



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Composite
- 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 with Souriau contacts and Accessories
- Temperature Range : -65°C to +175°C
- Salt Spray : 2000 hours
- Mass : 41.5 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 44.9 Max |
| Z'                  | 31.5 Max |
| VV THREAD           | M34x1-6g |

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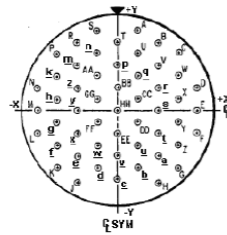
|         |                             |
|---------|-----------------------------|
| Country | Jurisdiction & Control List |
| FR      | Not Listed                  |

**PN: 8D523J53PE**

|   |                                    |                                 |                               |
|---|------------------------------------|---------------------------------|-------------------------------|
| A   | 06-10-2016                         | First Release                   |                               |
| ISS   | DATE                               | Latest modification - by        | MOD N°                        |
| Designed By:  |                                    | Date:                           | <b>CUSTOMER DRAWING</b>       |
| <b>TITLE</b>  |                                    | <b>Composite Plug 8D series</b> |                               |
| SCALE   | NA                                 | General linear Tolerances: ±--  | NPRDS / PROJECT<br><b>859</b> |
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| FORMAT  | <b>SOURIAU DRG N° 8D523J53PE-C</b> |                                 | SHEET<br>1/2                  |

|                |                         |   |   |    |   |    |   |   |                                 |
|----------------|-------------------------|---|---|----|---|----|---|---|---------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 23 | J | 53 | P | E | ORIENTATION : E                 |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   | CONTACT TYPE : PIN(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   | CONTACT LAYOUT : 23-53          |
| SHELL SIZE :   | 23                      |   |   |    |   |    |   |   |                                 |
| PLATING :      | J = Olive drab Cadmium  |   |   |    |   |    |   |   |                                 |

Contact Layout



| Contacts<br>(Insert arrangement 23-53) |              |              |                     |             |             |
|--|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID                    | Location     |              | Contact position ID | Location    |             |
|  | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm) | Y-axis (mm) |
| A                                      | +112 (2.84)  | +455 (11.56) | e                   | -225 (5.72) | -260 (6.60) |
| B                                      | +225 (5.72)  | +390 (9.91)  | f                   | -336 (8.53) | -195 (4.95) |
| C                                      | +336 (8.53)  | +325 (8.26)  | g                   | -336 (8.53) | -065 (1.65) |
| D                                      | +450 (11.43) | +130 (3.30)  | h                   | -336 (8.53) | +065 (1.65) |
| E                                      | +450 (11.43) | +000 (0.00)  | k                   | -336 (8.53) | +195 (4.95) |
| F                                      | +450 (11.43) | -130 (3.30)  | m                   | -225 (5.72) | +260 (6.60) |
| G                                      | +336 (8.53)  | -325 (8.26)  | n                   | -112 (2.84) | +325 (8.26) |
| H                                      | +225 (5.72)  | -410 (10.41) | p                   | +000 (0.00) | +260 (6.60) |
| J                                      | -225 (5.72)  | -410 (10.41) | q                   | +112 (2.84) | +195 (4.95) |
| K                                      | -336 (8.53)  | -325 (8.26)  | r                   | +225 (5.72) | +130 (3.30) |
| L                                      | -450 (11.43) | -130 (3.30)  | s                   | +225 (5.72) | +000 (0.00) |
| M                                      | -450 (11.43) | +000 (0.00)  | t                   | +225 (5.72) | -130 (3.30) |
| N                                      | -450 (11.43) | +130 (3.30)  | u                   | +112 (2.84) | -195 (4.95) |
| P                                      | -336 (8.53)  | +325 (8.26)  | v                   | +000 (0.00) | -260 (6.60) |
| R                                      | -225 (5.72)  | +390 (9.91)  | w                   | -112 (2.84) | -195 (4.95) |
| S                                      | -112 (2.84)  | +455 (11.56) | x                   | -225 (5.72) | -130 (3.30) |
| T                                      | +000 (0.00)  | +390 (9.91)  | y                   | -225 (5.72) | +000 (0.00) |
| U                                      | +112 (2.84)  | +325 (8.26)  | z                   | -225 (5.72) | +130 (3.30) |
| V                                      | +225 (5.72)  | +260 (6.60)  | AA                  | -112 (2.84) | +195 (4.95) |

| Contacts<br>(Insert arrangement 23-53) |             |             |                     |             |             |
|--|-------------|-------------|---------------------|-------------|-------------|
| Contact position ID                    | Location    |             | Contact position ID | Location    |             |
|  | X-axis (mm) | Y-axis (mm) |                     | X-axis (mm) | Y-axis (mm) |
| W                                      | +336 (8.53) | +195 (4.95) | BB                  | +000 (0.00) | +130 (3.30) |
| X                                      | +336 (8.53) | +065 (1.65) | CC                  | +112 (2.84) | +065 (1.65) |
| Y                                      | +336 (8.53) | -065 (1.65) | DD                  | +112 (2.84) | -065 (1.65) |
| Z                                      | +336 (8.53) | -195 (4.95) | EE                  | +000 (0.00) | -130 (3.30) |
| a                                      | +225 (5.72) | -260 (6.60) | FF                  | -112 (2.84) | -065 (1.65) |
| μ                                      | +112 (2.84) | -325 (8.26) | GG                  | -112 (2.84) | +065 (1.65) |
| ε                                      | +000 (0.00) | -390 (9.91) | HH                  | +000 (0.00) | +000 (0.00) |
| d                                      | -112 (2.84) | -325 (8.26) | ---                 | ---         | ---         |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 23         | -53             | 53                 | 20            | I              | All              | MS20056-53 |

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| NA             |                                    | ±--                        | <b>859</b>  |
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| FORMAT         | <b>SOURIAU DRG N° 8D523J53PE-C</b> |                            | SHEET 2/2   |