



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 without Souriau contacts
- Temperature Range : -65°C to +175°C
- Salt Spray : 500 hours
- Mass : 37.65 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 41.7 Max |
| Z                   | 31 Max   |
| VV THREAD           | M31x1-6g |

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: 8D521W16PCL**

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

|                |                         |   |   |    |   |    |   |   |   |                                 |
|----------------|-------------------------|---|---|----|---|----|---|---|---|---------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 21 | W | 16 | P | C | L | Delivered W/O Contacts          |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   |   | ORIENTATION : C                 |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   |   | CONTACT TYPE : PIN(500 Matings) |
| SHELL SIZE :   | 21                      |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 21-16          |
| PLATING :      | W = Olive drab Cadmium  |   |   |    |   |    |   |   |   |                                 |

|                |                          |                                |   |
|----------------|--------------------------|--------------------------------|---|
| <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>8D521W16PCL-C</b>  |
|                |                          |                                | SHEET<br>1/2  |

Contact Layout



| Contacts<br>(Insert arrangement 21-16) |             |             |                     |             |             |
|--|-------------|-------------|---------------------|-------------|-------------|
| Contact position ID                    | Location    |             | Contact position ID | Location    |             |
|  | X-axis      | Y-axis      |                     | X-axis      | Y-axis      |
| A                                      | +118 (3.00) | +322 (8.18) | J                   | -341 (8.66) | +036 (0.91) |
| B                                      | +271 (6.88) | +211 (5.36) | K                   | -271 (6.88) | +211 (5.36) |
| C                                      | +341 (8.66) | +036 (0.91) | L                   | -118 (3.00) | +322 (8.18) |
| D                                      | +308 (7.82) | -150 (3.81) | M                   | +000 (0.00) | +175 (4.45) |
| E                                      | +182 (4.62) | -290 (7.37) | N                   | +154 (3.91) | +062 (1.57) |
| F                                      | +000 (0.00) | -343 (8.71) | P                   | +094 (2.39) | -122 (3.10) |
| G                                      | -182 (4.62) | -290 (7.37) | R                   | -094 (2.39) | -122 (3.10) |
| H                                      | -308 (7.82) | -150 (3.81) | S                   | -154 (3.91) | +062 (1.57) |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 21         | -16             | 16                 | 16            | II             | All              | MS20055-16 |

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| <b>TITLE</b>   | Aluminium Plug 8D series            |                            |   |
| SCALE          |                                     | General linear Tolerances: | NPRDS / PROJECT   |
| NA             |                                     | ±--                        | <b>859</b>  |
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| FORMAT         | <b>SOURIAU DRG N° 8D521W16PCL-C</b> |                            | SHEET 2/2   |