



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Aluminium
- Shell Plating : Black Zinc 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 +175°C
- Salt Spray : 500 hours
- Mass : 30.28 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: 8D021Z48PCL**

|                |                                       |                                |   |
|----------------|---------------------------------------|--------------------------------|---|
| A              | 02-11-2016                            | First Release                  |   |
| ISS            | DATE                                  | Latest modification - by       | MOD N°  |
| Designed By:   |                                       | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b>   | <b>Aluminium 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° 8D021Z48PCL-C</b><br>SHEET 1/2  |

|                |                          |   |   |    |   |    |   |   |   |                                 |
|----------------|--------------------------|---|---|----|---|----|---|---|---|---------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 21 | Z | 48 | P | C | L | Delivered W/O Contacts          |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   |   | ORIENTATION : C                 |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   |   | CONTACT TYPE : PIN(500 Matings) |
| SHELL SIZE :   | 21                       |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 21-48          |
| PLATING :      | Z = Black Zinc Nickel    |   |   |    |   |    |   |   |   |                                 |

Contact Layout



(Inactive for new design for MIL-DTL-38999. For new design, use arrangement no. 21-76.)

| Contacts<br>(Insert arrangement 21-75) |             |             |
|--|-------------|-------------|
| Contact position ID                    | Location    |             |
|  | X axis      | Y axis      |
| A                                      | +180 (4.57) | +180 (4.57) |
| B                                      | +180 (4.57) | -180 (4.57) |
| C                                      | -180 (4.57) | -180 (4.57) |
| D                                      | -180 (4.57) | +180 (4.57) |

| Shell size | Arrangement no. | Number of contacts | Size contacts   | Service rating | Contact location | Standard contact |               |
|------------|-----------------|--------------------|-----------------|----------------|------------------|------------------|---------------|
|            |                 |                    |                 |                |                  | Pin              | Socket        |
| 21         | -75             | 4                  | 8<br>(see note) | Twinax         | All              | M39029/90-529    | M39029/91-530 |

Panel Cutout



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

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| NA             |                                       |                                |   |
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| FORMAT         | <b>SOURIAU DRG N° 8D021Z48PCL-C</b>   |                                | SHEET<br>2/2  |