



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Stainless Steel
- Shell Plating : Nickel
- Insulator : Thermoplastic
- Contacts : Copper Alloy
- Seals & Grommet : Silicon Elastomer
- Contact Plating : Gold over copper Alloy 0.8µm minimum
- Durability : 500 Mating cycles
- Delivered without Souriau contacts
- Temperature Range : -65°C to +200°C
- Salt Spray : 500 hours
- Mass : 74.77 g ± 10%

| Connector dimension |               |
|---------------------|---------------|
| Dim                 | Nominal       |
| P                   | 3.25±0.2      |
| PP                  | 4.93±0.2      |
| R1                  | 31.75         |
| R2                  | 29.36         |
| S                   | 39.7±0.3      |
| V                   | 20.07+0/-1.25 |
| W                   | 2.1/3.2       |
| Z                   | 31.5 Max      |
| VV THREAD           | M31x1-6g      |

SOURIAU shall not be liable for any non-conformity or damage due to a use of the Products which does not comply with the Specifications issued by either of the Parties or by a third party (professional recommendation, technical notice.)

|         |                             |
|---------|-----------------------------|
| Country | Jurisdiction & Control List |
| FR      | Not Listed                  |

**PN: 8D021S39PNL**

|                |   |                                |   |
|----------------|---|--------------------------------|---|
| A              | 03-11-2016                                  | First Release                  |   |
| ISS            | DATE  | Latest modification - by       | MOD N°  |
| Designed By:   |   | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b>   | <b>Stainless Steel Receptacle 8D series</b> |                                |   |
| SCALE          | NA  | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
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| FORMAT         | <b>A3</b>                                   |                                | <b>SOURIAU DRG N° 8D021S39PNL-C</b>   |
|                |   |                                | SHEET<br>1/2  |

|                |                          |   |   |    |   |    |   |   |   |                                 |
|----------------|--------------------------|---|---|----|---|----|---|---|---|---------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 21 | S | 39 | P | N | L | Delivered W/O Contacts          |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   |   | ORIENTATION : N                 |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   |   | CONTACT TYPE : PIN(500 Matings) |
| SHELL SIZE :   | 21                       |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 21-39          |
| PLATING :      | S = Nickel               |   |   |    |   |    |   |   |   |                                 |

Contact Layout



| Contacts<br>(Insert arrangement 21-39) |              |              |                     |             |             |
|--|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID                    | Location     |              | Contact position ID | Location    |             |
|  | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm) | Y-axis (mm) |
| A                                      | +065 (1.65)  | +411 (10.44) | X                   | +000 (0.00) | +295 (7.49) |
| B                                      | +189 (4.80)  | +371 (9.42)  | Y                   | +126 (3.20) | +256 (6.50) |
| C                                      | +294 (7.47)  | +294 (7.47)  | Z                   | +232 (5.89) | +179 (4.55) |
| D                                      | +371 (9.42)  | +189 (4.80)  | a                   | +280 (7.11) | +057 (1.45) |
| E                                      | -411 (10.44) | +065 (1.65)  | b                   | -280 (7.11) | -074 (1.88) |
| F                                      | +411 (10.44) | -065 (1.65)  | c                   | +217 (5.51) | -189 (4.80) |
| G                                      | +371 (9.42)  | -189 (4.80)  | d                   | +112 (2.84) | -265 (6.73) |
| H                                      | +294 (7.47)  | -294 (7.47)  | e                   | -112 (2.84) | -265 (6.73) |
| J                                      | +189 (4.80)  | -371 (9.42)  | f                   | -217 (5.51) | -189 (4.80) |
| K                                      | +065 (1.65)  | -411 (10.44) | g                   | -280 (7.11) | -074 (1.88) |
| L                                      | -065 (1.65)  | -411 (10.44) | h                   | -280 (7.11) | +057 (1.45) |
| M                                      | -189 (4.80)  | -371 (9.42)  | i                   | -232 (5.89) | +179 (4.55) |
| N                                      | -294 (7.47)  | -294 (7.47)  | l                   | -126 (3.20) | +256 (6.50) |
| P                                      | -371 (9.42)  | -189 (4.80)  | k                   | +000 (0.00) | +164 (4.17) |
| R                                      | -411 (10.44) | -065 (1.65)  | m                   | +114 (2.90) | +048 (1.22) |

| Contacts<br>(Insert arrangement 21-39) |              |              |                     |             |             |
|--|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID                    | Location     |              | Contact position ID | Location    |             |
|  | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm) | Y-axis (mm) |
| S                                      | -411 (10.44) | +065 (1.65)  | n                   | +106 (2.69) | -107 (2.72) |
| T                                      | -371 (9.42)  | +189 (4.80)  | p                   | +000 (0.00) | -189 (4.80) |
| U                                      | -294 (7.47)  | +294 (7.47)  | q                   | -106 (2.69) | -107 (2.72) |
| V                                      | -189 (4.80)  | +371 (9.42)  | r                   | -114 (2.90) | +048 (1.09) |
| W                                      | -065 (1.65)  | +411 (10.44) | ---                 | ---         | ---         |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location   | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|--------------------|------------|
| 21         | -39             | 2<br>37            | 16<br>20      | I              | f, m<br>All others | MS20055-39 |

Panel Cutout



| Dim | Nominal    |
|-----|------------|
| ØA  | 36.12 min  |
| ØAA | 32.16 min  |
| R1  | 31.75      |
| ØT  | 3.25 ±0.13 |

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| FORMAT         | <b>SOURIAU DRG N° 8D021S39PNL-C</b>         |                                | SHEET<br>2/2  |