



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Aluminium
- 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 without Souriau contacts
- Temperature Range : -65°C to +175°C
- Salt Spray : 500 hours

| 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                   | 20.83+0/-1.25 |
| W                   | 2.1/2.5       |
| Z                   | 31.5 Max      |
| VV THREAD           | M28x1-6g      |

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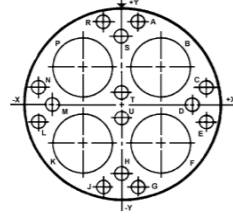
|         |                             |
|---------|-----------------------------|
| Country | Jurisdiction & Control List |
| FR      | Not Listed                  |

**PN: 8D019W18PEL**

|                |                                       |                                |   |
|----------------|---------------------------------------|--------------------------------|---|
| A              | 02-11-2016                            | 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° 8D019W18PEL-C</b>   |
|                |                                       |                                | SHEET<br>1/2  |

|                |                          |   |   |    |   |    |   |   |   |                                 |
|----------------|--------------------------|---|---|----|---|----|---|---|---|---------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 19 | W | 18 | P | E | L | Delivered W/O Contacts          |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   |   | ORIENTATION : E                 |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   |   | CONTACT TYPE : PIN(500 Matings) |
| SHELL SIZE :   | 19                       |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 19-18          |
| PLATING :      | W = Olive drab Cadmium   |   |   |    |   |    |   |   |   |                                 |

Contact Layout



(Inactive for new design for MIL-DTL-38999. For new design, use arrangement no. 19-19.)

| Contacts<br>(Insert arrangement 19-18) |             |             |                     |             |             |                  |
|--|-------------|-------------|---------------------|-------------|-------------|------------------|
| Contact position ID                    | Location    |             | Contact position ID | Location    |             | Standard contact |
|  | X-axis (mm) | Y-axis (mm) |                     | X-axis (mm) | Y-axis (mm) |                  |
| A                                      | +068 (1.73) | +380 (9.65) | K                   | -180 (4.57) | -180 (4.57) | M39029/90-529    |
| B                                      | +180 (4.57) | +180 (4.57) | L                   | -377 (9.58) | -065 (1.65) |                  |
| C                                      | +377 (9.58) | +065 (1.65) | M                   | -317 (8.05) | +000 (0.00) | M39029/58        |
| D                                      | +317 (8.05) | +000 (0.00) | N                   | -377 (9.58) | +065 (1.65) |                  |
| E                                      | +377 (9.58) | -065 (1.65) | P                   | -180 (4.57) | +180 (4.57) | M39029/91-530    |
| F                                      | +180 (4.57) | -180 (4.57) | R                   | -068 (1.73) | +380 (9.65) |                  |
| G                                      | +068 (1.73) | -380 (9.65) | S                   | +000 (0.00) | +319 (8.10) | M39029/56        |
| H                                      | +000 (0.00) | -319 (8.10) | T                   | +000 (0.00) | +044 (1.12) |                  |
| J                                      | -068 (1.73) | -380 (9.65) | U                   | +000 (0.00) | -044 (1.12) |                  |

| Shell size | Arrangement No. | Number of contacts | Size contacts | Service rating | Contact location | Standard contact |               |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------------|---------------|
|            |                 |                    |               |                |                  | Pin              | Socket        |
| 19         | 18              | 4                  | 8 (see note)  | Twinax         | B, F, K, P       | M39029/90-529    | M39029/91-530 |
|            |                 | 14                 | 22D           | M              | All others       | M39029/58        | M39029/56     |

Panel Cutout



| Dim | Nominal    |
|-----|------------|
| ØA  | 32.94 min  |
| ØAA | 28.98 min  |
| R1  | 29.36      |
| ØT  | 3.25 ±0.13 |

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| <b>TITLE</b>   | Aluminium Receptacle 8D series      |                                |   |
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| NA             |                                     |                                |   |
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| FORMAT         | <b>SOURIAU DRG N° 8D019W18PEL-C</b> |                                | SHEET<br>2/2  |