

# UTS Hi seal



## Description

Dynamic IP68/IP69K - Waterproof connectors in mated and unmated condition

■ UTS Hi seal connector is a range of light-weight industrial plastic circular connectors compatible with MIL-DTL-26482 connectors. It offers **Dynamic IP68/IP69K** water protection in both mated & unmated conditions.

■ Available :

- in 5 shell sizes,
- up to 21 contact arrangements
- with multiple polarization options.

■ Connectors are standard supplied with preassembled handsolder contacts. For dispolder or crimp contacts, please consult factory.

## Applications

UTS Hi seal connector is suitable for a broad range of applications, such as

- Wet & submerged environments
- Instrumentation
- Meteorological measurement system
- Traffic control
- Videosurveillance
- Tunnel fans
- Water measurement

and there is more.

## Benefits

Protection of electronics inside the equipments/boxes in case of maintenance, unmated conditions or cable damage

Fully intermateable and interchangeable with existing solutions

- Design based on MIL-DTL-26482 connectors or equivalents such as : BS 9522 F0017, NFC93422, HE301B, VG 95328.

Ideal for indoor / outdoor applications

- Dynamic IP68/69K water protection (during vibration and cable movements)
- Corrosion resistance

Operational safety - ESD

- Plastic shells

Rapid and secure locking system

- Bayonet connector

Suitable for overmoulding

- Sealed insulator and contacts

Respect for environment

- RoHS compliant

Visual identification

- Coloured rings



**SOURIAU**  
Connection Technology

# UTS Hi seal



## Technical characteristics

### Mechanical

- Durability
- Vibration resistance
- Thermal shock

250 matings & unmatings  
Per CEI 60512-4  
Per MIL-STD 1344 method 1003

### Electrical

- Current per contact

Size 16: 13A  
Size 20: 7.5A  
≥ 5000 MΩ under 500Vcc at 25°C  
500 V between contacts size 20  
2300 V between contacts size 16  
1500 Veff between contacts size 20  
2300 Veff between contacts size 16  
according to MIL-DTL-26482

- Insulation resistance
- Test potential

- Operating voltage

### Environmental

- Operating temperature
- Sealing (mated/unmated)

-40°C to + 105°C  
Dynamic IP68 - under water for 1 week, 1 bar  
Dynamic IP69K per DIN 40050  
500 hours

- Salt spray
- UV resistance
- RoHS compliant & conform to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)

1000 hours per ISO4892

### Material

- Housing + Backshell
- Insert
- Contacts

Thermoplastic UL94-V0  
Elastomer  
Copper alloy - gold plated  
Other platings on request



## Contacts arrangements

### Size 8

2



Contacts :  
2 Ø 1 (#20)

3



Contacts :  
3 Ø 1 (#20)

3A/98



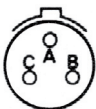
Contacts :  
3 Ø 1 (#20)

4



Contacts :  
4 Ø 1 (#20)

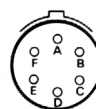
33



Contacts :  
3 Ø 1 (#20)

### Size 10

6



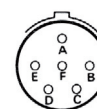
Contacts :  
6 Ø 1 (#20)

7



Contacts :  
7 Ø 1 (#20)

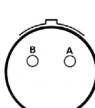
98



Contacts :  
6 Ø 1 (#20)

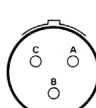
### Size 12

2



Contacts :  
2 Ø 1.6 (#16)

3



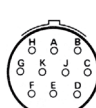
Contacts :  
3 Ø 1.6 (#16)

8



Contacts :  
8 Ø 1 (#20)

10



Contacts :  
10 Ø 1 (#20)

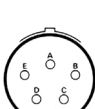
14



Contacts :  
14 Ø 1 (#20)

### Size 14

5



Contacts :  
5 Ø 1.6 (#16)

12



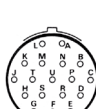
Contacts :  
8 Ø 1 (#20)  
4 Ø 1.6 (#16)

15



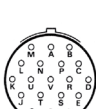
Contacts :  
14 Ø 1 (#20)  
1 Ø 1.6 (#16)

18



Contacts :  
18 Ø 1 (#20)

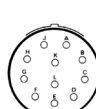
19



Contacts :  
19 Ø 1 (#20)

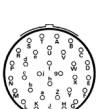
### Size 18\*

11



Contacts :  
11 Ø 1.6 (#16)

32



Contacts :  
32 Ø 1 (#20)

30



Contacts :  
29 Ø 1 (#20)  
1 Ø 1.6 (#16)

\* Please consult factory

# UTS Hi seal

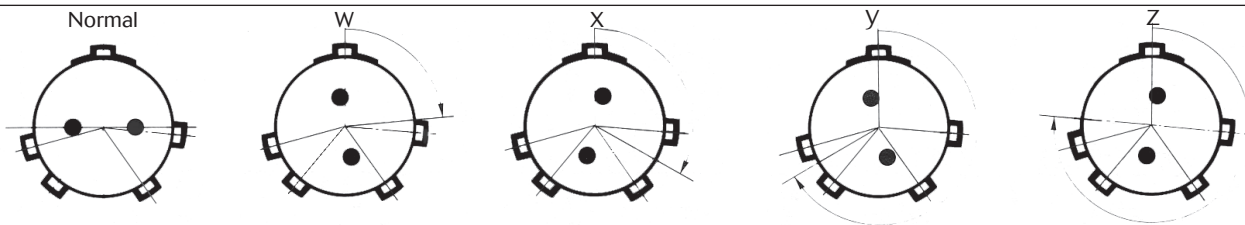


## How to order

|                                                                                                             |     |   |    |   |   |   |   |   |
|-------------------------------------------------------------------------------------------------------------|-----|---|----|---|---|---|---|---|
| Connector family                                                                                            | UTS | 7 | -  | 8 | E | 2 | P | - |
|                                                                                                             | UTS | 6 | JC | 8 | E | 2 | S | - |
| <b>Body variation</b><br>6 = cable plug + backshell / 7 = jam nut receptacle / 0 = square flange receptacle |     |   |    |   |   |   |   |   |
| <b>Backshell</b> : JC = backshell (only for plug)                                                           |     |   |    |   |   |   |   |   |
| <b>Shell size</b> : 8, 10, 12, 14, 18                                                                       |     |   |    |   |   |   |   |   |
| <b>Contact type</b><br>E = Handsolder contacts / R = Crimp contacts* / D = PC tail contacts*                |     |   |    |   |   |   |   |   |
| <b>Insert arrangement</b> - see previous page                                                               |     |   |    |   |   |   |   |   |
| <b>Contact gender</b> : P = Pin contacts / S = Socket contacts                                              |     |   |    |   |   |   |   |   |
| <b>Insert rotation</b> : No digit = Normal / W, X, Y, Z = Different orientations - see below                |     |   |    |   |   |   |   |   |

\* Please consult factory

## Insert orientation\* (viewed from front face of male insert)

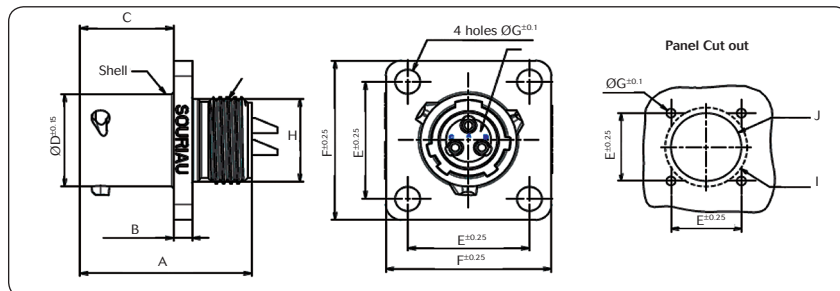


| Angle<br>in<br>degree | Shell sizes |      |          |     |     |         |     |      |         |      |      |   |     |         |     |      |      |      |         |      |      |
|-----------------------|-------------|------|----------|-----|-----|---------|-----|------|---------|------|------|---|-----|---------|-----|------|------|------|---------|------|------|
|                       | 8           |      |          |     |     | 10      |     |      | 12      |      |      |   |     | 14      |     |      |      |      | 18      |      |      |
|                       | Layouts     |      |          |     |     | Layouts |     |      | Layouts |      |      |   |     | Layouts |     |      |      |      | Layouts |      |      |
|                       | 2           | 3    | 3A (98)* | 4   | 33  | 6       | 7*  | 98   | 3       | 8    | 10   | 2 | 14* | 5       | 12  | 15   | 18   | 19   | 11      | 32   | 30   |
| W                     | 58°         | 60°  | 60°      | 45° | 90° | 90°     | 90° | 90°  | -       | 90°  | 60°  | - | 45  | 40°     | 43° | 17°  | 15°  | 30°  | 62°     | 85°  | 180° |
| X                     | 122°        | 210° | 210°     | -   | -   | -       | -   | 180° | -       | 112° | 155° | - | -   | 92°     | 90° | 110° | 90°  | 165° | 119°    | 138° | 193° |
| Y                     | -           | -    | -        | -   | -   | -       | -   | 240° | 180°    | 203° | 270° | - | -   | 184°    | -   | 155° | 180° | 315° | 241°    | 222° | 285° |
| Z                     | -           | -    | -        | -   | -   | -       | -   | 270° | -       | 292° | 295° | - | -   | 273°    | -   | 234° | 270° | -    | 340°    | 265° | 350° |

\* 8-98 layout, W and X non standard orientations / 10-7 & 12-14 layouts, X non standard orientation

## Range presentation

### Square flange receptacle with handsolder contacts



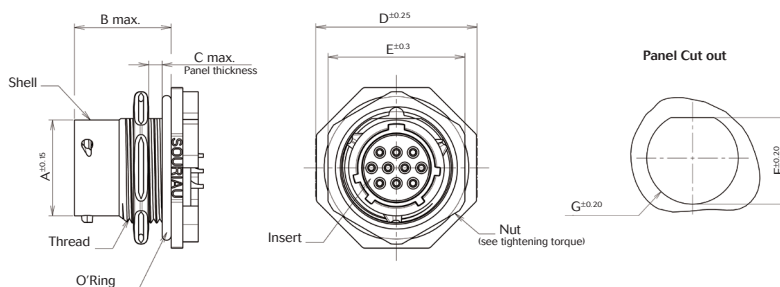
| Part numbers   |                | Shell size | A max. | B    | C max. | Ø D   | E     | F     | G    | H     | Ø I   | Ø J   |
|----------------|----------------|------------|--------|------|--------|-------|-------|-------|------|-------|-------|-------|
| Male contact   | Female contact |            |        |      |        |       |       |       |      |       |       |       |
| UTS0 8E -- P   | UTS0 8E -- S   | 8          | 21.50  | 2.30 | 11.70  | 11.92 | 15.10 | 20.55 | 3.20 | 10.67 | 14.50 | 11.50 |
| UTS0 10E -- P  | UTS0 10E -- S  | 10         | 21.50  | 2.30 | 11.50  | 14.93 | 18.30 | 23.80 | 3.20 | 14.30 | 17.80 | 15.10 |
| UTS0 12E -- P  | UTS0 12E -- S  | 12         | 21.50  | 2.30 | 11.50  | 19.00 | 20.60 | 26.20 | 3.20 | 17.50 | 22.20 | 18.20 |
| UTS0 14E -- P  | UTS0 14E -- S  | 14         | 21.50  | 2.30 | 11.50  | 22.17 | 23.00 | 28.60 | 3.20 | 20.70 | 25.50 | 21.4  |
| UTS0 18E -- P* | UTS0 18E -- S* | 18         | 21.50  | 2.50 | 11.50  | 28.52 | 27.00 | 33.30 | 3.20 | 27.00 | 31.80 | 27.80 |

Note : all dimensions are in mm / \* Please consult factory

# UTS Hi seal

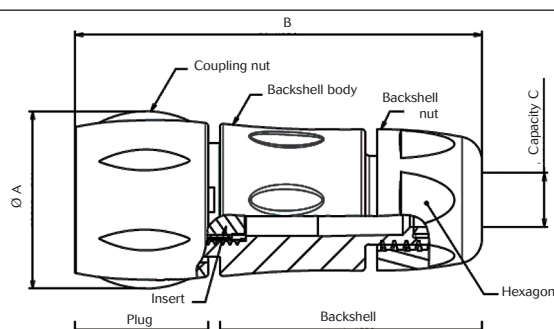


## Jam nut receptacle with handsolder contacts



| Part numbers   |                | Shell size | Ø A   | B max. | C max. | D     | E     | F     | Ø G   | Tightening torque |
|----------------|----------------|------------|-------|--------|--------|-------|-------|-------|-------|-------------------|
| Male contact   | Female contact |            |       |        |        |       |       |       |       |                   |
| UTS7 8E -- P   | UTS7 8E -- S   | 8          | 12.00 | 19.30  | 3.20   | 24.00 | 19.30 | 13.75 | 14.60 | 2 Nm              |
| UTS7 10E -- P  | UTS7 10E -- S  | 10         | 14.90 | 19.30  | 3.20   | 27.00 | 22.20 | 16.50 | 17.70 | 3 Nm              |
| UTS7 12E -- P  | UTS7 12E -- S  | 12         | 19.00 | 19.30  | 3.20   | 31.80 | 27.00 | 21.20 | 22.50 | 4 Nm              |
| UTS7 14E -- P  | UTS7 14E -- S  | 14         | 22.20 | 19.30  | 3.20   | 34.90 | 30.20 | 24.30 | 25.70 | 5 Nm              |
| UTS7 18E -- P* | UTS7 18E -- S* | 18         | 28.50 | 19.30  | 3.20   | 41.30 | 36.60 | 30.60 | 32.00 | 5 Nm              |

## Cable plug with handsolder contacts



| Part numbers      |                   | Shell size | Ø A max. | B min. | Capacity C<br>Standard seal | Capacity C<br>Reducing seal | Hexagon |
|-------------------|-------------------|------------|----------|--------|-----------------------------|-----------------------------|---------|
| Male contact      | Female contact    |            |          |        |                             |                             |         |
| UTS6 JC 8E -- P   | UTS6 JC 8E -- S   | 8          | 22.50    | 50.00  | 2.5 / 6.5                   | 1.5 / 5                     | 16      |
| UTS6 JC 10E -- P  | UTS6 JC 10E -- S  | 10         | 26.70    | 63.20  | 2.5 / 8                     | 1.5 / 5                     | 18.5    |
| UTS6 JC 12E -- P  | UTS6 JC 12E -- S  | 12         | 30.15    | 66.70  | 5 / 12                      | 3 / 9                       | 24      |
| UTS6 JC 14E -- P  | UTS6 JC 14E -- S  | 14         | 35.10    | 71.50  | 7 / 14                      | 5 / 12                      | 26      |
| UTS6 JC 18E -- P* | UTS6 JC 18E -- S* | 18         | 42.00    | 81.30  | 9 / 18                      | 7 / 16                      | 33      |

Several accessories are available, please refer to the UTS catalogue.

For further information, visit our website [www.souriau-industrial.com](http://www.souriau-industrial.com)  
or contact us at [contactindustry@souriau.com](mailto:contactindustry@souriau.com)

Note : all dimensions are in mm / \* Please consult factory