

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 : 63.96 g ± 10%

| Connector dimension |                 |
|---------------------|-----------------|
| Dim                 | Nominal         |
| A                   | 58.7±0.3        |
| B                   | 42.85+0.1/-0.15 |
| R                   | 32.5Max         |
| S                   | 55.6±0.4        |
| W                   | 3+0.9/-0.1      |
| VV THREAD           | M37x1-6g        |

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

**PN: 8D725W20SAL**

|              |            |                          |                         |
|--------------|------------|--------------------------|-------------------------|
| A            | 05-10-2016 | First Release            |                         |
| ISS          | DATE       | Latest modification - by | MOD N°                  |
| Designed By: |            | Date:                    | <b>CUSTOMER DRAWING</b> |

|              |                                |  |  |
|--------------|--------------------------------|--|--|
| <b>TITLE</b> | Aluminium Receptacle 8D series |  |  |
|--------------|--------------------------------|--|--|

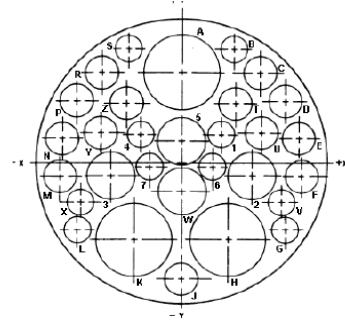
|       |  |                                |                 |
|-------|--|--------------------------------|-----------------|
| SCALE |  | General linear Tolerances: ±-- | NPRDS / PROJECT |
| NA    |  |                                | <b>859</b>      |

|                |                        |   |
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|           |                                     |            |
|-----------|-------------------------------------|------------|
| FORMAT    | <b>SOURIAU DRG N° 8D725W20SAL-C</b> | SHEET      |
| <b>A3</b> |                                     | <b>1/2</b> |

|                |                        |   |   |    |   |    |   |   |   |                                    |
|----------------|------------------------|---|---|----|---|----|---|---|---|------------------------------------|
| BASIC SERIES:  | 8D                     | 7 | - | 25 | W | 20 | S | A | L | Delivered W/O Contacts             |
| SHELL TYPE :   | Jam nut Receptacle     |   |   |    |   |    |   |   |   | ORIENTATION : A                    |
| CONTACT TYPE : | Standard Crimp Contact |   |   |    |   |    |   |   |   | CONTACT TYPE : SOCKET(500 Matings) |
| SHELL SIZE :   | 25                     |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 25-20             |
| PLATING :      | W = Olive drab Cadmium |   |   |    |   |    |   |   |   |                                    |

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 arrangement 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 | M39029/56-364    | M39029/56-352  |
| 10         | 20              |                    | B,G,L,S,<br>V,X,1,4,<br>6,7 | M39029/56-363  | M39029/56-351                         |                  |                |

Panel cutout

JAM NUT RECEPTACLE (TYPE 7)



| Dim | Nominal       |
|-----|---------------|
| B   | 43.43+0/-0.25 |
| ØC  | 44.7+0.25/-0  |

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| NA             |                                     | ±--                        | <b>859</b>  |
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