



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 with Souriau contacts and Accessories
- Temperature Range : -65°C to +200°C
- Salt Spray : 48 hours
- Mass : 53.74 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 38.5 Max |
| Z                   | 31 Max   |
| VV THREAD           | M28x1-6g |

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

**PN: 8D519F35SA**

|                |                                    |                                |   |
|----------------|------------------------------------|--------------------------------|---|
| A              | 18-10-2016                         | First Release                  |   |
| ISS            | DATE                               | Latest modification - by       | MOD N°  |
| Designed By:   |                                    | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b>   | <b>Aluminium Plug 8D series</b>    |                                |   |
| SCALE          |                                    | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
| NA             |                                    |                                |   |
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| FORMAT         | <b>SOURIAU DRG N° 8D519F35SA-C</b> |                                | SHEET<br>1/2  |

|                |                         |   |   |    |   |    |   |   |                                    |
|----------------|-------------------------|---|---|----|---|----|---|---|------------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 19 | F | 35 | S | A | ORIENTATION : A                    |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   | CONTACT TYPE : SOCKET(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   | CONTACT LAYOUT : 19-35             |
| SHELL SIZE :   | 19                      |   |   |    |   |    |   |   |                                    |
| PLATING :      | F = Nickel              |   |   |    |   |    |   |   |                                    |

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**Contact Layout**



| Contacts<br>(Insert arrangement 19-35) |             |             |                     |             |             |
|--|-------------|-------------|---------------------|-------------|-------------|
| Contact position ID                    | Location    |             | Contact position ID | Location    |             |
|  | X-axis (mm) | Y-axis (mm) |                     | X-axis (mm) | Y-axis (mm) |
| 1                                      | -357 (9.07) | +090 (2.29) | 34                  | +045 (1.14) | +360 (9.14) |
| 2                                      | -357 (9.07) | +000 (0.00) | 35                  | +045 (1.14) | +270 (6.86) |
| 3                                      | -357 (9.07) | -090 (2.29) | 36                  | +045 (1.14) | +180 (4.57) |
| 4                                      | -279 (7.09) | +225 (5.72) | 37                  | +045 (1.14) | +090 (2.29) |
| 5                                      | -279 (7.09) | +135 (3.43) | 38                  | +045 (1.14) | +000 (0.00) |
| 6                                      | -279 (7.09) | +045 (1.14) | 39                  | +045 (1.14) | -090 (2.29) |
| 7                                      | -279 (7.09) | -045 (1.14) | 40                  | +045 (1.14) | -180 (4.57) |
| 8                                      | -279 (7.09) | -135 (3.43) | 41                  | +045 (1.14) | -270 (6.86) |
| 9                                      | -279 (7.09) | -225 (5.72) | 42                  | +045 (1.14) | -360 (9.14) |
| 10                                     | -201 (5.11) | +270 (6.86) | 43                  | +123 (3.12) | +315 (8.00) |
| 11                                     | -201 (5.11) | +180 (4.57) | 44                  | +123 (3.12) | +225 (5.72) |
| 12                                     | -201 (5.11) | +090 (2.29) | 45                  | +123 (3.12) | +135 (3.43) |
| 13                                     | -201 (5.11) | +000 (0.00) | 46                  | +123 (3.12) | +045 (1.14) |
| 14                                     | -201 (5.11) | -090 (2.29) | 47                  | +123 (3.12) | -045 (1.14) |
| 15                                     | -201 (5.11) | -180 (4.57) | 48                  | +123 (3.12) | -135 (3.43) |
| 16                                     | -201 (5.11) | -270 (6.86) | 49                  | +123 (3.12) | -225 (5.72) |
| 17                                     | -123 (3.12) | +315 (8.00) | 50                  | +123 (3.12) | -315 (8.00) |

| Contacts<br>(Insert arrangement 19-35) |             |             |                     |             |             |
|--|-------------|-------------|---------------------|-------------|-------------|
| Contact position ID                    | Location    |             | Contact position ID | Location    |             |
|  | X-axis (mm) | Y-axis (mm) |                     | X-axis (mm) | Y-axis (mm) |
| 18                                     | -123 (3.12) | +225 (5.72) | 51                  | +201 (5.11) | +270 (6.86) |
| 19                                     | -123 (3.12) | +135 (3.43) | 52                  | +201 (5.11) | +180 (4.57) |
| 20                                     | -123 (3.12) | +045 (1.14) | 53                  | +201 (5.11) | +090 (2.29) |
| 21                                     | -123 (3.12) | -045 (1.14) | 54                  | +201 (5.11) | +000 (0.00) |
| 22                                     | -123 (3.12) | -135 (3.43) | 55                  | +201 (5.11) | -090 (2.29) |
| 23                                     | -123 (3.12) | -225 (5.72) | 56                  | +201 (5.11) | -180 (4.57) |
| 24                                     | -123 (3.12) | -315 (8.00) | 57                  | +201 (5.11) | -270 (6.86) |
| 25                                     | -045 (1.14) | +360 (9.14) | 58                  | +279 (7.09) | +225 (5.72) |
| 26                                     | -045 (1.14) | +270 (6.86) | 59                  | +279 (7.09) | +135 (3.43) |
| 27                                     | -045 (1.14) | +180 (4.57) | 60                  | +279 (7.09) | +045 (1.14) |
| 28                                     | -045 (1.14) | +090 (2.29) | 61                  | +279 (7.09) | -045 (1.14) |
| 29                                     | -045 (1.14) | +000 (0.00) | 62                  | +279 (7.09) | -135 (3.43) |
| 30                                     | -045 (1.14) | -090 (2.29) | 63                  | +279 (7.09) | -225 (5.72) |
| 31                                     | -045 (1.14) | -180 (4.57) | 64                  | +357 (9.07) | +090 (2.29) |
| 32                                     | -045 (1.14) | -270 (6.86) | 65                  | +357 (9.07) | +000 (0.00) |
| 33                                     | -045 (1.14) | -360 (9.14) | 66                  | +357 (9.07) | -090 (2.29) |

(Applicable to MIL-DTL-38999 only)

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 19         | -35             | 66                 | 22D           | M              | All              | MS27530-35 |

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| FORMAT         | <b>SOURIAU DRG N° 8D519F35SA-C</b> |   | SHEET<br>2/2                  |

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