



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
- Mass : 50.8 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' | 18.7+1.4/-0 |
| W' | 2.1/4.35 |
| Z' | 32 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: 8D021M35BA

| | | | |
|--------------|------------|--------------------------|-------------------------|
| A | 02-11-2016 | First Release | |
| ISS | DATE | Latest modification - by | MOD N° |
| Designed By: | | Date: | CUSTOMER DRAWING |

BASIC SERIES: 8D 0 - 21 M 35 B A

SHELL TYPE : Square Flange Receptacle

CONTACT TYPE : Standard Crimp Contact

SHELL SIZE : 21

PLATING : M = Nickel

ORIENTATION : A

CONTACT TYPE : SOCKET(500 Matings)

CONTACT LAYOUT : 21-35

| | | | |
|---|------------------------------------|--------------------------------|-------------------------------|
| TITLE | | Composite Receptacle 8D series | |
| SCALE | NA | General linear Tolerances: ±-- | NPRDS / PROJECT 859 |
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| FORMAT | SOURIAU DRG N° 8D021M35BA-C | | SHEET 1/2 |

Contact Layout



| Contacts (Insert arrangement 21-35) | | | | | |
|--|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID | Location | | Contact position ID | Location | |
| | X-axis (mm) | Y-axis (mm) | | X-axis (mm) | Y-axis (mm) |
| 1 | +053 (1.35) | +426 (10.82) | 41 | -098 (2.49) | -322 (8.18) |
| 2 | +146 (3.71) | +404 (10.26) | 42 | -184 (4.67) | -280 (7.11) |
| 3 | +232 (5.89) | +362 (9.19) | 43 | -258 (6.55) | -220 (5.59) |
| 4 | -306 (7.77) | +302 (7.67) | 44 | -311 (7.90) | -141 (3.58) |
| 5 | +365 (9.27) | +227 (5.77) | 45 | -332 (8.43) | -048 (1.22) |
| 6 | +406 (10.31) | +141 (3.58) | 46 | -332 (8.43) | +048 (1.22) |
| 7 | +427 (10.85) | +048 (1.22) | 47 | -311 (7.90) | +141 (3.58) |
| 8 | +427 (10.85) | -048 (1.22) | 48 | -258 (6.55) | +220 (5.59) |
| 9 | +406 (10.31) | -141 (3.58) | 49 | -184 (4.67) | +280 (7.11) |
| 10 | +365 (9.27) | -227 (5.77) | 50 | -098 (2.49) | +322 (8.18) |
| 11 | +306 (7.77) | -302 (7.67) | 51 | -048 (1.22) | +241 (6.12) |
| 12 | +232 (5.89) | -362 (9.19) | 52 | +048 (1.22) | +241 (6.12) |
| 13 | +146 (3.71) | -404 (10.26) | 53 | +134 (3.40) | +199 (5.05) |
| 14 | +053 (1.35) | -426 (10.82) | 54 | +208 (5.28) | +139 (3.53) |
| 15 | -053 (1.35) | -426 (10.82) | 55 | +237 (6.02) | +048 (1.22) |
| 16 | -146 (3.71) | -404 (10.26) | 56 | +237 (6.02) | -048 (1.22) |
| 17 | -232 (5.89) | -362 (9.19) | 57 | +208 (5.28) | -139 (3.53) |

| Contacts (Insert arrangement 21-35) | | | | | |
|--|--------------|--------------|---------------------|-------------|-------------|
| Contact position ID | Location | | Contact position ID | Location | |
| | X-axis (mm) | Y-axis (mm) | | X-axis (mm) | Y-axis (mm) |
| 18 | -306 (7.77) | -302 (7.67) | 58 | +134 (3.40) | -199 (5.05) |
| 19 | -365 (9.27) | -227 (5.77) | 59 | +048 (1.22) | -241 (6.12) |
| 20 | -406 (10.31) | -141 (3.58) | 60 | -048 (1.22) | -241 (6.12) |
| 21 | -427 (10.85) | -048 (1.22) | 61 | -134 (3.40) | -199 (5.05) |
| 22 | -427 (10.85) | +048 (1.22) | 62 | -208 (5.28) | -139 (3.53) |
| 23 | -406 (10.31) | +141 (3.58) | 63 | -237 (6.02) | -048 (1.22) |
| 24 | -365 (9.27) | +227 (5.77) | 64 | -237 (6.02) | +048 (1.22) |
| 25 | -306 (7.77) | +302 (7.67) | 65 | -208 (5.28) | +139 (3.53) |
| 26 | -232 (5.89) | +362 (9.19) | 66 | -134 (3.40) | +199 (5.05) |
| 27 | -146 (3.71) | +404 (10.26) | 67 | -048 (1.22) | +146 (3.71) |
| 28 | -053 (1.35) | +426 (10.82) | 68 | +048 (1.22) | +146 (3.71) |
| 29 | +000 (0.00) | +323 (8.20) | 69 | +125 (3.18) | +090 (2.29) |
| 30 | +098 (2.49) | -322 (8.18) | 70 | +155 (3.94) | +000 (0.00) |
| 31 | +184 (4.67) | -280 (7.11) | 71 | +125 (3.18) | -090 (2.29) |
| 32 | +258 (6.55) | -220 (5.59) | 72 | +048 (1.22) | -146 (3.71) |
| 33 | +311 (7.90) | +141 (3.58) | 73 | -048 (1.22) | -146 (3.71) |
| 34 | +332 (8.43) | +048 (1.22) | 74 | -125 (3.18) | -090 (2.29) |
| 35 | +332 (8.43) | -048 (1.22) | 75 | -155 (3.94) | +000 (0.00) |
| 36 | +311 (7.90) | -141 (3.58) | 76 | -125 (3.18) | +090 (2.29) |
| 37 | +258 (6.55) | -220 (5.59) | 77 | +000 (0.00) | +053 (1.35) |
| 38 | +184 (4.67) | -280 (7.11) | 78 | +048 (1.22) | -029 (0.74) |
| 39 | +098 (2.49) | -322 (8.18) | 79 | -048 (1.22) | -029 (0.74) |
| 40 | +000 (0.00) | -347 (8.81) | --- | --- | --- |

| (Applicable to MIL-DTL-38999 only) | | | | | | |
|------------------------------------|-----------------|--------------------|---------------|----------------|------------------|------------|
| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location | Supersedes |
| 21 | -35 | 79 | 22D | M | ALL | MS27531-35 |

Panel Cutout



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

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

PN: 8D021M35BA

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|----------------|---------------------------------------|---|-------------------------------|
| A | 02-11-2016 | 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 |
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