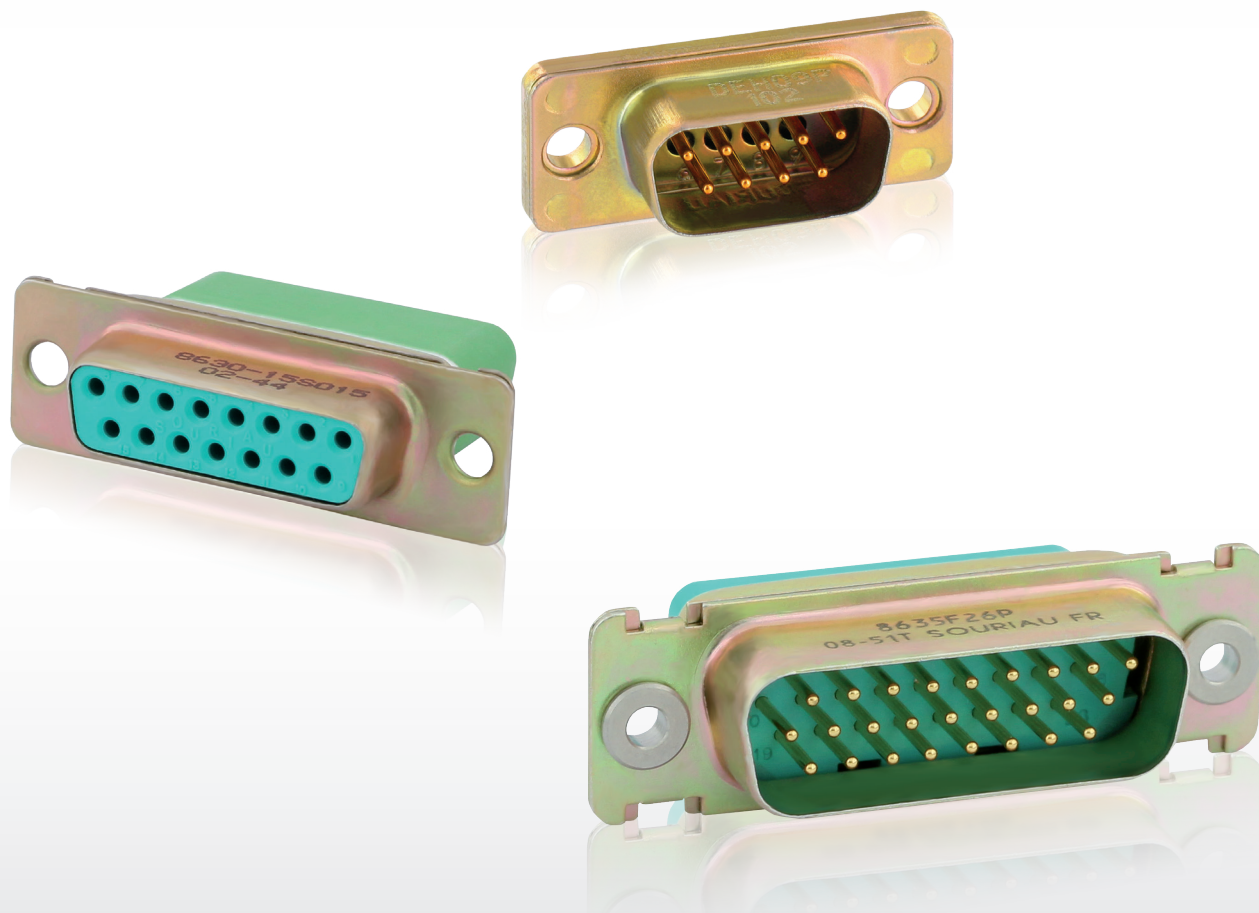




## Rectangular Miniature Connectors

### HE 501 / HE 508 / MIL-C 24308

**Алматы** (7273)495-231  
**Ангарск** (3955)60-70-56  
**Архангельск** (8182)63-90-72  
**Астрахань** (8512)99-46-04  
**Барнаул** (3852)73-04-60  
**Белгород** (4722)40-23-64  
**Благовещенск** (4162)22-76-07  
**Брянск** (4832)59-03-52  
**Владивосток** (423)249-28-31  
**Владикавказ** (8672)28-90-48  
**Владимир** (4922)49-43-18  
**Волгоград** (844)278-03-48  
**Вологда** (8172)26-41-59  
**Воронеж** (473)204-51-73  
**Екатеринбург** (343)384-55-89

**Иваново** (4932)77-34-06  
**Ижевск** (3412)26-03-58  
**Иркутск** (395)279-98-46  
**Казань** (843)206-01-48  
**Калининград** (4012)72-03-81  
**Калуга** (4842)92-23-67  
**Кемерово** (3842)65-04-62  
**Киров** (8332)68-02-04  
**Коломна** (4966)23-41-49  
**Кострома** (4942)77-07-48  
**Краснодар** (861)203-40-90  
**Красноярск** (391)204-63-61  
**Курск** (4712)77-13-04  
**Курган** (3522)50-90-47  
**Липецк** (4742)52-20-81

**Магнитогорск** (3519)55-03-13  
**Москва** (495)268-04-70  
**Мурманск** (8152)59-64-93  
**Набережные Челны** (8552)20-53-41  
**Нижний Новгород** (831)429-08-12  
**Новокузнецк** (3843)20-46-81  
**Ноябрьск** (3496)41-32-12  
**Новосибирск** (383)227-86-73  
**Омск** (3812)21-46-40  
**Орел** (4862)44-53-42  
**Оренбург** (3532)37-68-04  
**Пенза** (8412)22-31-16  
**Петрозаводск** (8142)55-98-37  
**Псков** (8112)59-10-37  
**Пермь** (342)205-81-47

**Ростов-на-Дону** (863)308-18-15  
**Рязань** (4912)46-61-64  
**Самара** (846)206-03-16  
**Санкт-Петербург** (812)309-46-40  
**Саратов** (845)249-38-78  
**Севастополь** (8692)22-31-93  
**Саранск** (8342)22-96-24  
**Симферополь** (3652)67-13-56  
**Смоленск** (4812)29-41-54  
**Сочи** (862)225-72-31  
**Ставрополь** (8652)20-65-13  
**Сургут** (3462)77-98-35  
**Сыктывкар** (8212)25-95-17  
**Тамбов** (4752)50-40-97  
**Тверь** (4822)63-31-35

**Тольятти** (8482)63-91-07  
**Томск** (3822)98-41-53  
**Тула** (4872)33-79-87  
**Тюмень** (3452)66-21-18  
**Ульяновск** (8422)24-23-59  
**Улан-Удэ** (3012)59-97-51  
**Уфа** (347)229-48-12  
**Хабаровск** (4212)92-98-04  
**Чебоксары** (8352)28-53-07  
**Челябинск** (351)202-03-61  
**Череповец** (8202)49-02-64  
**Чита** (3022)38-34-83  
**Якутск** (4112)23-90-97  
**Ярославль** (4852)69-52-93

Россия +7(495)268-04-70

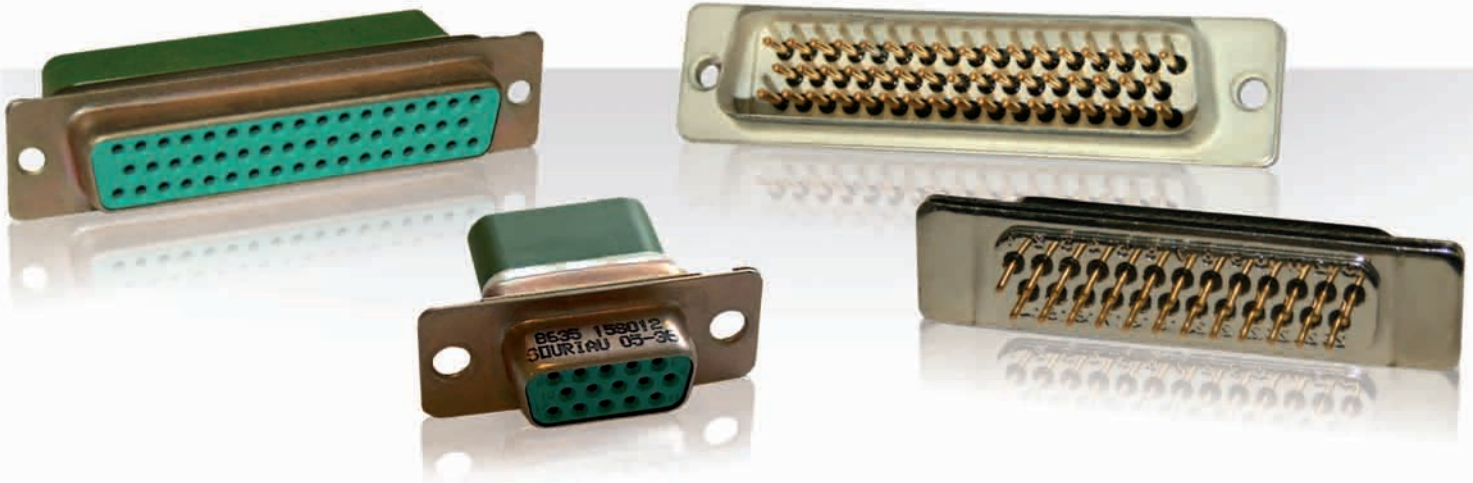
Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://souriau.nt-rt.ru/> || [sur@nt-rt.ru](mailto:sur@nt-rt.ru)



# D-Subminiature Series



## Presentation

- Souriau D-Sub connectors are used for military/aerospace applications and in industrial field: information systems, communication systems, industrial electronic...
- D-Sub connectors are designed to ensure the connection function in all applications where weight and dimension are very important.
- They are especially used as Input/Output connectors in interface fonctions. So, they are subjects to mechanical constraints that are sometimes severes.
- In order to prevent risks (pulling up, accidental unmating...), a large range of accessories is supplied.

## Contents

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- Technical characteristics ..... 07
- Layouts ..... 08
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### Series

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## D-Subminiature Series

# Overview

|                                        |    |
|----------------------------------------|----|
| ■ D-Sub Mark III standard ranges ..... | 06 |
| ■ Technical characteristics .....      | 07 |
| ■ Layouts .....                        | 08 |
| ■ PCB drilling dimensions .....        | 09 |

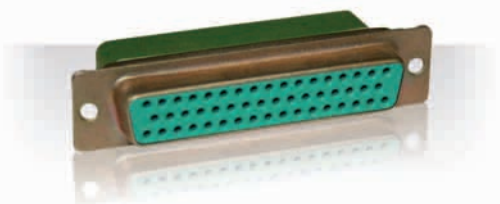
# D-Subminiature Series



## D-Sub Mark III standard ranges

### 8630 Series HE 501

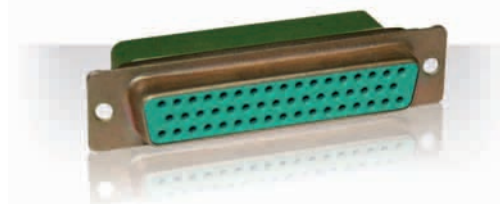
See page 12



- ▶ Up to 125 °C
- ▶ Crimped contact #20

### 8630 Series HE 508

See page 14



- ▶ Up to 155 °C
- ▶ Crimped contact #20

### SMA MIL-C Series

See page 16



- ▶ According to MIL-C- 24308
- ▶ Crimped contact #20

### 8635 Series

See page 19



- ▶ High Density
- ▶ Individual glass bead
- ▶ Straight spills & Crimped contact #22

### Hermetic Series

See page 21



- ▶ Solder buckets and eyelets
- ▶ Straight spills & Crimped contact #20
- ▶ Hermeticity level:  $10^{-7}$  atm.cm<sup>3</sup>/s
- ▶ Individual glass bead

# D-Subminiature Series



## Technical characteristics

| Characteristics \ Series |                                            | 8630 HE501                        | 8630 HE508                        | SMA MIL                     | 8635 High Density                 | Hermetic                                                                                          |
|--------------------------|--------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------|
|                          |                                            | Crimp version                     | Crimp version                     | Crimp version               | Crimp or PCB version              | Solder or PCB version                                                                             |
| Environmental            | Temperature                                | -55°C to +125°C                   | -55°C to +155°C                   | -55°C to +125°C             | -55°C to +155°C                   | -55°C to +125°C                                                                                   |
|                          | Salt spray                                 | 48h (cadmium)<br>24h (tin & zinc) | 48h (cadmium)<br>24h (tin & zinc) | 48h (cadmium)               | 48h (cadmium)<br>24h (tin & zinc) | 48h (cadmium)                                                                                     |
|                          | Damp heat                                  | 56 days                           | 56 days                           | 56 days                     | 56 days                           | 56 days                                                                                           |
|                          | Sealing version                            | No                                | Yes                               | No                          | Yes                               | Yes                                                                                               |
|                          | Hermeticity                                | -                                 | -                                 | -                           | -                                 | Under air helium differential pressure, leakage $\leq 1.04 \times 10^{-5}$ Atm.cm <sup>3</sup> /s |
| Standard                 | NFC 93425                                  | HE501                             | HE508                             | -                           | -                                 | -                                                                                                 |
|                          | MIL C 24308 C                              | -                                 | -                                 | Compliant to MIL            | Compliant to MIL                  | Compliant to MIL                                                                                  |
| Material                 | Shell                                      | Steel                             | Steel                             | Steel                       | Steel                             | Steel                                                                                             |
|                          | Housing                                    | Thermoplastic                     | Thermodur                         | Thermoplastic               | Thermodur                         | Glass bead                                                                                        |
|                          | Contact                                    | Copper alloy                      | Copper alloy                      | Copper alloy                | Copper alloy                      | Ferrous alloy                                                                                     |
| Plating                  | Shell                                      | Cadmium<br>Tin<br>Zinc            | Cadmium<br>Tin<br>Zinc            | Cadmium                     | Cadmium<br>Tin<br>Zinc            | Cadmium<br>Gold<br>Tin bright<br>Tin mat<br>Nickel                                                |
|                          | Contact                                    | Gold over nickel                  | Gold over nickel                  | Gold over nickel            | Gold over nickel                  | Gold<br>Tin mat<br>Nickel                                                                         |
| Electrical               | Contact rating (max)                       | 7.5 A                             | 7.5 A                             | 7.5 A                       | 5 A                               | 5 A                                                                                               |
|                          | Test voltage Max Vrms/50Hz                 | 1000 Vrms                         | 1000 Vrms                         | 1000 Vrms                   | 1000 Vrms                         | 750 Vrms                                                                                          |
|                          | Nominal voltage Vrms/50Hz                  | 300 Vrms                          | 300 Vrms                          | 300 Vrms                    | 300 Vrms                          | N/A                                                                                               |
|                          | Insulation resistance                      | $\geq 5000 \text{ M}\Omega$       | $\geq 5000 \text{ M}\Omega$       | $\geq 5000 \text{ M}\Omega$ | $\geq 5000 \text{ M}\Omega$       | $\geq 5000 \text{ M}\Omega$                                                                       |
|                          | Contact resistance                         | $\leq 7.3 \text{ m}\Omega$        | $\leq 7.3 \text{ m}\Omega$        | $\leq 7.3 \text{ m}\Omega$  | $\leq 7.3 \text{ m}\Omega$        | $\leq 14 \text{ m}\Omega$                                                                         |
| Mechanical & Dimensional | Insertion/extraction force per contact (N) | 5N max/0.3 min                    | 5N max/0.3 min                    | 5N max/0.3 min              | 5N max/0.3 min                    | N/A                                                                                               |
|                          | Endurance                                  | 500                               | 500                               | 500                         | 500                               | 500                                                                                               |
|                          | Contact Ø                                  | 1 mm                              | 1 mm                              | 1 mm                        | 0.76 mm                           | 1 mm                                                                                              |
| Wire                     | Wire gauge                                 | AWG 20 to 28                      | AWG 20 to 28                      | AWG 20 to 24                | AWG 22 to 28                      | N/A                                                                                               |
|                          | Max Ø over insulator                       | 1.7 mm                            | 1.7 mm                            | 1.7 mm                      | 1.4 mm                            | N/A                                                                                               |
| Indents version          |                                            | Available                         | Available                         | N/A                         | Available                         | N/A                                                                                               |

# D-Subminiature Series

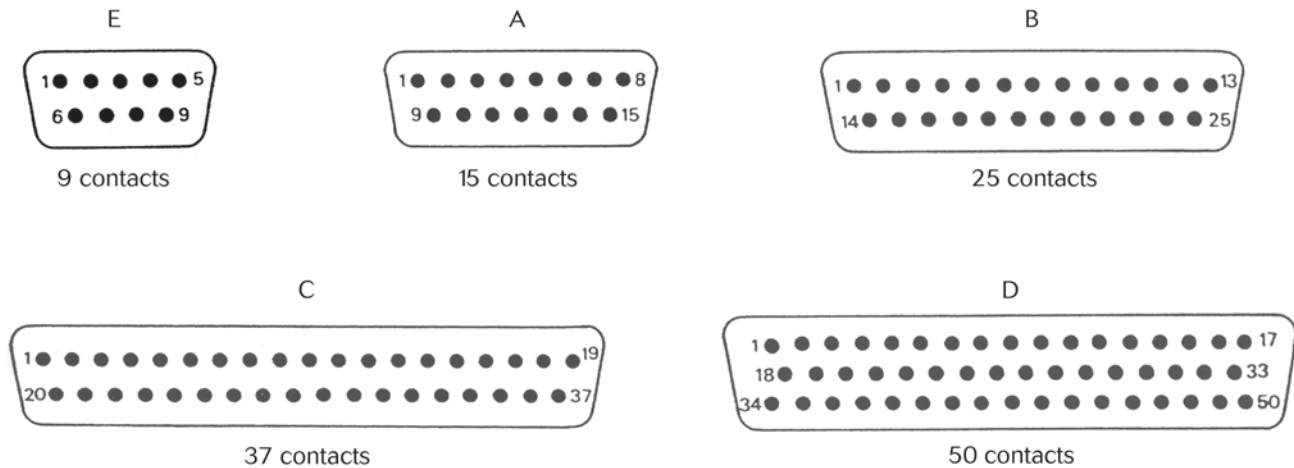


## Layouts

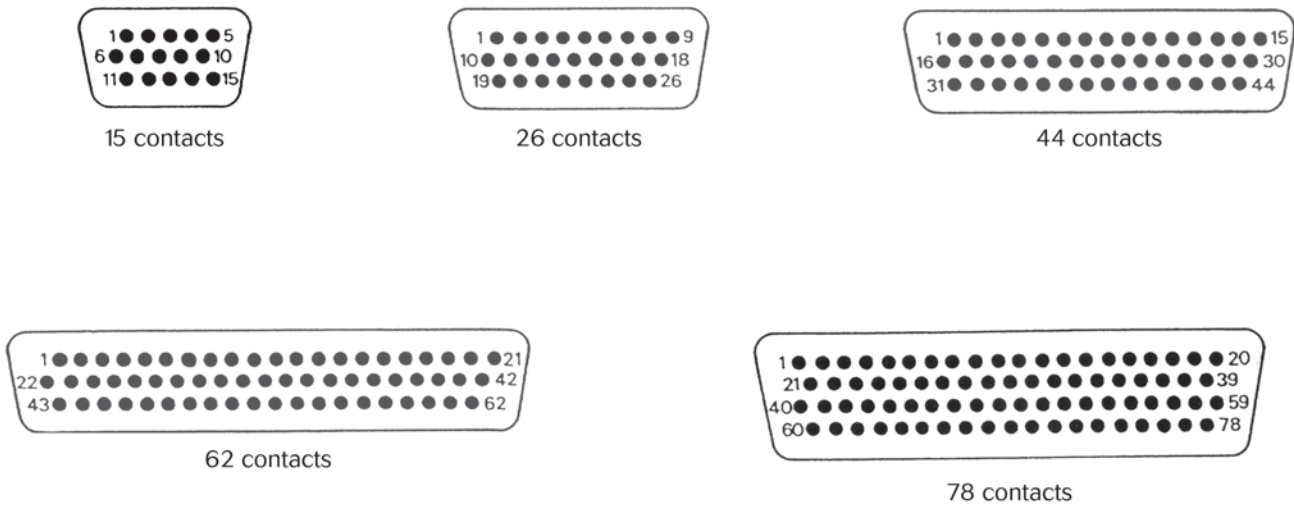
### Male insulator front view

Contacts are individually numbered on both side of insulator.

### Standard connectors: 8630/1 (HE501/HE508), SMA and Hermetic



### High density connectors: 8635



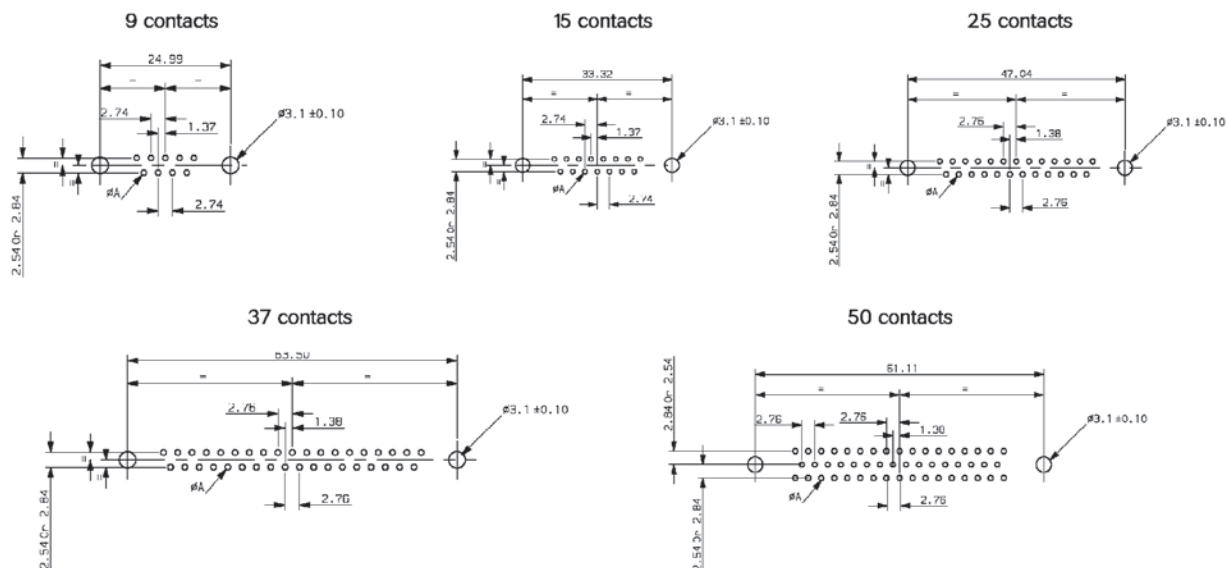
# D-Subminiature Series



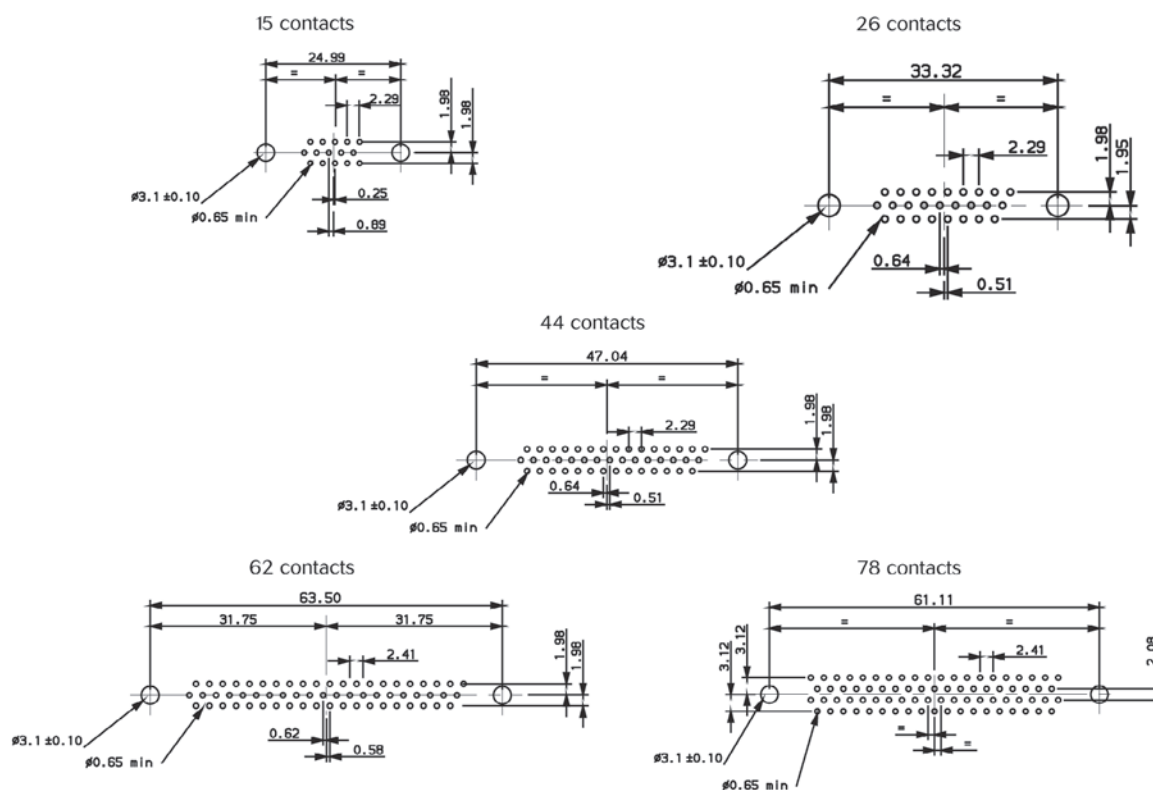
## PCB drilling dimensions (mm) for solder version

### Standard connectors: 8630/1 (HE501/HE508), SMA and Hermetic

Note:  $\varnothing A = 0.9\text{mm}$  for HE501, HE508 and MIL C.



### High density connectors: 8635



## D-Subminiature Series

# Series

|                                   |    |
|-----------------------------------|----|
| ■ 8630 Series HE501 .....         | 12 |
| ■ 8630 Series HE508 .....         | 14 |
| ■ SMA MIL-C Series .....          | 16 |
| ■ 8635 Series .....               | 19 |
| ■ D-Sub hermetic connectors ..... | 21 |



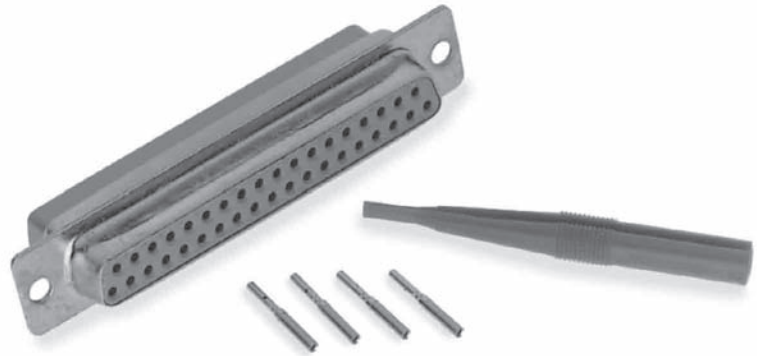


# D-Subminiature Series

## 8630 Series HE501

**Connector accomodating  
removable machined crimp  
contacts for 20/24 or  
26/28 AWG wires**

In compliance with NFC 93425/HE501  
Standard shell plating: Cadmium  
Other platings: Tin & Zinc



## Ordering information

|                                                       |      |    |   |   |
|-------------------------------------------------------|------|----|---|---|
| Basic Series                                          | 8630 | 25 | P | L |
| Basic Series (float mounting)                         | 8631 | 25 | P | L |
| Option                                                |      |    |   |   |
| None: Standard                                        |      |    |   |   |
| L: Clinch nut M3 (8630 only)                          |      |    |   |   |
| O: Clinch nut UNC 4.40 (8630 only)                    |      |    |   |   |
| V: Female screw lock UNC 4.40 (8630 only)             |      |    |   |   |
| Number of contacts                                    |      |    |   |   |
| 09, 15, 25, 37, 50                                    |      |    |   |   |
| Contact type                                          |      |    |   |   |
| P: Pin                                                |      |    |   |   |
| S: Socket                                             |      |    |   |   |
| Contacts                                              |      |    |   |   |
| None: With standard 20/24 AWG contacts                |      |    |   |   |
| L: Without contacts                                   |      |    |   |   |
| Rear type                                             |      |    |   |   |
| None: Standard                                        |      |    |   |   |
| H: Shielding termination fingers (only for T plating) |      |    |   |   |
| Shell plating                                         |      |    |   |   |
| None: Cadmium                                         |      |    |   |   |
| T: Tin                                                |      |    |   |   |
| Z: Zinc                                               |      |    |   |   |
| Front type                                            |      |    |   |   |
| None: Standard                                        |      |    |   |   |
| X: With indents (only for front of male connector)    |      |    |   |   |

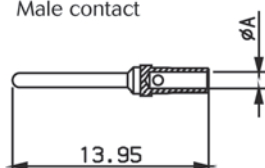
# D-Subminiature Series



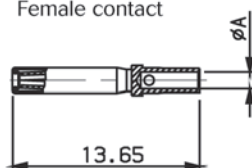
## 8630 Series HE501

### Removable crimp contact ordering information

Male contact



Female contact



| AWG       | Pin       | Socket    | ØA   |
|-----------|-----------|-----------|------|
| AWG 26/28 | 8631-4111 | 8631-6121 | 0.6  |
| AWG 20/24 | 8630-162  | 8630-165  | 1.17 |

### Cross reference list for qualified part number HE501 & SOURIAU

Examples:

HE501 F 25 BP = 8631 25 P

HE501 N 37 BS = 8630 37 S

| Connector type                  |                | HE501  | SOURIAU Reference |
|---------------------------------|----------------|--------|-------------------|
| Removal crimp contact AWG 20/24 | Standard       | Pin    | HE501 N ** BP     |
|                                 |                | Socket | HE501 N ** BS     |
|                                 | Float mounting | Pin    | HE501 F ** BP     |
|                                 |                | Socket | HE501 F ** BS     |

## Connector accomodating removable machined crimp contacts for 20/24 AWG wires

This image displays a variety of industrial tools and components. At the top is a long-handled probe with a black and grey ergonomic handle and a thin metal shaft. Below it are two different styles of multi-pin electrical connectors, each with a metal housing and a mounting bracket. In front of these connectors are several individual pins of varying lengths and shapes, likely used for testing or repair work.

| Basic Series                                                                                                               | 863 | 0 | 25 | P | 012 | L | N |
|----------------------------------------------------------------------------------------------------------------------------|-----|---|----|---|-----|---|---|
| <b>Option</b><br>0: Standard mounting holes (Ø=3.10)<br>1: Float mounting                                                  |     |   |    |   |     |   |   |
| <b>Number of contacts</b><br>09, 15, 25, 37, 50                                                                            |     |   |    |   |     |   |   |
| <b>Contact type</b><br>P: Pin<br>S: Socket                                                                                 |     |   |    |   |     |   |   |
| <b>Specification</b><br>None: Standard<br>012: Splash proof<br>015: Dust proof                                             |     |   |    |   |     |   |   |
| <b>Contacts</b><br>None: With standard 20/24 AWG contacts<br>L: Without contact                                            |     |   |    |   |     |   |   |
| <b>HE508 coding</b><br>N: Mandatory for standard version (not for 012 Splash proof version and for 015 Dust proof version) |     |   |    |   |     |   |   |
| <b>Rear type</b><br>None: Standard<br>H: Shielding termination fingers (only for T plating)                                |     |   |    |   |     |   |   |
| <b>Shell plating</b><br>None: Cadmium<br>T: Tin<br>Z: Zinc                                                                 |     |   |    |   |     |   |   |
| <b>Front type</b><br>None: Standard<br>X: With indents (only for front of male connector)                                  |     |   |    |   |     |   |   |

# D-Subminiature Series



## 8630 Series HE508

### Cross reference list for qualified part number HE508 & SOURIAU

Example:

HE508 N 25 BP = 8630 25 PN

| Connector type                     |                | HE508  | SOURIAU Ref   |
|------------------------------------|----------------|--------|---------------|
| Removal crimp<br>contact AWG 20/24 | Standard       | Pin    | HE508 N ** BP |
|                                    |                | Socket | HE508 N ** BS |
|                                    | Float mounting | Pin    | HE508 F ** BP |
|                                    |                | Socket | HE508 F ** BS |

### Special proof versions (available in HE508 Series only)

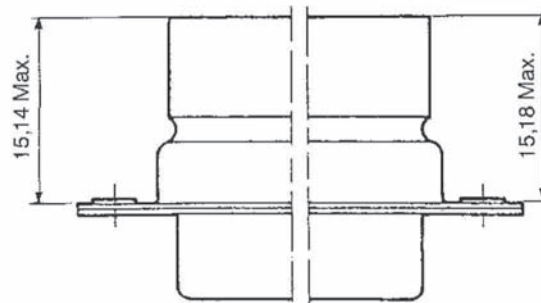
Examples:

8630 25 P012

**012:** Splash proof version, grommet + potting = male interface seal conform to IP65.

8630 25 P015

**015:** Dust proof version, rear grommet only.





# D-Subminiature Series

## SMA MIL-C Series

**According to MIL C 24308 C**  
**Connector accomodating**  
**removable machined crimp**  
**contacts for 20/24 AWG wires**

Class -55°C to +125°C  
 Shell plating: Cadmium  
 Contact #20



## Ordering information

|                                                               |   |   |    |  |    |   |   |   |
|---------------------------------------------------------------|---|---|----|--|----|---|---|---|
| Basic Series                                                  | S | B | MA |  | 25 | P | L | N |
| Shell size<br>E, A, B, C, D                                   |   |   |    |  |    |   |   |   |
| S-MA Series<br>MA: Mandatory                                  |   |   |    |  |    |   |   |   |
| Option<br>None: Standard<br>F: Float mounting                 |   |   |    |  |    |   |   |   |
| Number of contacts<br>09, 15, 25, 37, 50                      |   |   |    |  |    |   |   |   |
| Type<br>P: Pin<br>S: Socket                                   |   |   |    |  |    |   |   |   |
| Contact<br>None: With MIL contacts<br>L: Without MIL contacts |   |   |    |  |    |   |   |   |
| QPL version<br>N: Mandatory for classified QPL version        |   |   |    |  |    |   |   |   |

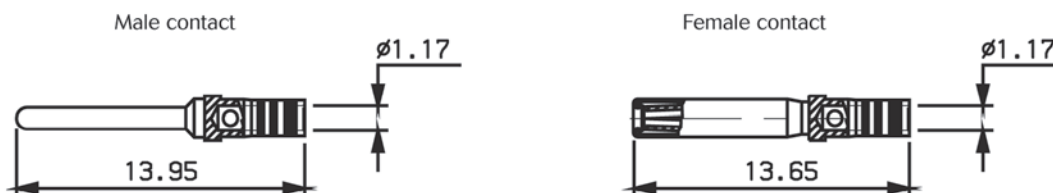
Diameter of insulator cable max: 1.6 mm.

# D-Subminiature Series



## SMA MIL-C Series

### Crimp contact for AWG 20/24 wire



### MIL C 24308 C contact

| AWG   | Contact type | SOURIAU P/N | Reference     | Colour code       |
|-------|--------------|-------------|---------------|-------------------|
| 20/24 | Pin          | 8630 3020 A | M39029/64-369 | Orange/Blue/White |
|       | Socket       | 8630 3022 A | M39029/63-368 | Orange/Blue/Grey  |

### Tool part number for 8630 Series



| Tools                   | PN | Standard    | SOURIAU   |
|-------------------------|----|-------------|-----------|
|                         |    | M22520/2-01 | 8476-01   |
| Locator                 |    | M22520/2-08 | 8476-08   |
| Extraction plastic tool |    | -           | 8630-06A  |
| MIL extraction tool     |    | M81969/1-02 | 8630-3330 |

# D-Subminiature Series



## SMA MIL-C Series

### MIL Vs SOURIAU cross reference

| Connector type                 | Male connector |           | Female connector |            |
|--------------------------------|----------------|-----------|------------------|------------|
|                                | MIL C 24308 C  | SOURIAU   | MIL C 24308 C    | SOURIAU    |
| Standard with contact          | M24308/4-1F    | SEMA09PN  | M24308/2-1F      | SEMA09SN   |
|                                | M24308/4-2F    | SAMA15PN  | M24308/2-2F      | SAMA15SN   |
|                                | M24308/4-3F    | SBMA25PN  | M24308/2-3F      | SBMA25SN   |
|                                | M24308/4-4F    | SCMA37PN  | M24308/2-4F      | SCMA37SN   |
|                                | M24308/4-5F    | SDMA50PN  | M24308/2-5F      | SDMA50SN   |
| Standard without contact       | M24308/4-259F  | SEMA09PLN | M24308/2-281F    | SEMA09SLN  |
|                                | M24308/4-260F  | SAMA15PLN | M24308/2-282F    | SAMA15SLN  |
|                                | M24308/4-261F  | SBMA25PLN | M24308/2-283F    | SBMA25SLN  |
|                                | M24308/4-262F  | SCMA37PLN | M24308/2-284F    | SCMA37SLN  |
|                                | M24308/4-263F  | SDMA50PLN | M24308/2-285F    | SDMA50SLN  |
| Float mounting with contact    | M24308/4-302F  | SEMAF09PN | M24308/2-342F    | SEMAF09SN  |
|                                | M24308/4-303F  | SAMAF15PN | M24308/2-343F    | SAMAF15SN  |
|                                | M24308/4-304F  | SBMAF25PN | M24308/2-344F    | SBMAF25SN  |
|                                | M24308/4-305F  | SCMAF37PN | M24308/2-345F    | SCMAF37SN  |
|                                | M24308/4-306F  | SDMAF50PN | M24308/2-346F    | SDMAF50SN  |
| Float mounting without contact |                |           | M24308/2-482F    | SEMAF09SLN |
|                                |                |           | M24308/2-483F    | SAMAF15SLN |
|                                |                |           | M24308/2-484F    | SBMAF25SLN |
|                                |                |           | M24308/2-485F    | SCMAF37SLN |
|                                |                |           | M24308/2-486F    | SDMAF50SLN |



# D-Subminiature Series

## 8635 Series

### High density connector

SOURIAU 8635 connector for aerospace and military applications offer high density (size 22) crimp and straight spill contacts in standard A, B, C, D, E shells.

The 8635 connector meet the requirements of MIL C 24308 dust and splash proof specifications.

Standard shell plating: Cadmium  
Other platings: Tin & Zinc



## Ordering information

|                                                       |      |    |   |     |   |  |  |  |  |
|-------------------------------------------------------|------|----|---|-----|---|--|--|--|--|
| Basic Series                                          | 8635 | 44 | P | 012 | L |  |  |  |  |
| <b>Option</b>                                         |      |    |   |     |   |  |  |  |  |
| None: Standard mounting holes (Ø=3.10)                |      |    |   |     |   |  |  |  |  |
| F: Float mounting                                     |      |    |   |     |   |  |  |  |  |
| L: Clinch nut M3                                      |      |    |   |     |   |  |  |  |  |
| O: Clinch nut UMC 4.40                                |      |    |   |     |   |  |  |  |  |
| V: Female screw lock UNC 4.40                         |      |    |   |     |   |  |  |  |  |
| <b>Number of contacts</b>                             |      |    |   |     |   |  |  |  |  |
| 15, 26, 44, 62, 78                                    |      |    |   |     |   |  |  |  |  |
| <b>Contact type</b>                                   |      |    |   |     |   |  |  |  |  |
| P: Pin                                                |      |    |   |     |   |  |  |  |  |
| S: Socket                                             |      |    |   |     |   |  |  |  |  |
| <b>Specification</b>                                  |      |    |   |     |   |  |  |  |  |
| None: Standard                                        |      |    |   |     |   |  |  |  |  |
| 012: Splash proof                                     |      |    |   |     |   |  |  |  |  |
| 015: Dust proof                                       |      |    |   |     |   |  |  |  |  |
| 017: Straight spills                                  |      |    |   |     |   |  |  |  |  |
| <b>Contacts</b>                                       |      |    |   |     |   |  |  |  |  |
| None: With standard 20/24 AWG contacts                |      |    |   |     |   |  |  |  |  |
| L: Without contact                                    |      |    |   |     |   |  |  |  |  |
| <b>Rear type</b>                                      |      |    |   |     |   |  |  |  |  |
| None: Standard                                        |      |    |   |     |   |  |  |  |  |
| H: Shielding termination fingers (only for T plating) |      |    |   |     |   |  |  |  |  |
| <b>Shell plating</b>                                  |      |    |   |     |   |  |  |  |  |
| None: Cadmium                                         |      |    |   |     |   |  |  |  |  |
| T: Tin                                                |      |    |   |     |   |  |  |  |  |
| Z: Zinc                                               |      |    |   |     |   |  |  |  |  |
| <b>Front type</b>                                     |      |    |   |     |   |  |  |  |  |
| None: Standard                                        |      |    |   |     |   |  |  |  |  |
| X: With indents (only for front of male connector)    |      |    |   |     |   |  |  |  |  |

Diameter of insulator cable max: 1.4 mm.



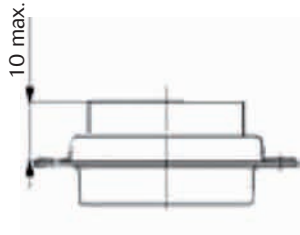
# D-Subminiature Series



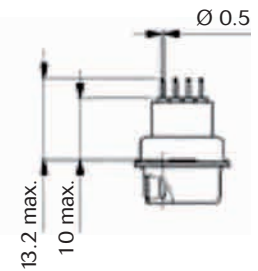
## 8635 Series

### Dimensions

Standard version  
(crimp contacts)



Straight spill version  
(spec 017)



### Contact part numbers

|             | Type   | Part number |
|-------------|--------|-------------|
| Standard    | Pin    | 8635-4100   |
|             | Socket | 8635-9100   |
| MIL C 24308 | Pin    | 8635-4110   |
|             | Socket | 8635-9110   |

### Tooling part numbers

| Contact size | Contact type | Plier Part number |             | Locator Part number |             | Plastic insertion/extraction tool Part number |
|--------------|--------------|-------------------|-------------|---------------------|-------------|-----------------------------------------------|
|              |              | Souriau           | Standard    | Souriau             | Standard    | Standard                                      |
| #22D         | Pin          | 8476-01           | M22520/2-01 | 8476-09             | M22520/2-09 | M81969 14-01                                  |
|              | Socket       |                   |             | 8476-06             | M22520/2-06 |                                               |

# D-Subminiature Series



## D-Sub hermetic connectors

### D-Sub hermetic connector

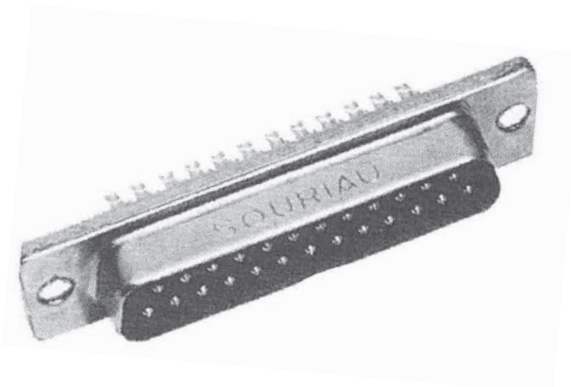
Hermetic rectangular connectors are manufactured with glass bead insulator.

They are used in all applications requiring perfect hermeticity.

Shell housing may be solder or screw mounted.

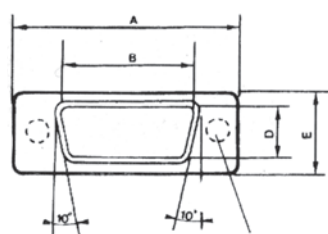
3 types of contacts terminations are available:  
Solder bucket, Solder eyelet or Straight spill.

They are compliant to MIL C 24308 C.

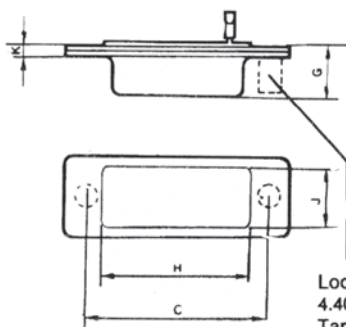


## Dimensions (mm)

| Shell size | A <sub>0</sub> ±0.30 | B     | C<br>Screw<br>mounting | D     | E <sub>0</sub> ±0.30 | G max | H±0.20 | J±0.20 | K <sup>+0.10</sup> <sub>-0.20</sub> |
|------------|----------------------|-------|------------------------|-------|----------------------|-------|--------|--------|-------------------------------------|
| E          | 30.80                | 16.94 | 24.99                  | 8.41  | 12.54                | 8.45  | 18.40  | 9.40   | 2.50                                |
| A          | 39.14                | 25.27 | 33.32                  |       |                      |       | 23.70  |        |                                     |
| B          | 53.03                | 39.00 | 47.04                  |       |                      |       | 37.56  |        |                                     |
| C          | 69.29                | 55.45 | 63.50                  | 11.10 | 15.36                | 8.75  | 53.97  | 12.70  | 2.70                                |
| D          | 66.92                | 52.86 | 61.11                  |       |                      |       | 50.80  |        |                                     |

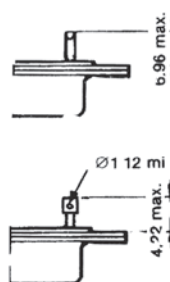


Hole  $\varnothing 3.20$   $\begin{smallmatrix} 0.10 \\ 0.05 \end{smallmatrix}$   
for screw mounting

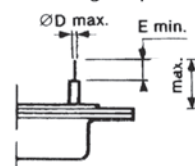


Locking stud  
4.40 UNC 2B  
Tapped hole

Solder bucket



Straight spills





# D-Subminiature Series

## MIL-C 24308 D-Sub hermetic connectors part numbers & specifications

RoHS connectors: only gold & nickel-plated connectors are RoHS under MIL-C 24308.

SOURIAU can provide you with tin-plated RoHS connectors under manufacturer part numbers. Please consult us.

| Shell size  | Plating    |          | Solder mounting      |                |                   |                | Screw mounting |                |           |
|-------------|------------|----------|----------------------|----------------|-------------------|----------------|----------------|----------------|-----------|
|             | Shell      | Cts      | Without locking stub |                | With locking stub |                |                |                |           |
|             |            |          | Solder bucket        | Straight spill | Solder bucket     | Straight spill | Solder bucket  | Straight spill | Eyelet    |
| E<br>9 Cts  | Cadmium    | Gold     | DEH09P002            | DEH09P004      | DEH09P006         | DEH09P008      | DEH09P102      | DEH09P104      | -         |
|             | Cadmium    | Gold     | -                    | DEH09P014      | -                 | -              | -              | -              | -         |
|             | Gold       | Gold     | -                    | -              | -                 | -              | DEH09P122      | DEH09P124      | -         |
|             | Tin bright | Gold     | DEH09P007            | DEH09P012      | DEH09P023         | DEH09P010      | DEH09P107      | DEH09P113      | -         |
|             | Tin bright | Gold     | -                    | DEH09P015      | DEH09P025         | -              | -              | DEH09P116      | -         |
|             | Tin bright | Gold     | -                    | DEH09P016      | DEH09P005         | -              | -              | -              | -         |
|             | Tin bright | Gold     | -                    | DEH09P017      | -                 | -              | -              | -              | -         |
|             | Tin mat    | Tin mat  | -                    | -              | -                 | DEH09P009      | -              | -              | -         |
|             | Nickel     | Nickel   | -                    | -              | -                 | -              | -              | -              | DEH09P121 |
| A<br>15 Cts | Cadmium    | Gold     | DAH15P002            | DAH15P004      | DAH15P006         | DAH15P008      | DAH15P102      | DAH15P104      | -         |
|             | Cadmium    | Gold     | -                    | DAH15P014      | -                 | -              | -              | -              | -         |
|             | Gold       | Gold     | -                    | -              | -                 | -              | DAH15P122      | DAH15P124      | -         |
|             | Tin bright | Gold     | DAH15P007            | DAH15P012      | DAH15P023         | DAH15P010      | DAH15P107      | DAH15P113      | -         |
|             | Tin bright | Gold     | -                    | DAH15P015      | DAH15P005         | -              | DAH15P119      | DAH15P116      | -         |
|             | Tin bright | Gold     | -                    | DAH15P016      | -                 | -              | DAH15P120      | -              | -         |
|             | Tin mat    | Tin mat  | -                    | -              | -                 | DAH15P009      | -              | -              | -         |
|             |            |          |                      |                |                   |                |                |                |           |
| B<br>25 Cts | Cadmium    | Gold     | DBH25P002            | DBH25P004      | DBH25P006         | DBH25P008      | DBH25P102      | DBH25P104      | -         |
|             | Cadmium    | Gold     | -                    | DBH25P014      | DBH25P020         | -              | -              | -              | -         |
|             | Gold       | Gold     | -                    | -              | -                 | -              | DBH25P122      | DBH25P124      | -         |
|             | Tin bright | Gold     | DBH25P007            | DBH25P011A     | DBH25P023         | DBH25P010      | DBH25P107      | DBH25P113      | -         |
|             | Tin bright | Gold     | -                    | DBH25P012      | DBH25P005         | -              | -              | DBH25P115      | -         |
|             | Tin bright | Gold     | -                    | DBH25P015      | -                 | -              | -              | DBH25P116      | -         |
|             | Tin bright | Gold     | -                    | DBH25P016      | -                 | -              | -              | -              | -         |
|             | Tin bright | Gold/Tin | -                    | -              | -                 | -              | -              | DBH25P125      | -         |
|             | Tin mat    | Tin mat  | -                    | -              | -                 | DBH25P009      | -              | -              | -         |
| C<br>37 Cts | Cadmium    | Gold     | DCH37P002            | DCH37P004      | DCH37P006         | DCH37P008      | DCH37P102      | DCH37P104      | -         |
|             | Cadmium    | Gold     | -                    | DCH37P014      | -                 | -              | -              | -              | -         |
|             | Gold       | Gold     | -                    | -              | -                 | -              | DCH37P122      | DCH37P124      | -         |
|             | Tin bright | Gold     | DCH37P007            | DCH37P012      | DCH37P023         | DCH37P010      | DCH37P107      | DCH37P113      | -         |
|             | Tin bright | Gold     | -                    | DCH37P015      | DCH37P005         | DCH37P021      | -              | DCH37P114      | -         |
|             | Tin bright | Gold     | -                    | DCH37P016      | -                 | -              | -              | DCH37P116      | -         |
|             | Tin mat    | Tin mat  | -                    | -              | -                 | DCH37P009      | -              | -              | -         |
| D<br>50 Cts | Cadmium    | Gold     | DDH50P002            | DDH50P004      | DDH50P006         | DDH50P008      | DDH50P102      | DDH50P104      | -         |
|             | Cadmium    | Gold     | -                    | DDH50P014      | -                 | -              | -              | -              | -         |
|             | Gold       | Gold     | -                    | -              | -                 | -              | DDH50P122      | DDH50P124      | -         |
|             | Tin bright | Gold     | DDH50P007            | DDH50P012      | DDH50P023         | DDH50P010      | DDH50P107      | DDH50P113      | -         |
|             | Tin bright | Gold     | -                    | DDH50P015      | DDH50P005         | -              | -              | DDH50P114      | -         |
|             | Tin bright | Gold     | -                    | DDH50P016      | DDH50P019         | -              | -              | DDH50P116      | -         |
|             | Tin mat    | Tin mat  | -                    | -              | -                 | DDH50P009      | -              | -              | -         |

# D-Subminiature Series



## D-Sub hermetic connectors

### Straight spill version dimensions

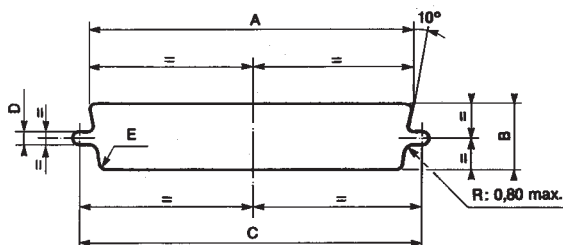
| N° specification | 004  | 008 | 009 | 010 | 011A | 012  | 014  | 015  | 016  |
|------------------|------|-----|-----|-----|------|------|------|------|------|
| L max            | 7.62 |     |     |     | 3.40 | 5.25 | 3.83 | 9.60 | 7.62 |
| E min            | 6.40 |     |     |     | 2.00 | 4.02 | 2.13 | 8.43 | 6.40 |
| ø D max          | 0.83 |     |     |     | 0.60 | 0.68 | 0.63 | 0.83 | 0.83 |

| N° specification | 017  | 021  | 104 | 113  | 114 | 115   | 116  | 124 | 125 |
|------------------|------|------|-----|------|-----|-------|------|-----|-----|
| L max            | 3.83 | 7.62 |     | 6.82 |     | 16.35 | 7.62 |     |     |
| E min            | 2.13 | 6.40 |     | 5.60 |     | 15.18 | 6.40 |     |     |
| ø D max          | 0.60 | 0.83 |     | 0.65 |     | 0.85  | 0.83 |     |     |

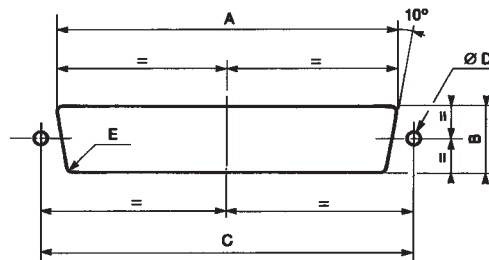
### Panel cut-out

| Shell size | Mounting type | A<br>+/-0.1 | B<br>+/-0.1 | C<br>+/-0.1 | D<br>+/-0.05 | E<br>+/-0.1 | F min | G min |
|------------|---------------|-------------|-------------|-------------|--------------|-------------|-------|-------|
| E          | Front         | -           | -           | 24.99       | 3.20         | -           | 18.70 | 9.70  |
|            | Rear          | 20.50       | 11.40       | 24.99       | 3.20         | 3.30        | -     | -     |
| A          | Front         | -           | -           | 33.32       | 3.20         | -           | 24.00 | 9.70  |
|            | Rear          | 28.80       | 11.40       | 33.32       | 3.20         | 3.30        | -     | -     |
| B          | Front         | -           | -           | 47.04       | 3.20         | -           | 37.80 | 9.70  |
|            | Rear          | 42.50       | 11.40       | 47.04       | 3.20         | 3.30        | -     | -     |
| C          | Front         | -           | -           | 63.50       | 3.20         | -           | 54.20 | 9.70  |
|            | Rear          | 59.10       | 11.40       | 63.50       | 3.20         | 3.30        | -     | -     |
| D          | Front         | -           | -           | 61.11       | 3.20         | -           | 51.10 | 13.00 |
|            | Rear          | 56.30       | 11.40       | 61.11       | 3.20         | 3.30        | -     | -     |

Cut-out front panel mounting  
(screw mounting)



Cut-out rear panel mounting  
(screw mounting)



D-Subminiature Series

# Common Section

|                          |    |
|--------------------------|----|
| ■ Panel mounting .....   | 26 |
| ■ Shell dimensions ..... | 27 |
| ■ Mounting options ..... | 28 |

# D-Subminiature Series

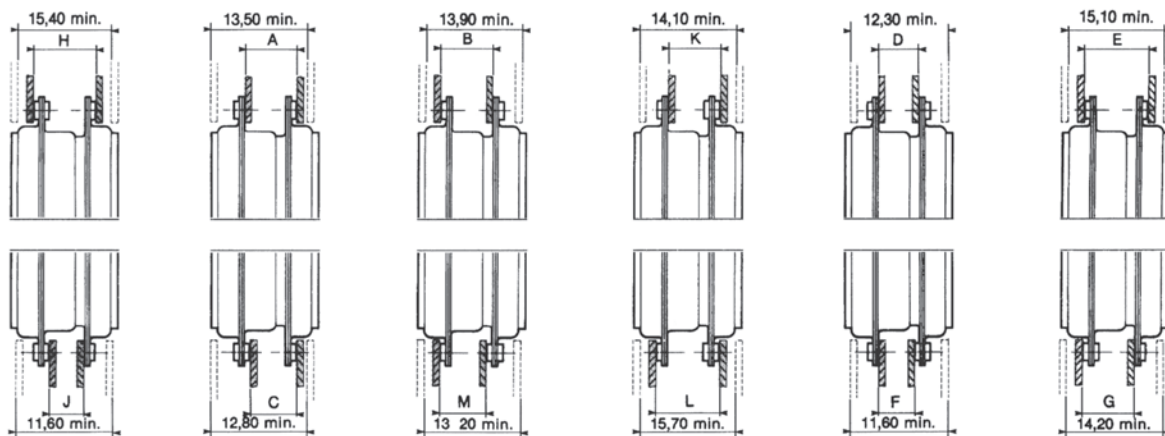


## Panel mounting

It is recommended that only one pair of connectors should be float mounted.

Rigid mounted connectors require 2 screws Ø3mm.

Float mounting connectors require Ø2mm.



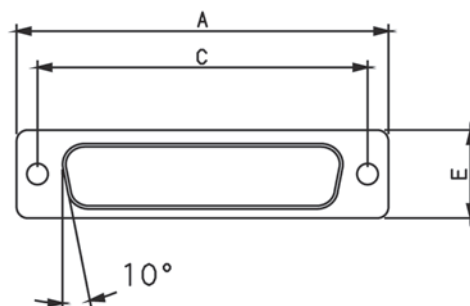
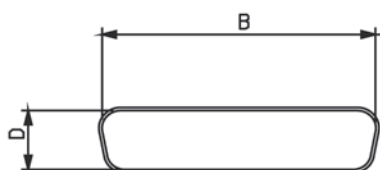
| Shell size | A<br>0/+0.6 | B<br>0/+0.6 | C<br>0/+0.6 | D<br>0/+0.6 | E<br>0/+0.6 | F<br>0/+0.6 | G<br>0/+0.6 | H<br>0/+0.6 | J<br>0/+0.6 | K<br>0/+0.6 | L<br>0/+0.6 | M<br>0/+0.6 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| E          | 7.65        | 7.65        | 6.85        | 6.45        | 8.85        | 5.65        | 8.25        | 9.45        | 5.65        | 8.25        | 9.45        | 6.85        |
| A          |             |             |             |             |             |             |             |             |             |             |             |             |
| B          |             |             |             |             | 9.15        |             | 8.15        |             |             |             | 9.35        | 6.75        |
| C          | 7.55        | 7.55        | 6.75        | 6.35        |             | 5.55        | 8.35        | 9.35        | 5.55        | 8.15        |             |             |
| D          |             |             |             |             |             |             |             |             |             |             | 9.75        | 7.15        |

# D-Subminiature Series

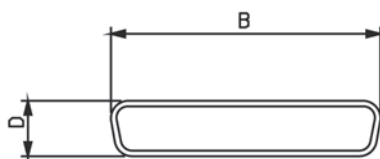


## Shell dimensions

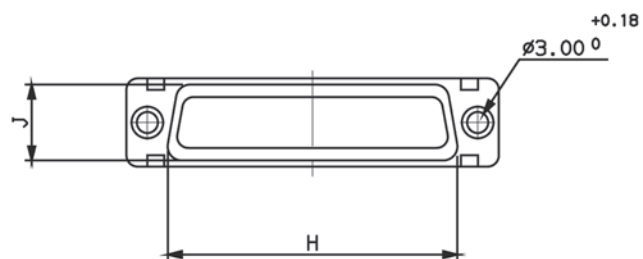
Inner dimension  
male connector



View of  
mating faces



Outer view  
female connector



| Shell size | Contact type | A<br>+/-0.38 | B<br>+/-0.13 | C<br>+/-0.13 | D<br>+/-0.13 | E<br>+/-0.38 | F<br>Max | G<br>+/-0.25 | H<br>+/-0.25 | J<br>+/-0.25 | K<br>Max | L<br>+/-0.12 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|--------------|--------------|--------------|----------|--------------|
| E          | Pin          | 30.81        | 16.91        | 24.99        | 8.35         | 12.55        | 10.99    | 5.85         | 19.27        | 10.71        | 1.50     | 0.90         |
|            | Socket       |              | 16.33        |              | 7.89         |              | 11.21    | 6.05         |              |              |          |              |
| A          | Pin          | 39.14        | 25.24        | 33.32        | 8.35         |              | 10.99    | 5.85         | 27.50        |              |          |              |
|            | Socket       |              | 24.66        |              | 7.89         |              | 11.21    | 6.05         |              |              |          |              |
| B          | Pin          | 53.03        | 38.96        | 47.04        | 8.35         |              | 11.07    | 5.75         | 41.27        |              |          |              |
|            | Socket       |              | 38.37        |              | 7.89         |              | 11.21    | 6.05         |              |              |          |              |
| C          | Pin          | 69.32        | 55.42        | 63.50        | 8.35         |              | 11.09    | 5.75         | 57.70        |              |          | 1.00         |
|            | Socket       |              | 54.83        |              | 7.89         |              | 11.21    | 6.05         |              |              |          |              |
| D          | Pin          | 66.93        | 52.80        | 61.11        | 11.20        | 15.37        | 11.09    | 5.75         | 55.32        | 13.56        | 1.70     | 1.00         |
|            | Socket       |              | 52.42        |              | 10.74        |              | 11.21    | 6.05         |              |              | 1.50     | 0.90         |

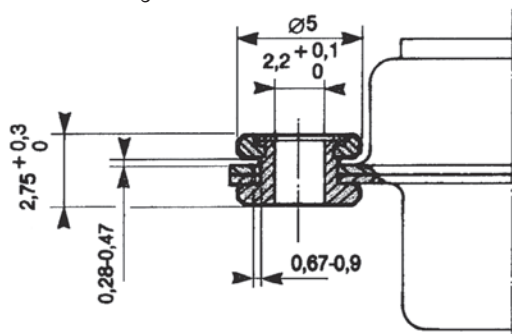
# D-Subminiature Series



## Mounting options

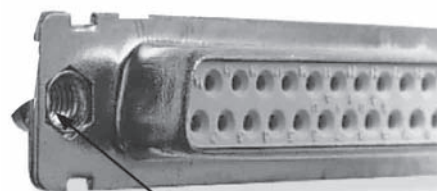
### 8630 and 8635 Series (dimensions in mm.)

F: Float mounting



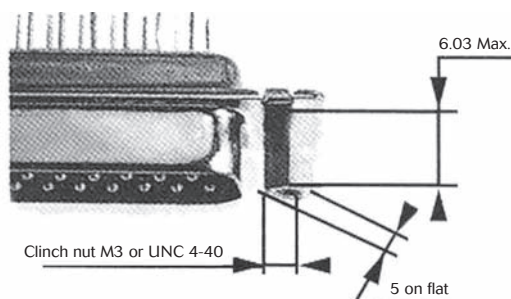
L: Clinch nut M3

O: Clinch nut UNC 4-40



Clinch nut M3 or UNC 4-40

V: Female screw lock UNC 4-40



Clinch nut M3 or UNC 4-40

**Алматы** (7273)495-231  
**Ангарск** (3955)60-70-56  
**Архангельск** (8182)63-90-72  
**Астрахань** (8512)99-46-04  
**Барнаул** (3852)73-04-60  
**Белгород** (4722)40-23-64  
**Благовещенск** (4162)22-76-07  
**Брянск** (4832)59-03-52  
**Владивосток** (423)249-28-31  
**Владикавказ** (8672)28-90-48  
**Владимир** (4922)49-43-18  
**Волгоград** (844)278-03-48  
**Вологда** (8172)26-41-59  
**Воронеж** (473)204-51-73  
**Екатеринбург** (343)384-55-89

**Иваново** (4932)77-34-06  
**Ижевск** (3412)26-03-58  
**Иркутск** (395)279-98-46  
**Казань** (843)206-01-48  
**Калининград** (4012)72-03-81  
**Калуга** (4842)92-23-67  
**Кемерово** (3842)65-04-62  
**Киров** (8332)68-02-04  
**Коломна** (4966)23-41-49  
**Кострома** (4942)77-07-48  
**Краснодар** (861)203-40-90  
**Красноярск** (391)204-63-61  
**Курск** (4712)77-13-04  
**Курган** (3522)50-90-47  
**Липецк** (4742)52-20-81

**Магнитогорск** (3519)55-03-13  
**Москва** (495)268-04-70  
**Мурманск** (8152)59-64-93  
**Набережные Челны** (8552)20-53-41  
**Нижний Новгород** (831)429-08-12  
**Новокузнецк** (3843)20-46-81  
**Ноябрьск** (3496)41-32-12  
**Новосибирск** (383)227-86-73  
**Омск** (3812)21-46-40  
**Орел** (4862)44-53-42  
**Оренбург** (3532)37-68-04  
**Пенза** (8412)22-31-16  
**Петрозаводск** (8142)55-98-37  
**Псков** (8112)59-10-37  
**Пермь** (342)205-81-47

**Ростов-на-Дону** (863)308-18-15  
**Рязань** (4912)46-61-64  
**Самара** (846)206-03-16  
**Санкт-Петербург** (812)309-46-40  
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