



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Aluminium
- Shell Plating : Black Zinc 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 +175°C
- Salt Spray : 500 hours
- Mass : 62.08 g ± 10%

| Connector dimension |               |
|---------------------|---------------|
| Dim                 | Nominal       |
| P                   | 3.91±0.2      |
| PP                  | 6.15±0.2      |
| R1                  | 38.1          |
| R2                  | 34.93         |
| S                   | 46±0.3        |
| V                   | 20.07+0/-1.25 |
| W                   | 2.1/3.2       |
| Z                   | 31.5 Max      |
| VV THREAD           | M37x1-6g      |

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

**PN: 8D025Z61SEL**

|                |                                       |                                |   |
|----------------|---------------------------------------|--------------------------------|---|
| A              | 10-10-2016                            | 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          | NA                                    | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
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| FORMAT         | <b>A3</b>                             |                                | <b>SOURIAU DRG N° 8D025Z61SEL-C</b>   |
|                |                                       |                                | SHEET<br>1/2  |

BASIC SERIES: 8D 0 - 25 Z 61 S E L

SHELL TYPE : Square Flange Receptacle Delivered W/O Contacts

CONTACT TYPE : Standard Crimp Contact ORIENTATION : E

SHELL SIZE : 25 CONTACT TYPE : SOCKET(500 Matings)

PLATING : Z = Black Zinc Nickel CONTACT LAYOUT : 25-61

Contact Layout



| Contacts<br>(Insert arrangement 25-61) |              |              |                     |              |              |
|--|--------------|--------------|---------------------|--------------|--------------|
| Contact position ID                    | Location     |              | Contact position ID | Location     |              |
|  | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm)  | Y-axis (mm)  |
| A                                      | +196 (4.98)  | +500 (12.70) | J                   | +251 (6.38)  | -314 (7.98)  |
| B                                      | +314 (7.98)  | +435 (11.05) | K                   | +133 (3.38)  | -379 (9.63)  |
| C                                      | +413 (10.49) | +343 (8.71)  | L                   | +000 (0.00)  | -402 (10.21) |
| D                                      | +485 (12.32) | +230 (5.84)  | M                   | -133 (3.38)  | -379 (9.63)  |
| E                                      | +527 (13.39) | +101 (2.57)  | N                   | -251 (6.38)  | -314 (7.98)  |
| F                                      | +536 (13.61) | -030 (0.76)  | O                   | -341 (8.66)  | -213 (5.41)  |
| G                                      | +511 (12.98) | -164 (4.17)  | P                   | -392 (9.96)  | -088 (2.24)  |
| H                                      | +454 (11.53) | -287 (7.29)  | Q                   | -399 (10.13) | +046 (1.17)  |
| J                                      | +368 (9.35)  | -391 (9.93)  | R                   | -362 (9.19)  | +175 (4.45)  |
| K                                      | +259 (6.58)  | -470 (11.94) | S                   | -285 (7.24)  | +283 (7.19)  |
| L                                      | +134 (3.40)  | -519 (13.18) | T                   | -173 (4.39)  | +363 (9.22)  |
| M                                      | +000 (0.00)  | -537 (13.64) | U                   | +000 (0.00)  | +338 (8.59)  |
| N                                      | -134 (3.40)  | -519 (13.18) | V                   | +147 (3.73)  | +223 (5.66)  |
| P                                      | -259 (6.58)  | -470 (11.94) | W                   | +237 (6.02)  | +122 (3.10)  |
| R                                      | -368 (9.35)  | -391 (9.93)  | X                   | +267 (6.78)  | -010 (0.25)  |
| S                                      | -454 (11.53) | -287 (7.29)  | Y                   | +228 (5.79)  | -139 (3.53)  |
| T                                      | -511 (12.98) | -164 (4.17)  | Z                   | +131 (3.33)  | -233 (5.92)  |
| U                                      | -536 (13.61) | -030 (0.76)  | AA                  | +000 (0.00)  | -267 (6.78)  |
| V                                      | -527 (13.39) | +101 (2.57)  | BB                  | -131 (3.33)  | -233 (5.92)  |
| W                                      | -485 (12.32) | +230 (5.84)  | CC                  | -228 (5.79)  | -139 (3.53)  |
| X                                      | -413 (10.49) | +343 (8.71)  | DD                  | -267 (6.78)  | -010 (0.25)  |
| Y                                      | -314 (7.98)  | +435 (11.05) | EE                  | -237 (6.02)  | +122 (3.10)  |
| Z                                      | -196 (4.98)  | +500 (12.70) | FF                  | -147 (3.73)  | +223 (5.66)  |
| a                                      | -068 (1.73)  | +454 (11.53) | GG                  | +000 (0.00)  | +200 (5.08)  |
| b                                      | +068 (1.73)  | +454 (11.53) | HH                  | +105 (2.67)  | +094 (2.39)  |
| c                                      | +173 (4.39)  | +363 (9.22)  | JJ                  | +135 (3.43)  | -041 (1.04)  |
| d                                      | +285 (7.24)  | +283 (7.19)  | KK                  | +000 (0.00)  | -132 (3.35)  |
| e                                      | +362 (9.19)  | +175 (4.45)  | LL                  | -135 (3.43)  | -041 (1.04)  |
| f                                      | +399 (10.13) | -046 (1.17)  | MM                  | -105 (2.67)  | +094 (2.39)  |
| g                                      | +392 (9.96)  | -088 (2.24)  | NN                  | +000 (0.00)  | +000 (0.00)  |
| h                                      | +341 (8.66)  | -213 (5.41)  | PP                  | ---          | ---          |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 25         | -61             | 61                 | 20            | I              | All              | MS20057-61 |

Panel Cutout



| Dim | Nominal    |
|-----|------------|
| ØA  | 42.47 min  |
| ØAA | 37.69 min  |
| R1  | 38.1       |
| ØT  | 3.81 ±0.13 |

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| FORMAT         | <b>SOURIAU DRG N° 8D025Z61SEL-C</b> |                            | SHEET 2/2   |