



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 : 75.1 g ± 10%

| 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                   | 20.07+0/-1.25 |
| W                   | 2.1/3.2       |
| Z                   | 31.5 Max      |
| VV THREAD           | M37x1-6g      |

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

**PN: 8D025X43BA**

|              |            |                          |                         |
|--------------|------------|--------------------------|-------------------------|
| A            | 09-10-2016 | First Release            |                         |
| ISS          | DATE       | Latest modification - by | MOD N°                  |
| Designed By: |            | Date:                    | <b>CUSTOMER DRAWING</b> |

BASIC SERIES: 8D 0 - 25 X 43 B A

SHELL TYPE : Square Flange Receptacle

CONTACT TYPE : Standard Crimp Contact

SHELL SIZE : 25

PLATING : X = Without Plating

ORIENTATION : A

CONTACT TYPE : SOCKET(500 Matings)

CONTACT LAYOUT : 25-43

|                                    |                                |                                |                                                                                                       |
|------------------------------------|--------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>TITLE</b>                       | Composite Receptacle 8D series |                                |                                                                                                       |
| SCALE                              | NA                             | General linear Tolerances: ±-- | NPRDS / PROJECT<br><b>859</b>                                                                         |
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| FORMAT                             | <b>A3</b>                      |                                | SHEET<br>1/2                                                                                          |
| <b>SOURIAU DRG N° 8D025X43BA-C</b> |                                |                                |                                                                                                       |

Contact Layout



| Contacts<br>(Insert arrangement 25-43) |              |              |                     |             |              |
|----------------------------------------|--------------|--------------|---------------------|-------------|--------------|
| Contact position ID                    | Location     |              | Contact position ID | Location    |              |
|                                        | X-axis (mm)  | Y-axis (mm)  |                     | X-axis (mm) | Y-axis (mm)  |
| A                                      | +069 (1.75)  | +531 (13.49) | Z                   | -069 (1.75) | +531 (13.49) |
| B                                      | +203 (5.16)  | +495 (12.57) | a                   | +172 (4.37) | +344 (8.74)  |
| C                                      | +324 (8.23)  | +425 (10.80) | b                   | +258 (6.55) | +172 (4.37)  |
| D                                      | +424 (10.77) | +326 (8.28)  | c                   | +344 (8.74) | +000 (0.00)  |
| E                                      | +493 (12.52) | +205 (5.21)  | d                   | +344 (8.74) | -172 (4.37)  |
| F                                      | +531 (13.49) | +069 (1.75)  | e                   | +172 (4.37) | -344 (8.74)  |
| G                                      | +531 (13.49) | -069 (1.75)  | f                   | +000 (0.00) | -344 (8.74)  |
| H                                      | +493 (12.52) | -205 (5.21)  | g                   | -172 (4.37) | -344 (8.74)  |
| J                                      | +424 (10.77) | -326 (8.28)  | h                   | -344 (8.74) | -172 (4.37)  |
| K                                      | +324 (8.23)  | -425 (10.80) | k                   | -344 (8.74) | +000 (0.00)  |
| L                                      | +203 (5.16)  | -495 (12.57) | m                   | -258 (6.55) | +172 (4.37)  |
| M                                      | +000 (0.00)  | -531 (13.49) | n                   | -172 (4.37) | +344 (8.74)  |
| N                                      | -203 (5.16)  | -495 (12.57) | p                   | +000 (0.00) | +344 (8.74)  |
| P                                      | -324 (8.23)  | -425 (10.80) | q                   | +086 (2.18) | +172 (4.37)  |
| R                                      | -424 (10.77) | -326 (8.28)  | r                   | +172 (4.37) | +000 (0.00)  |
| S                                      | -493 (12.52) | -205 (5.21)  | s                   | +172 (4.37) | -172 (4.37)  |
| T                                      | -531 (13.49) | -069 (1.75)  | t                   | +000 (0.00) | -172 (4.37)  |
| U                                      | -531 (13.49) | +069 (1.75)  | u                   | -172 (4.37) | -172 (4.37)  |
| V                                      | -493 (12.52) | +205 (5.21)  | v                   | -172 (4.37) | +000 (0.00)  |
| W                                      | -424 (10.77) | +326 (8.28)  | w                   | -086 (2.18) | +172 (4.37)  |
| X                                      | -324 (8.23)  | +425 (10.80) | x                   | +000 (0.00) | +000 (0.00)  |
| Y                                      | -203 (5.16)  | +495 (12.57) |                     |             |              |

| Shell size | Arrangement no. | Number of contacts | Size contacts | Service rating | Contact location                                          | Supersedes |
|------------|-----------------|--------------------|---------------|----------------|-----------------------------------------------------------|------------|
| 25         | 43              | 20                 | 16            | I              | a.b.c.d.e.f.g.h.k.m.<br>n.p.q.r.s.t.u.v.w.x<br>All others | MS20057-43 |
|            |                 | 23                 | 20            |                |                                                           |            |

Panel Cutout



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

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| 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                                                                                       |
| NA             |                                       | ±--                        | <b>859</b>                                                                                            |
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| FORMAT         | <b>SOURIAU DRG N° 8D025X43BA-C</b>    |                            | SHEET 2/2                                                                                             |