

H G F E D C B A



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 with Souriau contacts and Accessories
- Temperature Range : -65°C to +175°C
- Salt Spray : 2000 hours
- Mass : 35.1 g ± 10%

| Connector dimension |          |
|---------------------|----------|
| Dim                 | Nominal  |
| ØS                  | 41.7 Max |
| Z                   | 31 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: 8D521X16PB**

|   |                                    |                                |                               |
|---|------------------------------------|--------------------------------|-------------------------------|
| A   | 11-10-2016                         | First Release                  |                               |
| ISS   | DATE                               | Latest modification - by       | MOD N°                        |
| Designed By:  |                                    | Date:                          | <b>CUSTOMER DRAWING</b>       |
| <b>TITLE</b>  |                                    | Composite Plug 8D series       |                               |
| SCALE   | NA                                 | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b> |
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| FORMAT  | <b>SOURIAU DRG N° 8D521X16PB-C</b> |                                | SHEET<br>1/2                  |

|                |                         |   |   |    |   |    |   |   |                                 |
|----------------|-------------------------|---|---|----|---|----|---|---|---------------------------------|
| BASIC SERIES:  | 8D                      | 5 | - | 21 | X | 16 | P | B | ORIENTATION : B                 |
| SHELL TYPE :   | Plug with RFI Shielding |   |   |    |   |    |   |   | CONTACT TYPE : PIN(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact  |   |   |    |   |    |   |   | CONTACT LAYOUT : 21-16          |
| SHELL SIZE :   | 21                      |   |   |    |   |    |   |   |                                 |
| PLATING :      | X = Without Plating     |   |   |    |   |    |   |   |                                 |

4  
3  
2  
1

4  
3  
2  
1

H G F E D C B A

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 |

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| NA             |                                    | ±--                        | <b>859</b>  |
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| FORMAT         | <b>SOURIAU DRG N° 8D521X16PB-C</b> |                            | SHEET 2/2   |