



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 : 25.5 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 35.7 Max |
| Z'                  | 31.5 Max |
| VV THREAD           | M25x1-6g |

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: 8D517M99AC**

|              |            |                          |                         |
|--------------|------------|--------------------------|-------------------------|
| A            | 17-10-2016 | First Release            |                         |
| ISS          | DATE       | Latest modification - by | MOD N°                  |
| Designed By: |            | Date:                    | <b>CUSTOMER DRAWING</b> |

|                |                         |   |   |    |   |    |   |   |                                 |
|----------------|-------------------------|---|---|----|---|----|---|---|---------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 17 | M | 99 | A | C | ORIENTATION : C                 |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   | CONTACT TYPE : PIN(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   | CONTACT LAYOUT : 17-99          |
| SHELL SIZE :   | 17                      |   |   |    |   |    |   |   |                                 |
| PLATING :      | M = Nickel              |   |   |    |   |    |   |   |                                 |

|                |                          |                                |   |
|----------------|--------------------------|--------------------------------|---|
| <b>TITLE</b>   | Composite 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>8D517M99AC-C</b>   |
|                |                          |                                | SHEET<br>1/2  |

4  
3  
2  
1

Contact Layout



| Contacts<br>(Insert arrangement 17-99) |                  |              |                     |                  |              |
|--|------------------|--------------|---------------------|------------------|--------------|
| Contact position ID                    | Contact location |              | Contact position ID | Contact location |              |
|  | X-axis (mm)      | Y-axis (mm)  |                     | X-axis (mm)      | Y-axis (mm)  |
| A                                      | .000 (0.00)      | +321 (8.15)  | N                   | -.305 (7.75)     | +099 (2.51)  |
| B                                      | +131 (3.33)      | +293 (7.44)  | P                   | -.239 (6.07)     | +214 (5.44)  |
| C                                      | +239 (6.07)      | +214 (5.44)  | R                   | -.131 (3.33)     | +293 (7.44)  |
| D                                      | -.305 (7.75)     | -.000 (2.51) | S                   | .070 (1.78)      | -.177 (4.50) |
| E                                      | +319 (8.10)      | -.034 (0.86) | T                   | +070 (1.78)      | +177 (4.50)  |
| F                                      | +278 (7.06)      | -.161 (4.09) | U                   | +175 (4.45)      | +094 (2.39)  |
| G                                      | +189 (4.80)      | -.260 (6.60) | V                   | +150 (3.81)      | -.075 (1.91) |
| H                                      | +067 (1.70)      | -.314 (7.98) | W                   | +000 (0.00)      | -.161 (4.09) |
| J                                      | -.067 (1.70)     | -.314 (7.98) | X                   | -.150 (3.81)     | -.075 (1.91) |
| K                                      | -.189 (4.80)     | -.260 (6.60) | Y                   | -.175 (4.45)     | +094 (2.39)  |
| L                                      | -.278 (7.06)     | -.161 (4.09) | Z                   | +000 (0.00)      | +025 (0.64)  |
| M                                      | -.319 (8.10)     | -.034 (0.86) |                     |                  |              |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact position ID | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|---------------------|------------|
| 17         | -99             | 2                  | 16            | I              | W, Z                | MS20053-99 |
|            |                 | 21                 | 20            |                | All others          |            |

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| <b>TITLE</b>   | <b>Composite Plug 8D series</b>    |                            |   |
| SCALE          |                                    | General linear Tolerances: | NPRDS / PROJECT   |
| NA             |                                    | ±--                        | <b>859</b>  |
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| FORMAT         | <b>SOURIAU DRG N° 8D517M99AC-C</b> |                            | SHEET 2/2   |