PC tail (male and female #22D) S: Connector with specific PC Tail (male and female #22D) M: Connector with medium PC tail (male #22D) P: Connector with solder cup: . Pin: #22D, #20 & #16; Socket: #12 . Socket: #22D, #20 & #16; Pin: #12 - Please consult us | | | | | | | |
| Shell size | 09, 11, 13, 15, 17, 19, 21, 23, 25 | | | | | | | |
| Aluminum plating: | <ul style="list-style-type: none"> F: Nickel Z: Black zinc nickel W: Olive drab cadmium | | | | | | | |
| Composite plating: | <ul style="list-style-type: none"> J: Olive drab cadmium M: Nickel | | | | | | | |
| Stainless steel plating: | <ul style="list-style-type: none"> K: Passivated S: Nickel | | | | | | | |
| Titanium plating: | <ul style="list-style-type: none"> TT: Without plating TF: Nickel | | | | | | | |
| Contact layout | See page 5 | | | | | | | |
| Contact type: | <ul style="list-style-type: none"> P: Male S: Female | | | | | | | |
| Orientation | N, A, B, C, D, E | | | | | | | |

Double flange receptacle available, please consult us.

Receptacle with integrated clinch nuts or helicoils available, please consult us.

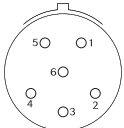
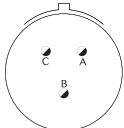
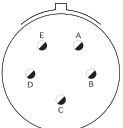
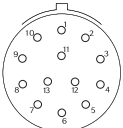
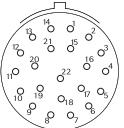
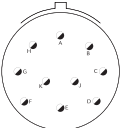
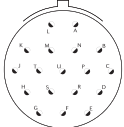
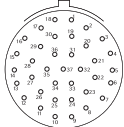
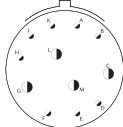
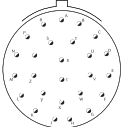
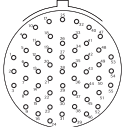
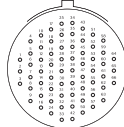
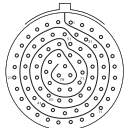
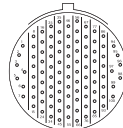
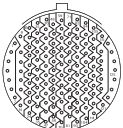
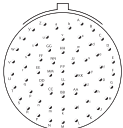



Contacts without shoulder available, please consult us.

Dimensions

See «8LT Series / MIL-DTL-38999 Series I», «8ST Series / VG96912 & JN1003» and «8D Series / MIL-DTL-38999 Series III» catalogs.

Contact layouts

For C or L contact type. For other contact type or layouts, please consult us.

| | | | |
|--|---|--|--|
| <p>08 or 09 / A</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>35</p>  <p>6#22D Service M</p> </div> <div style="text-align: center;"> <p>98</p>  <p>3#20 Service I</p> </div> </div> | <p>10 or 11 / B</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>05</p>  <p>5#20 Service I</p> </div> <div style="text-align: center;"> <p>35</p>  <p>13#22D Service M</p> </div> </div> | <p>12 or 13 / C</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>35</p>  <p>22#22D Service M</p> </div> <div style="text-align: center;"> <p>98</p>  <p>10#20 Service I</p> </div> </div> | |
| <p>14 or 15 / D</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>18</p>  <p>18#20 Service I</p> </div> <div style="text-align: center;"> <p>35</p>  <p>37#22D Service M</p> </div> <div style="text-align: center;"> <p>97</p>  <p>4#16 8#20 Service I</p> </div> </div> | <p>16 or 17 / E</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>26</p>  <p>26#20 Service I</p> </div> <div style="text-align: center;"> <p>35</p>  <p>55#22D Service M</p> </div> </div> | <p>18 or 19 / F</p> <div style="text-align: center;"> <p>35</p>  <p>66#22D Service M</p> </div> | |
| <p>20 or 21 / G</p> <div style="text-align: center;"> <p>35</p>  <p>79#22D Service M</p> </div> | <p>22 or 23 / H</p> <div style="text-align: center;"> <p>35</p>  <p>100#22D Service M</p> </div> | <p>24 or 25 / J</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>35</p>  <p>128#22D Service M</p> </div> <div style="text-align: center;"> <p>61</p>  <p>61#20 Service I</p> </div> </div> | <ul style="list-style-type: none">  Contact #22D  Contact #20  Contact #16 |

Your local contact

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