



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Aluminium
- Shell Plating : Olive drab Cadmium
- 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 +175°C
- Salt Spray : 500 hours
- Mass : 13.05 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 21.8 Max |
| Z                   | 31 Max   |
| VV THREAD           | M12x1-6g |

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: 8D509W35SD**

|              |            |                          |                         |
|--------------|------------|--------------------------|-------------------------|
| A            | 15-10-2016 | First Release            |                         |
| ISS          | DATE       | Latest modification - by | MOD N°                  |
| Designed By: |            | Date:                    | <b>CUSTOMER DRAWING</b> |

|                |                         |   |   |    |   |    |   |   |                                    |
|----------------|-------------------------|---|---|----|---|----|---|---|------------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 09 | W | 35 | S | D |                                    |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   |                                    |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   |                                    |
| SHELL SIZE :   | 09                      |   |   |    |   |    |   |   |                                    |
| PLATING :      | W = Olive drab Cadmium  |   |   |    |   |    |   |   |                                    |
|                |                         |   |   |    |   |    |   |   | ORIENTATION : D                    |
|                |                         |   |   |    |   |    |   |   | CONTACT TYPE : SOCKET(500 Matings) |
|                |                         |   |   |    |   |    |   |   | CONTACT LAYOUT : 09-35             |

|                |                          |                                |   |
|----------------|--------------------------|--------------------------------|---|
| <b>TITLE</b>   | Aluminium Plug 8D series |                                |   |
| SCALE          | NA                       | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
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| FORMAT         | <b>A3</b>                |                                | SOURIAU DRG N°<br><b>8D509W35SD-C</b>   |
|                |                          |                                | SHEET<br>1/2  |

Contact Layout



| Contact position ID | Contact location |             |
|---------------------|------------------|-------------|
|                     | X-axis (mm)      | Y-axis (mm) |
| 1                   | +045 (1.14)      | +078 (1.98) |
| 2                   | +078 (1.98)      | -045 (1.14) |
| 3                   | +000 (0.00)      | -090 (2.29) |
| 4                   | -078 (1.98)      | -045 (1.14) |
| 5                   | -045 (1.14)      | +078 (1.98) |
| 6                   | +000 (0.00)      | +000 (0.00) |

(Applicable to MIL-DTL-38999 and SAE-AS29600)

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 9          | -35             | 6                  | 22D           | M              | All              | MS27525-35 |

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| <b>TITLE</b>   | Aluminium Plug 8D series           |                                |   |
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| NA             |                                    |                                |   |
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| FORMAT         | <b>SOURIAU DRG N° 8D509W35SD-C</b> |                                | SHEET<br>2/2  |