



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Composite
- Shell Plating : Without Plating
- 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 : 2000 hours
- Mass : 36.1 g ± 10%

| Connector dimension |               |
|---------------------|---------------|
| Dim                 | Nominal       |
| P                   | 3.91±0.2      |
| PP                  | 6.15±0.2      |
| R1                  | 38.1          |
| R2                  | 34.93         |
| S                   | 46±0.3        |
| V                   | 20.07+0/-1.25 |
| W                   | 2.1/3.2       |
| Z                   | 31.5 Max      |
| VV THREAD           | M37x1-6g      |

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.)

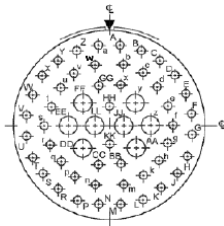
|         |                             |
|---------|-----------------------------|
| Country | Jurisdiction & Control List |
| FR      | Not Listed                  |

**PN: 8D025X04PEL**

|                |                                       |                                |   |
|----------------|---------------------------------------|--------------------------------|---|
| A              | 08-10-2016                            | First Release                  |   |
| ISS            | DATE                                  | Latest modification - by       | MOD N°  |
| Designed By:   |                                       | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b>   | <b>Composite 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° 8D025X04PEL-C</b>   |
|                |                                       |                                | SHEET<br>1/2  |

|                |                          |   |   |    |   |    |   |   |   |                                 |
|----------------|--------------------------|---|---|----|---|----|---|---|---|---------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 25 | X | 04 | P | E | L | Delivered W/O Contacts          |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   |   | ORIENTATION : E                 |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   |   | CONTACT TYPE : PIN(500 Matings) |
| SHELL SIZE :   | 25                       |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 25-04          |
| PLATING :      | X = Without Plating      |   |   |    |   |    |   |   |   |                                 |

Contact Layout



| Contacts<br>(Insert arrangement 25-4) |              |              |                     |              |              |
|---------------------------------------|--------------|--------------|---------------------|--------------|--------------|
| Contact position ID                   | Location     |              | Contact position ID | Location     |              |
|                                       | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm)  | Y-axis (mm)  |
| A                                     | +069 (1.75)  | +531 (13.49) | f                   | +412 (10.46) | +000 (0.00)  |
| B                                     | +203 (5.16)  | +495 (12.57) | g                   | +377 (9.58)  | -132 (3.35)  |
| C                                     | +324 (8.23)  | +425 (10.80) | h                   | +311 (7.90)  | -251 (6.38)  |
| D                                     | +424 (10.77) | +326 (8.28)  | k                   | +212 (5.38)  | -344 (8.74)  |
| E                                     | +493 (12.52) | +205 (5.21)  | m                   | +086 (2.18)  | -397 (10.08) |
| F                                     | +531 (13.49) | +069 (1.75)  | n                   | -086 (2.18)  | -397 (10.08) |
| G                                     | +531 (13.49) | -069 (1.75)  | p                   | -212 (5.38)  | -344 (8.74)  |
| H                                     | +493 (12.52) | -205 (5.21)  | q                   | -311 (7.90)  | -251 (6.38)  |
| J                                     | +424 (10.77) | -326 (8.28)  | r                   | -377 (9.58)  | -132 (3.35)  |
| K                                     | +324 (8.23)  | -425 (10.80) | s                   | -412 (10.46) | +000 (0.00)  |
| L                                     | +203 (5.16)  | -495 (12.57) | t                   | -377 (9.58)  | +132 (3.35)  |
| M                                     | +069 (1.75)  | -531 (13.49) | u                   | -311 (7.90)  | +251 (6.38)  |
| N                                     | -069 (1.75)  | -531 (13.49) | v                   | -212 (5.38)  | +344 (8.74)  |
| P                                     | -203 (5.16)  | -495 (12.57) | w                   | -086 (2.18)  | +397 (10.08) |
| R                                     | -324 (8.23)  | -425 (10.80) | x                   | +069 (1.75)  | +263 (6.68)  |
| S                                     | -424 (10.77) | -326 (8.28)  | y                   | +172 (4.37)  | +149 (3.78)  |
| T                                     | -493 (12.52) | -205 (5.21)  | z                   | +258 (6.55)  | +000 (0.00)  |
| U                                     | -531 (13.49) | -069 (1.75)  | AA                  | +172 (4.37)  | -149 (3.78)  |
| V                                     | -531 (13.49) | +069 (1.75)  | BB                  | +069 (1.75)  | -263 (6.68)  |
| W                                     | -493 (12.52) | +205 (5.21)  | CC                  | -069 (1.75)  | -263 (6.68)  |

| Contacts<br>(Insert arrangement 25-4) |              |              |                     |             |             |
|---------------------------------------|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID                   | Location     |              | Contact position ID | Location    |             |
|                                       | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm) | Y-axis (mm) |
| X                                     | -424 (10.77) | +326 (8.28)  | DD                  | -172 (4.37) | -149 (3.78) |
| Y                                     | -324 (8.23)  | +425 (10.80) | EE                  | -258 (6.55) | +000 (0.00) |
| Z                                     | -203 (5.16)  | +495 (12.57) | FF                  | -172 (4.37) | +149 (3.78) |
| a                                     | -069 (1.75)  | +531 (13.49) | GG                  | -069 (1.75) | +263 (6.68) |
| b                                     | +086 (2.18)  | +397 (10.08) | HH                  | +000 (0.00) | +132 (3.35) |
| c                                     | +212 (5.38)  | +344 (8.74)  | JJ                  | +086 (2.18) | +000 (0.00) |
| d                                     | +311 (7.90)  | +251 (6.38)  | KK                  | +000 (0.00) | -132 (3.35) |
| e                                     | +377 (9.58)  | +132 (3.35)  | LL                  | -086 (2.18) | +000 (0.00) |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location             | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------------------|------------|
| 25         | -4              | 8                  | 16            | I              | y, z, AA, DD, EE, FF, LL, JJ | MS20057-4  |
|            |                 | 48                 | 20            |                | All others                   |            |

Panel Cutout



| Dim | Nominal    |
|-----|------------|
| ØA  | 42.47 min  |
| ØAA | 37.69 min  |
| R1  | 38.1       |
| ØT  | 3.81 ±0.13 |

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| NA             |                                       | ±--                        | <b>859</b>  |
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| <b>A3</b>      |                                       |                            | <b>2/2</b>  |