



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
- Mass : 75.7 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 48 Max   |
| Z'                  | 31.5 Max |
| VV THREAD           | M37x1-6g |

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

**PN: 8D525M46BN**

|                |                                    |                                |   |
|----------------|------------------------------------|--------------------------------|---|
| A              | 07-10-2016                         | First Release                  |   |
| ISS            | DATE                               | Latest modification - by       | MOD N°  |
| Designed By:   |                                    | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b>   |                                    | Composite Plug 8D series       |   |
| SCALE          |                                    | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
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| FORMAT         | <b>SOURIAU DRG N° 8D525M46BN-C</b> |                                | SHEET<br>1/2  |
| <b>A3</b>      |                                    |                                |   |

|                |                         |   |   |    |   |    |   |   |                                    |
|----------------|-------------------------|---|---|----|---|----|---|---|------------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 25 | M | 46 | B | N | ORIENTATION : N                    |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   | CONTACT TYPE : SOCKET(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   | CONTACT LAYOUT : 25-46             |
| SHELL SIZE :   | 25                      |   |   |    |   |    |   |   |                                    |
| PLATING :      | M = Nickel              |   |   |    |   |    |   |   |                                    |

4  
3  
2  
1

**Contact Layout**



(Inactive for new design for MIL-DTL-38999. For new design, use arrangement no. 25-47.)

| 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) | m                   | -314 (7.98)  | -221 (5.61)  |
| L                   | -065 (1.65)  | -533 (13.54) | n                   | -404 (10.26) | -125 (3.18)  |
| M                   | -275 (6.99)  | -466 (11.84) | p                   | -437 (11.10) | +000 (0.00)  |
| N                   | -420 (10.67) | -337 (8.56)  | q                   | -404 (10.26) | +125 (3.18)  |
| P                   | -490 (12.45) | -227 (5.77)  | r                   | -314 (7.98)  | +221 (5.61)  |
| R                   | -531 (13.49) | -093 (2.36)  | s                   | -245 (6.22)  | +337 (8.56)  |
| S                   | -531 (13.49) | +093 (2.36)  | t                   | -136 (3.45)  | +424 (10.77) |
| T                   | -490 (12.45) | +227 (5.77)  | u                   | +000 (0.00)  | +395 (10.03) |
| U                   | -420 (10.67) | +337 (8.56)  | v                   | +097 (2.46)  | +265 (6.73)  |
| V                   | -275 (6.99)  | +466 (11.84) | w                   | +180 (4.57)  | +000 (0.00)  |
| W                   | -065 (1.65)  | +533 (13.54) | x                   | +097 (2.46)  | -265 (6.73)  |
| X                   | +136 (3.45)  | +424 (10.77) | y                   | -097 (2.46)  | -265 (6.73)  |
| Y                   | +245 (6.22)  | +337 (8.56)  | z                   | -180 (4.57)  | +000 (0.00)  |
| Z                   | +314 (7.98)  | +221 (5.61)  | AA                  | -097 (2.46)  | +265 (6.73)  |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Standard contact |               |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------------|---------------|
|            |                 |                    |               |                |                  | Pin              | Socket        |
| 25         | -46             | 2                  | 8 (see note)  | Coax           | z, w             | M39029/60-367    | M39029/59-366 |
|            |                 | 4                  | 16            | I              | AA, v, x, y      | M39029/58-364    | M39029/56-352 |
|            |                 | 40                 | 20            |                | All others       | M39029/58-363    | M39029/56-351 |

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| <b>TITLE</b>   | <b>Composite Plug 8D series</b>    |                            |   |
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| NA             |                                    | ±--                        | <b>859</b>  |
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