



LAYOUT SHOWN AS EXAMPLE

Keying Shown as example

**CHARACTERISTICS**

- Standard : Based on MIL-DTL-38999 Series III
- Shell Material : Composite
- Shell Plating : Without Plating
- 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 : 2000 hours
- Mass : 32.7 g ± 10%

| Connector dimension |               |
|---------------------|---------------|
| Dim                 | Nominal       |
| P                   | 3.25±0.2      |
| PP                  | 4.93±0.2      |
| R1                  | 31.75         |
| R2                  | 29.36         |
| S                   | 39.7±0.3      |
| V                   | 20.07+0/-1.25 |
| W                   | 2.1/3.2       |
| Z                   | 31.5 Max      |
| VV THREAD           | M31x1-6g      |

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: 8D021X16SDL**

|                |                                       |                                |   |
|----------------|---------------------------------------|--------------------------------|---|
| A              | 30-09-2016                            | 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 |
| <b>SOURIAU</b> | <b>WWW.SOURIAU.COM</b>                |                                |   |
| FORMAT         | <b>A3</b>                             |                                | SOURIAU DRG N°<br><b>8D021X16SDL-C</b>  |
|                |                                       |                                | SHEET<br>1/2  |

|                |                          |   |   |    |   |    |   |   |   |                                    |
|----------------|--------------------------|---|---|----|---|----|---|---|---|------------------------------------|
| BASIC SERIES:  | 8D                       | 0 | - | 21 | X | 16 | S | D | L | Delivered W/O Contacts             |
| SHELL TYPE :   | Square Flange Receptacle |   |   |    |   |    |   |   |   | ORIENTATION : D                    |
| CONTACT TYPE : | Standard Crimp Contact   |   |   |    |   |    |   |   |   | CONTACT TYPE : SOCKET(500 Matings) |
| SHELL SIZE :   | 21                       |   |   |    |   |    |   |   |   | CONTACT LAYOUT : 21-16             |
| PLATING :      | X = Without Plating      |   |   |    |   |    |   |   |   |                                    |

Contact Layout



| Contacts<br>(Insert arrangement 21-16) |             |             |                     |             |             |
|--|-------------|-------------|---------------------|-------------|-------------|
| Contact position ID                    | Location    |             | Contact position ID | Location    |             |
|  | X-axis      | Y-axis      |                     | X-axis      | Y-axis      |
| A                                      | +118 (3.00) | +322 (8.18) | J                   | -341 (8.66) | +036 (0.91) |
| B                                      | +271 (6.88) | +211 (5.36) | K                   | -271 (6.88) | +211 (5.36) |
| C                                      | +341 (8.66) | +036 (0.91) | L                   | -118 (3.00) | +322 (8.18) |
| D                                      | +308 (7.82) | -150 (3.81) | M                   | +000 (0.00) | +175 (4.45) |
| E                                      | +182 (4.62) | -290 (7.37) | N                   | +154 (3.91) | +062 (1.57) |
| F                                      | +000 (0.00) | -343 (8.71) | P                   | +094 (2.39) | -122 (3.10) |
| G                                      | -182 (4.62) | -290 (7.37) | R                   | -094 (2.39) | -122 (3.10) |
| H                                      | -308 (7.82) | -150 (3.81) | S                   | -154 (3.91) | +062 (1.57) |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| 21         | -16             | 16                 | 16            | II             | All              | MS20055-16 |

Panel Cutout



| Dim | Nominal    |
|-----|------------|
| ØA  | 36.12 min  |
| ØAA | 32.16 min  |
| R1  | 31.75      |
| ØT  | 3.25 ±0.13 |

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| FORMAT         | <b>SOURIAU DRG N° 8D021X16SDL-C</b>   |                            | SHEET 2/2   |