



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

| 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: 8D019M18PD

| | | | |
|------------------------------------|---------------------------------------|--------------------------------|---|
| A | 08-10-2016 | First Release | |
| ISS | DATE | Latest modification - by | MOD N° |
| Designed By: | | Date: | CUSTOMER DRAWING |
| TITLE | Composite Receptacle 8D series | | |
| SCALE | | General linear Tolerances: ±-- | NPRDS / PROJECT 859 |
| NA | | | This document is the property of SOURIAU it must not be reproduced or communicated without permission |
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| FORMAT | A3 | | SHEET 1/2 |
| SOURIAU DRG N° 8D019M18PD-C | | | |

| | | | | | | | | | |
|----------------|--------------------------|---|---|----|---|----|---|---|---------------------------------|
| BASIC SERIES: | 8D | 0 | - | 19 | M | 18 | P | D | ORIENTATION : D |
| SHELL TYPE : | Square Flange Receptacle | | | | | | | | CONTACT TYPE : PIN(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact | | | | | | | | CONTACT LAYOUT : 19-18 |
| SHELL SIZE : | 19 | | | | | | | | |
| PLATING : | M = Nickel | | | | | | | | |

Contact Layout



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

| Contacts (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 | 32.96 min |
| ØAA | 28.98 min |
| R1 | 29.36 |
| ØT | 3.25 ±0.13 |

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| FORMAT | SOURIAU DRG N° 8D019M18PD-C | | SHEET 2/2 |