



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 | 3.91±0.2 |
| PP | 6.15±0.2 |
| R1 | 38.1 |
| R2 | 34.93 |
| S | 46±0.3 |
| V' | 18.7+1.4/-0 |
| W' | 2.1/4.35 |
| Z' | 32 Max |
| VV THREAD | M37x1-6g |

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: 8D025M90SN

| | | | |
|---|------------------------------------|--------------------------------|-------------------------------|
| A | 17-10-2016 | First Release | |
| ISS | DATE | Latest modification - by | MOD N° |
| Designed By: | | Date: | CUSTOMER DRAWING |
| TITLE | | Composite Receptacle 8D series | |
| SCALE | NA | General linear Tolerances: ±-- | NPRDS / PROJECT 859 |
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| FORMAT | SOURIAU DRG N° 8D025M90SN-C | | SHEET 1/2 |

| | | | | | | | | | |
|----------------|--------------------------|---|---|----|---|----|---|---|------------------------------------|
| BASIC SERIES: | 8D | 0 | - | 25 | M | 90 | S | N | ORIENTATION : N |
| SHELL TYPE : | Square Flange Receptacle | | | | | | | | CONTACT TYPE : SOCKET(500 Matings) |
| CONTACT TYPE : | Standard Crimp Contact | | | | | | | | CONTACT LAYOUT : 25-50 |
| SHELL SIZE : | 25 | | | | | | | | |
| PLATING : | M = Nickel | | | | | | | | |

Contact Layout



(Inactive for new design for MIL-DTL-38999. For new design, use arrangement no. 25-91.)

| Contacts (Insert arrangement 25-90) | | | | | |
|--|--------------|--------------|---------------------|--------------|--------------|
| Contact position ID | Location | | Contact position ID | Location | |
| | X-axis (mm) | Y-axis (mm) | | X-axis (mm) | Y-axis (mm) |
| A | +065 (1.65) | +533 (13.54) | a | +404 (10.26) | +125 (3.18) |
| B | +275 (6.99) | +466 (11.84) | b | +437 (11.10) | +000 (0.00) |
| C | +420 (10.67) | +337 (8.56) | c | +404 (10.26) | -125 (3.18) |
| D | +490 (12.45) | +227 (5.77) | d | +314 (7.98) | -221 (5.61) |
| E | +531 (13.49) | +093 (2.36) | e | +245 (6.22) | -337 (8.56) |
| F | +531 (13.49) | -093 (2.36) | f | +136 (3.45) | -424 (10.77) |
| G | +490 (12.45) | -227 (5.77) | g | +000 (0.00) | -395 (10.03) |
| H | +420 (10.67) | -337 (8.56) | h | -136 (3.45) | -424 (10.77) |
| J | +275 (6.99) | -466 (11.84) | j | -245 (6.22) | -337 (8.56) |
| K | +065 (1.65) | -533 (13.54) | k | -314 (7.98) | -221 (5.61) |
| L | -065 (1.65) | -533 (13.54) | l | -404 (10.26) | -125 (3.18) |
| M | -275 (6.99) | -466 (11.84) | m | -437 (11.10) | +000 (0.00) |
| N | -420 (10.67) | -337 (8.56) | n | -404 (10.26) | +125 (3.18) |
| P | -490 (12.45) | -227 (5.77) | p | -314 (7.98) | +221 (5.61) |
| R | -531 (13.49) | -093 (2.36) | r | -245 (6.22) | +337 (8.56) |
| S | -531 (13.49) | +093 (2.36) | s | -136 (3.45) | +424 (10.77) |
| T | -490 (12.45) | +227 (5.77) | t | +000 (0.00) | +395 (10.03) |
| U | -420 (10.67) | +337 (8.56) | u | +097 (2.46) | +265 (6.73) |
| V | -275 (6.99) | +466 (11.84) | v | +180 (4.57) | +000 (0.00) |
| W | -065 (1.65) | +533 (13.54) | w | +097 (2.46) | -265 (6.73) |
| X | +136 (3.45) | +424 (10.77) | x | -097 (2.46) | -265 (6.73) |
| Y | +245 (6.22) | +337 (8.56) | y | -180 (4.57) | +000 (0.00) |
| Z | +314 (7.98) | +221 (5.61) | z | -097 (2.46) | +265 (6.73) |
| | | | AA | | |

| Shell size | Arrangement no. | Number of contacts | Size of contacts | Service rating | Contact location | Standard contact | |
|------------|-----------------|--------------------|------------------|----------------|------------------|------------------|---------------|
| | | | | | | Pin | Socket |
| 25 | -90 | 2 | 8 (see note) | Twinax | W, Z | M39029/90-529 | M39029/91-530 |
| | | 4 | 16 | I | Y, X, Y, AA | M39029/56-364 | M39029/56-352 |
| | | 40 | 20 | All others | | M39029/56-363 | M39029/56-351 |

Panel Cutout



| Dim | Nominal |
|-----|------------|
| ØA | 42.47 min |
| ØAA | 37.69 min |
| R1 | 38.1 |
| ØT | 3.81 ±0.13 |

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| TITLE | Composite Receptacle 8D series | | |
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