



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 48 Max   |
| Z                   | 31 Max   |
| VV THREAD           | M37x1-6g |

**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 : 96.24 g ± 10%

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: 8D525W20SC

|              |   |                                |   |
|--------------|---|--------------------------------|---|
| A            | 10-10-2016  | First Release                  |   |
| ISS          | DATE  | Latest modification - by       | MOD N°  |
| Designed By: |   | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b> | Aluminium Plug 8D series  |                                |   |
| SCALE        |   | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
| NA           | <b>SOURIAU</b> <a href="http://WWW.SOURIAU.COM">WWW.SOURIAU.COM</a> |                                | This document is the property of SOURIAU it must not be reproduced or communicated without permission |
| FORMAT       | <b>A3</b>   |                                | SOURIAU DRG N°<br><b>8D525W20SC-C</b>   |
|              |   |                                | SHEET<br>1/2  |

|                |                         |   |   |    |   |    |   |   |                                    |
|----------------|-------------------------|---|---|----|---|----|---|---|------------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 25 | W | 20 | S | C | ORIENTATION : C                    |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   | CONTACT TYPE : SOCKET(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   | CONTACT LAYOUT : 25-20             |
| SHELL SIZE :   | 25                      |   |   |    |   |    |   |   |                                    |
| PLATING :      | W = Olive drab Cadmium  |   |   |    |   |    |   |   |                                    |

4  
3  
2  
1

**Contact Layout**



| Contacts<br>(Insert arrangement 25-20) |              |              |                     |              |              |
|--|--------------|--------------|---------------------|--------------|--------------|
| Contact position ID                    | Location     |              | Contact position ID | Location     |              |
|  | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm)  | Y-axis (mm)  |
| A                                      | +000 (0.00)  | +407 (10.34) | S                   | -234 (5.94)  | +511 (12.98) |
| B                                      | +234 (5.94)  | +511 (12.98) | T                   | +243 (6.17)  | +270 (6.86)  |
| C                                      | +352 (8.94)  | +411 (10.44) | U                   | +357 (9.07)  | +136 (3.45)  |
| D                                      | +466 (11.84) | +275 (6.99)  | V                   | +450 (11.43) | -183 (4.65)  |
| E                                      | +530 (13.46) | +111 (2.82)  | w                   | +000 (0.00)  | -131 (3.33)  |
| F                                      | +537 (13.64) | -060 (1.52)  | X                   | -450 (11.43) | -183 (4.65)  |
| G                                      | +467 (11.86) | -312 (7.92)  | Y                   | -357 (9.07)  | +136 (3.45)  |
| H                                      | +208 (5.28)  | -353 (8.97)  | Z                   | -243 (6.17)  | +270 (6.86)  |
| J                                      | +000 (0.00)  | -541 (13.74) | 1                   | +195 (4.95)  | +115 (2.92)  |
| K                                      | -208 (5.28)  | -353 (8.97)  | 2                   | +317 (8.05)  | -061 (1.55)  |
| L                                      | -467 (11.86) | -312 (7.92)  | 3                   | -317 (8.05)  | -061 (1.55)  |
| M                                      | -537 (13.64) | -060 (1.52)  | 4                   | -195 (4.95)  | +115 (2.92)  |

| Contacts<br>(Insert arrangements 25-20) |              |              |                     |             |             |
|---|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID                     | Location     |              | Contact position ID | Location    |             |
|   | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm) | Y-axis (mm) |
| N                                       | -530 (13.46) | +111 (2.82)  | 5                   | +000 (0.00) | +099 (2.51) |
| P                                       | -466 (11.84) | +275 (6.99)  | 6                   | +141 (3.58) | -018 (0.46) |
| R                                       | -352 (8.94)  | +411 (10.44) | 7                   | -141 (3.58) | -018 (0.46) |

| Shell size | Arrangement no. | Number of contacts          | Size contacts | Service rating | Contact location                      | Standard contact |                |
|------------|-----------------|-----------------------------|---------------|----------------|---------------------------------------|------------------|----------------|
|            |                 |                             |               |                |                                       | Pin              | Socket         |
| 25         | -20             | 3                           | 8             | Twinax         | A,H,K                                 | M39029/90-529    | M39029/91-530  |
|            |                 | 4                           | 12            | Coax           | 2,3                                   | M39029/28-211    | M39029/75-416  |
|            |                 | 13                          | 16            | N              | W,5                                   | M39029/102-558   | M39029/103-559 |
|            |                 |                             |               |                | C,D,E,F,<br>J,M,N,P,<br>R,T,U,Y,<br>Z | M39029/58-364    | M39029/56-352  |
| 10         | 20              | B,G,L,S,<br>V,X,1,4,<br>6,7 | M39029/58-363 | M39029/56-351  |                                       |                  |                |

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| <b>TITLE</b>   | <b>Aluminium Plug 8D series</b>    |                            |   |
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| NA             |                                    | ±--                        | <b>859</b>  |
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| FORMAT         | <b>SOURIAU DRG N° 8D525W20SC-C</b> |                            | SHEET 2/2   |