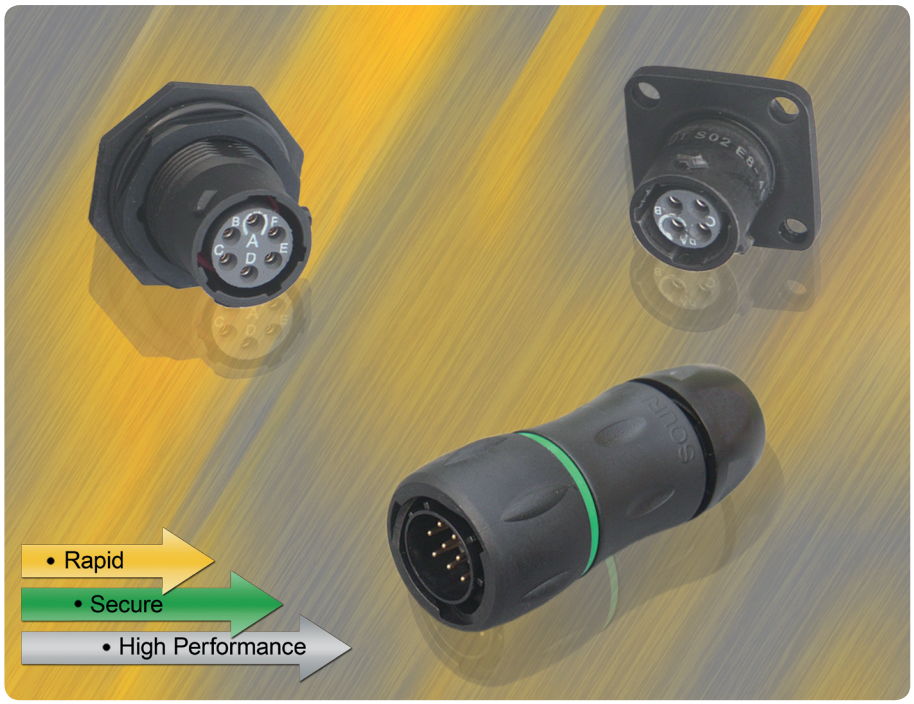
UTS Hi seal

SEALED UNMATED
MIL-DTL-26482
COMPATIBLE



Description

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

- UTS Hi seal connector is a range of lightweight 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 dispsolder 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 mouvements)
- 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

SEALED UNMATED
MIL-DTL-26482
COMPATIBLE

Technical characteristics

Mechanical

• Durability	250 matings & unmatings
• Vibration resistance	Sinusoidal vibrations per CEI 60512-4 - from 10 to 2000 Hz
• Thermal shock	5 cycles 30 min. from -40°C to 105°C per MIL-STD 1344 method 1003

Electrical

• Current per contact max.	Size 16: 13A Size 20: 7.5A
• Insulation resistance	≥ 5000 MΩ under 500Vcc at 25°C
• Test potential	1500 Veff between contacts size 20 2300 Veff between contacts size 16
• Working voltage	600 V - contacts size 20 1000 V - contacts size 16 according to MIL-DTL-26482

Environmental

• Operating temperature	-40°C to + 105°C
• Sealing (mated/unmated)	Dynamic IP68 - under water for 1 week, 1 bar Dynamic IP69K per DIN 40050
• Salt spray	500 hours
• UV resistance	No mechanical degradation or important variation of color after 5 years of exposure in natural environment (equivalence exposure to sun and moisture as per ISO4892)
• RoHS compliant & conform to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)	

Material

• Housing + Backshell	Thermoplastic UL94-V0

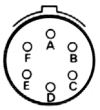
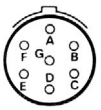
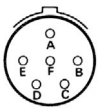
RoHS Compliant

Contacts arrangements

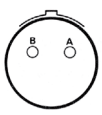
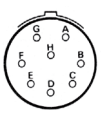
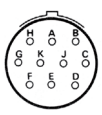
Size 8

2	3	3A/98	4	33
Contacts : 2 Ø 1 (#20)	Contacts : 3 Ø 1 (#20)	Contacts : 3 Ø 1 (#20)	Contacts : 4 Ø 1 (#20)	Contacts : 3 Ø 1 (#20)

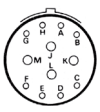
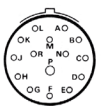
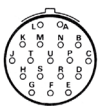
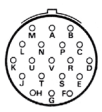
Size 10

6	7	98
		
Contacts : 6 Ø 1 (#20)	Contacts : 7 Ø 1 (#20)	Contacts : 6 Ø 1 (#20)

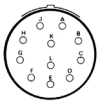
Size 12

2	3	8	10	14
				
Contacts : 2 Ø 1.6 (#16)	Contacts : 3 Ø 1.6 (#16)	Contacts : 8 Ø 1 (#20)	Contacts : 10 Ø 1 (#20)	Contacts : 14 Ø 1 (#20)

Size 14

5	12	15	18	19
				
Contacts : 5 Ø 1.6 (#16)	Contacts : 8 Ø 1 (#20) 4 Ø 1.6 (#16)	Contacts : 14 Ø 1 (#20) 1 Ø 1.6 (#16)	Contacts : 18 Ø 1 (#20)	Contacts : 19 Ø 1 (#20)

Size 18*

11	32	30
		
Contacts : 11 Ø 1.6 (#16)	Contacts : 32 Ø 1 (#20)	Contacts : 29 Ø 1 (#20) 1 Ø 1.6 (#16)

** Please consult factory*

UTS Hi seal

SEALED UNMATED
MIL-DTL-26482
COMPATIBLE

Ordering information

Connector family	UTS UTS	7 6	- JC	8 8	E E	2 2	P S	- -

Body variation
6 Cable plug + backshell
7 Jam nut receptacle
0 Square flange receptacle

Backshell : JC = Backshell (only for plug) / **No digit** = No backsell (only for plug)

Shell size : 8, 10, 12, 14, 18

Contact type
E = Handsolder contacts / **R** = Crimp contacts* / **D** = PC tail contacts*

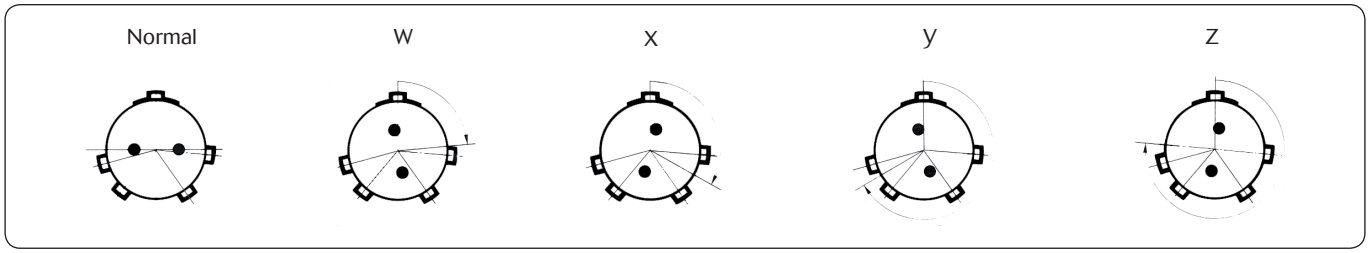
Insert arrangement - see next page

Contact gender : **P** = Pin contacts / **S** = Socket contacts

Insert rotation : No digit = Normal / **W, X, Y, Z** = Different orientations - see page 60

** Please consult factory*

Insert orientation - *Insert rotated in body (viewed from front face of male insert*

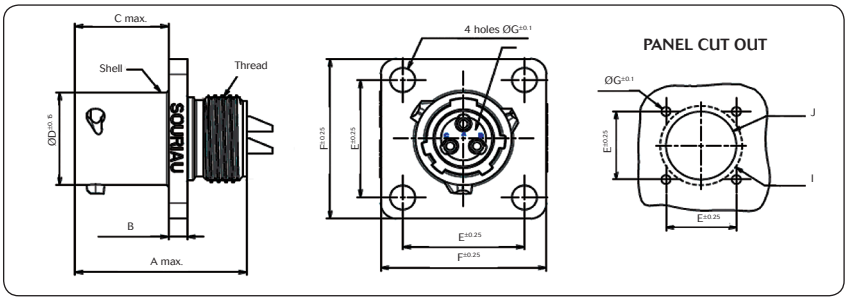


Shell size		8					10			12					14					18		
Layouts		2	3	3A(98)*	4	33	6	7*	98	3	8	10	2	14*	5	12	15	18	19	11	32	30
Angle in degrees	W	58	60	60	45	90	90	90	90	-	90	60	-	45	40	43	17	15	30	62	5	180
	X	122	210	210	-	-	-	-	180	-	112	155	-		92	90	110	90	165	119	138	193
	y	-	-	-	-	-	-	-	240	180	203	270	-		184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

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

Range presentation

Square flange receptacle with handsolder contacts



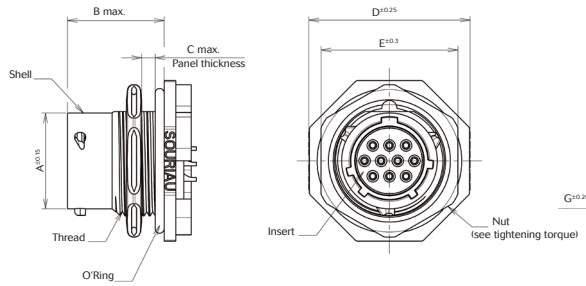
Shell size	Part numbers		A	B	C	Ø D	E	F	G	Ø I	Ø J
	Male contact	Female contact									
8	UTS08E - - P -	UTS08E - - S -	21.5	2.3	11.7	12.0	15.1	21.0	3.2	15.5	12.5
10	UTS010E - - P -	UTS010E - - S -	21.5	2.3	11.7	15.0	18.3	23.8	3.2	17.3	15.1
12	UTS012E - - P -	UTS012E - - S -	21.5	2.3	11.7	19.0	20.6	26.2	3.2	21.8	18.2
14	UTS014E - - P -	UTS014E - - S -	21.5	2.3	11.7	22.2	23.0	28.6	3.2	25.0	21.5
18	UTS018E - - P -*	UTS018E - - S -*	21.5	2.5	11.7	28.5	27.0	33.3	3.2	31.8	27.8

Note : all dimensions are in mm

UTS Hi seal

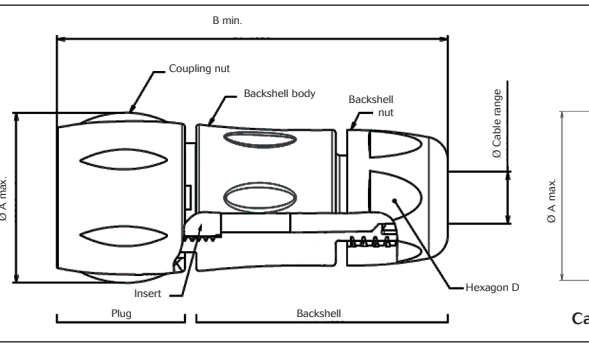
SEALED UNMATED
MIL-DTL-26482
COMPATIBLE

Jam nut receptacle with handsolder contacts



Shell size	Part numbers		Ø A	B	C	D	E	F	Ø G	Tightening torque
	Male contact	Female contact								
8	UTS78E - - P -	UTS78E - - S -	12.0	19.3	3.2	24.0	19.3	13.75	14.6	2 Nm
10	UTS710E - - P -	UTS710E - - S -	14.9	19.3	3.2	27.0	22.2	16.5	17.7	3 Nm
12	UTS712E - - P -	UTS712E - - S -	19.0	19.3	3.2	31.8	27.0	21.2	22.5	4 Nm
14	UTS714E - - P -	UTS714E - - S -	22.2	19.3	3.2	34.9	30.2	24.3	25.7	5 Nm
18	UTS718E - - P -*	UTS718E - - S -*	28.5	19.3	3.2	41.3	36.6	30.6	32.0	5 Nm

Cable plug with handsolder contacts



Shell size	Part numbers		Ø A	B	Ø Cable range Standard seal	Ø Cable range Reducing seal	Hexagon D	C
	Male contact	Female contact						
8	UTS6 - - 8E - - P -	UTS6 - - 8E - - S -	22.5	54.0	2.5 / 6.5	1.5 / 5.0	16.0	21.3
10	UTS6 - - 10E - - P -	UTS6 - - 10E - - S -	26.7	63.2	2.5 / 8.0	1.5 / 5.0	18.5	23.6
12	UTS6 - - 2E - - P -	UTS6 - - 12E - - S -	30.2	66.7	5.0 / 12.0	3.0 / 9.0	24.0	23.6
14	UTS6 - - 14E - - P -	UTS6 - - 14E - - S -	35.1	71.5	7.0 / 14.0	5.0 / 12.0	26.0	23.6
18	UTS6 - - 18E - - P -*	UTS6 - - 18E - - S -*	42.0	81.3	9.0/ 18.0	7.0 / 16.0	33.0	-

*Coloured ring supplied as optional extra / * Please consult factoryfor*

Accessories: please refer to the UTS catalogue

For further information, visit our website **www.souriau-industrial.com**
or contact us at **contactindustry@souriau.com**

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

INDUTSHSFLO2EN © Copyright SOURIAU - All information in this publication presents only general particulars and shall not form part of any contract. All rights reserved to SOURIAU for changes without prior notification or public announcement