



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 with Souriau contacts and Accessories
- Temperature Range : -65°C to +175°C
- Salt Spray : 500 hours
- Mass : 49.21 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      |

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: 8D025Z35AB**

|   |                                    |                                |                               |
|---|------------------------------------|--------------------------------|-------------------------------|
| A   | 10-10-2016                         | First Release                  |                               |
| ISS   | DATE                               | Latest modification - by       | MOD N°                        |
| Designed By:  |                                    | Date:                          | <b>CUSTOMER DRAWING</b>       |
| <b>TITLE</b>  |                                    | Aluminium Receptacle 8D series |                               |
| SCALE   | NA                                 | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b> |
| <b>SOURIAU</b>  |                                    | <b>WWW.SOURIAU.COM</b>         |                               |
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| FORMAT  | <b>SOURIAU DRG N° 8D025Z35AB-C</b> |                                | SHEET<br>1/2                  |

BASIC SERIES: 8D 0 - 25 Z 35 A B

SHELL TYPE : Square Flange Receptacle

CONTACT TYPE : Standard Crimp Contact

SHELL SIZE : 25

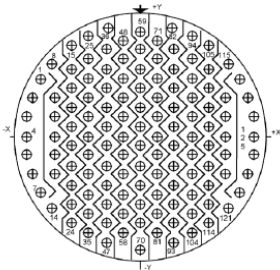
PLATING : Z = Black Zinc Nickel

ORIENTATION : B

CONTACT TYPE : PIN(500 Matings)

CONTACT LAYOUT : 25-35

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                                     | -160 (4.06)  | +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



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

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| FR      | Not Listed                  |

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|              |            |   |                     |
|--------------|------------|---|---------------------|
| A            | 10-10-2016 | 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 |
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