



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Aluminium
- 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 without Souriau contacts
- Temperature Range : -65°C to +200°C
- Salt Spray : 48 hours
- Mass : 44.45 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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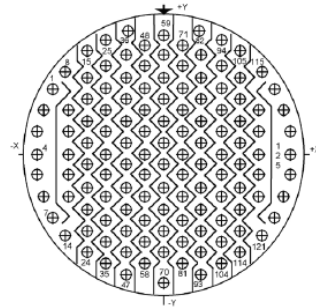
| Country | Jurisdiction & Control List |
|---------|-----------------------------|
| FR      | Not Listed                  |

**PN: 8D725F35PAL**

|              |                                                                     |                                |                                                                                                       |
|--------------|---------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------|
| A            | 03-10-2016                                                          | First Release                  |                                                                                                       |
| ISS          | DATE                                                                | Latest modification - by       | MOD N°                                                                                                |
| Designed By: |                                                                     | Date:                          | <b>CUSTOMER DRAWING</b>                                                                               |
| <b>TITLE</b> | <b>Aluminium Receptacle 8D series</b>                               |                                |                                                                                                       |
| 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>                                                           |                                | <b>SOURIAU DRG N° 8D725F35PAL-C</b> SHEET 1/2                                                         |

|               |                          |   |   |    |   |    |   |   |   |                                 |
|---------------|--------------------------|---|---|----|---|----|---|---|---|---------------------------------|
| BASIC SERIES: | 8D                       | 7 | - | 25 | F | 35 | P | A | L | Delivered W/O Contacts          |
| SHELL TYPE    | : Jam nut Receptacle     |   |   |    |   |    |   |   |   | ORIENTATION : A                 |
| CONTACT TYPE  | : Standard Crimp Contact |   |   |    |   |    |   |   |   | CONTACT TYPE : PIN(500 Matings) |
| SHELL SIZE    | : 25                     |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 25-35          |
| PLATING       | : F = Nickel             |   |   |    |   |    |   |   |   |                                 |

Contact Layout



| Contacts<br>(Insert arrangement 25-35) |               |               |                     |              |               |
|----------------------------------------|---------------|---------------|---------------------|--------------|---------------|
| Contact position ID                    | Location      |               | Contact position ID | Location     |               |
|                                        | X-axis (mm)   | Y-axis (mm)   |                     | X-axis (mm)  | Y-axis (mm)   |
| 1                                      | -479 (12.17)  | +279 (7.09)   | 65                  | +000 (0.00)  | -.047 (1.19)  |
| 2                                      | -520 (13.21)  | +190 (4.83)   | 66                  | +000 (0.00)  | -.142 (3.61)  |
| 3                                      | -.546 (13.87) | +095 (2.41)   | 67                  | +000 (0.00)  | -.237 (6.02)  |
| 4                                      | -.555 (14.10) | +000 (0.00)   | 68                  | +000 (0.00)  | -.332 (8.43)  |
| 5                                      | -.546 (13.87) | -.095 (2.41)  | 69                  | +000 (0.00)  | -.427 (10.85) |
| 6                                      | -.520 (13.21) | -.190 (4.83)  | 70                  | +000 (0.00)  | -.555 (14.10) |
| 7                                      | -.479 (12.17) | -.279 (7.09)  | 71                  | +083 (2.11)  | +475 (12.07)  |
| 8                                      | -.424 (10.77) | +357 (9.07)   | 72                  | +083 (2.11)  | +380 (9.65)   |
| 9                                      | -.415 (10.54) | +190 (4.83)   | 73                  | +083 (2.11)  | +285 (7.24)   |
| 10                                     | -.415 (10.54) | +095 (2.41)   | 74                  | +083 (2.11)  | +190 (4.83)   |
| 11                                     | -.415 (10.54) | 000 (0.00)    | 75                  | +083 (2.11)  | +095 (2.41)   |
| 12                                     | -.415 (10.54) | -.095 (2.41)  | 76                  | +083 (2.11)  | +000 (0.00)   |
| 13                                     | -.415 (10.54) | -.190 (4.83)  | 77                  | +083 (2.11)  | -.095 (2.41)  |
| 14                                     | -.424 (10.77) | -.357 (9.07)  | 78                  | +083 (2.11)  | -.190 (4.83)  |
| 15                                     | -.332 (8.43)  | +444 (11.28)  | 79                  | +083 (2.11)  | -.285 (7.24)  |
| 16                                     | -.332 (8.43)  | +332 (8.43)   | 80                  | +083 (2.11)  | -.380 (9.65)  |
| 17                                     | -.332 (8.43)  | +237 (6.02)   | 81                  | +083 (2.11)  | -.475 (12.07) |
| 18                                     | -.332 (8.43)  | +142 (3.61)   | 82                  | +160 (4.06)  | +531 (13.49)  |
| 19                                     | -.332 (8.43)  | +047 (1.19)   | 83                  | +166 (4.22)  | +427 (10.85)  |
| 20                                     | -.332 (8.43)  | -.047 (1.19)  | 84                  | +166 (4.22)  | +332 (8.43)   |
| 21                                     | -.332 (8.43)  | -.142 (3.61)  | 85                  | +166 (4.22)  | +237 (6.02)   |
| 22                                     | -.332 (8.43)  | -.237 (6.02)  | 86                  | +166 (4.22)  | +142 (3.61)   |
| 23                                     | -.332 (8.43)  | -.332 (8.43)  | 87                  | +166 (4.22)  | +047 (1.19)   |
| 24                                     | -.332 (8.43)  | -.427 (10.85) | 88                  | +166 (4.22)  | -.047 (1.19)  |
| 25                                     | -.249 (6.32)  | +496 (12.60)  | 89                  | +166 (4.22)  | -.142 (3.61)  |
| 26                                     | -.249 (6.32)  | +380 (9.65)   | 90                  | +166 (4.22)  | -.237 (6.02)  |
| 27                                     | -.249 (6.32)  | +285 (7.24)   | 91                  | +166 (4.22)  | -.332 (8.43)  |
| 28                                     | -.249 (6.32)  | +190 (4.83)   | 92                  | +166 (4.22)  | -.427 (10.85) |
| 29                                     | -.249 (6.32)  | +095 (2.41)   | 93                  | +166 (4.22)  | -.522 (13.26) |
| 30                                     | -.249 (6.32)  | +000 (0.00)   | 94                  | +249 (6.32)  | +496 (12.60)  |
| 31                                     | -.249 (6.32)  | -.095 (2.41)  | 95                  | +249 (6.32)  | +380 (9.65)   |
| 32                                     | -.249 (6.32)  | -.190 (4.83)  | 96                  | +249 (6.32)  | +285 (7.24)   |
| 33                                     | -.249 (6.32)  | -.285 (7.24)  | 97                  | +249 (6.32)  | +190 (4.83)   |
| 34                                     | -.249 (6.32)  | -.380 (9.65)  | 98                  | +249 (6.32)  | +095 (2.41)   |
| 35                                     | -.249 (6.32)  | -.475 (12.07) | 99                  | +249 (6.32)  | +000 (0.00)   |
| 36                                     | -.166 (4.22)  | +531 (13.49)  | 100                 | +249 (6.32)  | -.095 (2.41)  |
| 37                                     | -.166 (4.22)  | +427 (10.85)  | 101                 | +249 (6.32)  | -.190 (4.83)  |
| 38                                     | -.166 (4.22)  | +332 (8.43)   | 102                 | +249 (6.32)  | -.285 (7.24)  |
| 39                                     | -.166 (4.22)  | +237 (6.02)   | 103                 | +249 (6.32)  | -.380 (9.65)  |
| 40                                     | -.166 (4.22)  | +142 (3.61)   | 104                 | +249 (6.32)  | -.475 (12.07) |
| 41                                     | -.166 (4.22)  | +047 (1.19)   | 105                 | +332 (8.43)  | +444 (11.28)  |
| 42                                     | -.166 (4.22)  | -.047 (1.19)  | 106                 | +332 (8.43)  | +332 (8.43)   |
| 43                                     | -.166 (4.22)  | -.142 (3.61)  | 107                 | +332 (8.43)  | +237 (6.02)   |
| 44                                     | -.166 (4.22)  | -.237 (6.02)  | 108                 | +332 (8.43)  | +142 (3.61)   |
| 45                                     | -.166 (4.22)  | -.332 (8.43)  | 109                 | +332 (8.43)  | +047 (1.19)   |
| 46                                     | -.166 (4.22)  | -.427 (10.85) | 110                 | +332 (8.43)  | -.047 (1.19)  |
| 47                                     | -.166 (4.22)  | -.522 (13.26) | 111                 | +332 (8.43)  | -.142 (3.61)  |
| 48                                     | -.083 (2.11)  | +475 (12.07)  | 112                 | +332 (8.43)  | -.237 (6.02)  |
| 49                                     | -.083 (2.11)  | +380 (9.65)   | 113                 | +332 (8.43)  | -.332 (8.43)  |
| 50                                     | -.083 (2.11)  | +285 (7.24)   | 114                 | +332 (8.43)  | -.427 (10.85) |
| 51                                     | -.083 (2.11)  | +190 (4.83)   | 115                 | +424 (10.77) | +357 (9.07)   |
| 52                                     | -.083 (2.11)  | +095 (2.41)   | 116                 | +415 (10.54) | +190 (4.83)   |
| 53                                     | -.083 (2.11)  | +000 (0.00)   | 117                 | +415 (10.54) | +095 (2.41)   |
| 54                                     | -.083 (2.11)  | -.095 (2.41)  | 118                 | +415 (10.54) | +000 (0.00)   |
| 55                                     | -.083 (2.11)  | -.190 (4.83)  | 119                 | +415 (10.54) | -.095 (2.41)  |
| 56                                     | -.083 (2.11)  | -.285 (7.24)  | 120                 | +415 (10.54) | -.190 (4.83)  |
| 57                                     | -.083 (2.11)  | -.380 (9.65)  | 121                 | +424 (10.77) | -.357 (9.07)  |
| 58                                     | -.083 (2.11)  | -.475 (12.07) | 122                 | +479 (12.17) | +279 (7.09)   |
| 59                                     | +000 (0.00)   | +522 (13.26)  | 123                 | +520 (13.21) | +190 (4.83)   |
| 60                                     | +000 (0.00)   | +427 (10.85)  | 124                 | +546 (13.87) | +095 (2.41)   |
| 61                                     | +000 (0.00)   | +332 (8.43)   | 125                 | +555 (14.10) | +000 (0.00)   |
| 62                                     | +000 (0.00)   | +237 (6.02)   | 126                 | +546 (13.87) | -.095 (2.41)  |
| 63                                     | +000 (0.00)   | +142 (3.61)   | 127                 | +520 (13.21) | -.190 (4.83)  |
| 64                                     | +000 (0.00)   | +047 (1.19)   | 128                 | +479 (12.17) | -.279 (7.09)  |

(Applicable to MIL-DTL-38999 only)

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 25         | -35             | 128                | 22D           | M              | All              | MS27533-35 |

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

PN: 8D725F35PAL

|                                                                                                       |            |                                |                     |
|-------------------------------------------------------------------------------------------------------|------------|--------------------------------|---------------------|
| A                                                                                                     | 03-10-2016 | First Release                  |                     |
| ISS                                                                                                   | DATE       | Latest modification - by       | MOD N°              |
| Designed By:                                                                                          |            | Date:                          | CUSTOMER DRAWING    |
| TITLE                                                                                                 |            | Aluminium Receptacle 8D series |                     |
| SCALE                                                                                                 | NA         | General linear Tolerances: ±-- | NPRDS / PROJECT 859 |
| SOURIAU                                                                                               |            | WWW.SOURIAU.COM                |                     |
| FORMAT                                                                                                |            | SOURIAU DRG N° 8D725F35PAL-C   |                     |
| A3                                                                                                    |            | SHEET 2/2                      |                     |
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