



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Composite
- 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 with Souriau contacts and Accessories
- Temperature Range : -65°C to +200°C
- Salt Spray : 2000 hours

| 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'                  | 18.7+1.4/-0 |
| W'                  | 2.1/4.35    |
| Z'                  | 32 Max      |
| VV THREAD           | M37x1-6g    |

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

**PN: 8D025M90SB**

|   |                                    |                                |                               |
|---|------------------------------------|--------------------------------|-------------------------------|
| A   | 17-10-2016                         | First Release                  |                               |
| ISS   | DATE                               | Latest modification - by       | MOD N°                        |
| Designed By:  |                                    | Date:                          | <b>CUSTOMER DRAWING</b>       |
| <b>TITLE</b>  |                                    | Composite Receptacle 8D series |                               |
| SCALE   | NA                                 | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b> |
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| FORMAT  | <b>SOURIAU DRG N° 8D025M90SB-C</b> |                                | SHEET<br>1/2                  |

|                |                          |   |   |    |   |    |   |   |                                    |
|----------------|--------------------------|---|---|----|---|----|---|---|------------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 25 | M | 90 | S | B | ORIENTATION : B                    |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   | CONTACT TYPE : SOCKET(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   | CONTACT LAYOUT : 25-90             |
| SHELL SIZE :   | 25                       |   |   |    |   |    |   |   |                                    |
| PLATING :      | M = Nickel               |   |   |    |   |    |   |   |                                    |

Contact Layout



(Inactive for new design for MIL-DTL-38999. For new design, use arrangement no. 25-91.)

| Contacts<br>(Insert arrangement 25-90) |              |              |                     |              |              |
|--|--------------|--------------|---------------------|--------------|--------------|
| Contact position ID                    | Location     |              | Contact position ID | Location     |              |
|  | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm)  | Y-axis (mm)  |
| A                                      | +065 (1.65)  | +533 (13.54) | a                   | +404 (10.26) | +125 (3.18)  |
| B                                      | +275 (6.99)  | +466 (11.84) | b                   | +437 (11.10) | +000 (0.00)  |
| C                                      | +420 (10.67) | +337 (8.56)  | c                   | +404 (10.26) | -125 (3.18)  |
| D                                      | +490 (12.45) | +227 (5.77)  | d                   | +314 (7.98)  | -221 (5.61)  |
| E                                      | +531 (13.49) | +093 (2.36)  | e                   | +245 (6.22)  | -337 (8.56)  |
| F                                      | +531 (13.49) | -093 (2.36)  | f                   | +136 (3.45)  | -424 (10.77) |
| G                                      | +490 (12.45) | -227 (5.77)  | g                   | +000 (0.00)  | -395 (10.03) |
| H                                      | +420 (10.67) | -337 (8.56)  | h                   | -136 (3.45)  | -424 (10.77) |
| J                                      | +275 (6.99)  | -466 (11.84) | j                   | -245 (6.22)  | -337 (8.56)  |
| K                                      | +065 (1.65)  | -533 (13.54) | k                   | -314 (7.98)  | -221 (5.61)  |
| L                                      | -065 (1.65)  | -533 (13.54) | l                   | -404 (10.26) | -125 (3.18)  |
| M                                      | -275 (6.99)  | -466 (11.84) | m                   | -437 (11.10) | +000 (0.00)  |
| N                                      | -420 (10.67) | -337 (8.56)  | n                   | -404 (10.26) | +125 (3.18)  |
| P                                      | -490 (12.45) | -227 (5.77)  | p                   | -314 (7.98)  | +221 (5.61)  |
| R                                      | -531 (13.49) | -093 (2.36)  | r                   | -245 (6.22)  | +337 (8.56)  |
| S                                      | -531 (13.49) | +093 (2.36)  | s                   | -136 (3.45)  | +424 (10.77) |
| T                                      | -490 (12.45) | +227 (5.77)  | t                   | +000 (0.00)  | +395 (10.03) |
| U                                      | -420 (10.67) | +337 (8.56)  | u                   | +097 (2.46)  | +265 (6.73)  |
| V                                      | -275 (6.99)  | +466 (11.84) | v                   | +180 (4.57)  | +000 (0.00)  |
| W                                      | -065 (1.65)  | +533 (13.54) | w                   | +097 (2.46)  | -265 (6.73)  |
| X                                      | +136 (3.45)  | +424 (10.77) | x                   | -097 (2.46)  | -265 (6.73)  |
| Y                                      | +245 (6.22)  | +337 (8.56)  | y                   | -180 (4.57)  | +000 (0.00)  |
| Z                                      | +314 (7.98)  | +221 (5.61)  | z                   | -097 (2.46)  | +265 (6.73)  |
|  |              |              | AA                  |              |              |

| Shell size | Arrangement no. | Number of contacts | Size of contacts | Service rating | Contact location | Standard contact |               |
|------------|-----------------|--------------------|------------------|----------------|------------------|------------------|---------------|
|            |                 |                    |                  |                |                  | Pin              | Socket        |
| 25         | -90             | 2                  | 8 (see note)     | Twinax         | W, Z             | M39029/90-529    | M39029/91-530 |
|            |                 | 4                  | 16               | I              | Y, X, Y, AA      | M39029/56-364    | M39029/56-352 |
|            |                 | 40                 | 20               | All others     |                  | M39029/56-363    | M39029/56-351 |

Panel Cutout



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

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| <b>TITLE</b>   | <b>Composite Receptacle 8D series</b> |                            |   |
| SCALE          |                                       | General linear Tolerances: | NPRDS / PROJECT   |
| NA             |                                       | ±--                        | <b>859</b>  |
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| FORMAT         | <b>SOURIAU DRG N° 8D025M90SB-C</b>    |                            | SHEET 2/2   |