



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Composite
- 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 : 2000 hours
- Mass : 25.3 g ± 10%

| Connector dimension |             |
|---------------------|-------------|
| Dim                 | Nominal     |
| P                   | 3.25±0.2    |
| PP                  | 4.93±0.2    |
| R1                  | 29.36       |
| R2                  | 26.97       |
| S                   | 36.5±0.3    |
| V'                  | 19.5+1.4/-0 |
| W'                  | 2.1/3.65    |
| Z'                  | 32 Max      |
| VV THREAD           | M28x1-6g    |

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: 8D019M32PD**

|                |                                       |                                |   |
|----------------|---------------------------------------|--------------------------------|---|
| A              | 08-10-2016                            | First Release                  |   |
| ISS            | DATE                                  | Latest modification - by       | MOD N°  |
| Designed By:   |                                       | Date:                          | <b>CUSTOMER DRAWING</b>   |
| <b>TITLE</b>   | <b>Composite Receptacle 8D series</b> |                                |   |
| SCALE          |                                       | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>   |
| NA             |                                       |                                | This document is the property of SOURIAU it must not be reproduced or communicated without permission |
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| FORMAT         | <b>SOURIAU DRG N° 8D019M32PD-C</b>    |                                | SHEET<br>1/2  |

|                |                          |   |   |    |   |    |   |   |                                 |
|----------------|--------------------------|---|---|----|---|----|---|---|---------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 19 | M | 32 | P | D | ORIENTATION : D                 |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   | CONTACT TYPE : PIN(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   | CONTACT LAYOUT : 19-32          |
| SHELL SIZE :   | 19                       |   |   |    |   |    |   |   |                                 |
| PLATING :      | M = Nickel               |   |   |    |   |    |   |   |                                 |

Contact Layout



| Contacts<br>(insert arrangement 19-32) |                  |             |                     |                  |             |
|--|------------------|-------------|---------------------|------------------|-------------|
| Contact position ID                    | Contact location |             | Contact position ID | Contact location |             |
|  | X-axis (mm)      | Y-axis (mm) |                     | X-axis (mm)      | Y-axis (mm) |
| A                                      | +066 (1.68)      | +353 (8.97) | T                   | -066 (1.68)      | +353 (8.97) |
| B                                      | +189 (4.80)      | +305 (7.75) | U                   | +000 (0.00)      | +230 (5.84) |
| C                                      | +286 (7.26)      | +217 (5.51) | V                   | +124 (3.15)      | +193 (4.90) |
| D                                      | +345 (8.79)      | +098 (2.49) | w                   | +209 (5.31)      | -095 (2.41) |
| E                                      | +357 (9.07)      | -033 (0.84) | X                   | +228 (5.79)      | -033 (0.84) |
| F                                      | +321 (8.15)      | -160 (4.06) | Y                   | +174 (4.42)      | -151 (3.84) |
| G                                      | +242 (6.15)      | -265 (6.73) | Z                   | +065 (1.65)      | -221 (5.61) |
| H                                      | +130 (3.30)      | -335 (8.51) | a                   | -065 (1.65)      | -221 (5.61) |
| J                                      | -000 (0.00)      | -359 (9.12) | b                   | -174 (4.42)      | -151 (3.84) |
| K                                      | -130 (3.30)      | -335 (8.51) | c                   | -228 (5.79)      | -033 (0.84) |
| L                                      | -242 (6.15)      | -265 (6.73) | d                   | -209 (5.31)      | +095 (2.41) |
| M                                      | -321 (8.15)      | -160 (4.06) | e                   | -124 (3.15)      | +193 (4.90) |
| N                                      | -357 (9.07)      | -033 (0.84) | f                   | +000 (0.00)      | +096 (2.44) |
| P                                      | -345 (8.79)      | +098 (2.49) | g                   | +096 (2.44)      | +000 (0.00) |
| R                                      | -286 (7.26)      | +217 (5.51) | h                   | +000 (0.00)      | -096 (2.44) |
| S                                      | -189 (4.80)      | +305 (7.75) | j                   | -096 (2.44)      | +000 (0.00) |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 19         | -32             | 32                 | 20            | I              | All              | MS20054-32 |

Panel Cutout



| Dim | Nominal    |
|-----|------------|
| ØA  | 32.96 min  |
| ØAA | 28.98 min  |
| R1  | 29.36      |
| ØT  | 3.25 ±0.13 |

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