

UTS

Hi seal with PC tail contacts



PCB mounted UTS Hi seal: rugged & plastic

Jam nut & Square flange receptacles with PC tail contacts were designed for applications in harsh environments where connectors are used in wet, corrosive and tight-space conditions.

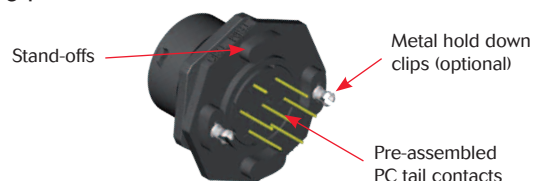
Wave soldering suitable



PC Tail contacts

Hold down clips for secure mechanical retention

Standoffs to ensure consistent height off PCB and to aid cleaning process



Excellent corrosion resistance



Plastic connector
> 500 hr salt spray

Leakage prevention when no cap



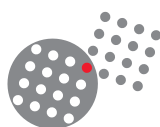
IP68/69K mated / unmated

UV-resistant



5 years of exposure without mechanical & visual degradation

**SEALED
UNMATED**



SOURIAU
Connection Technology



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Hi seal with PC tail contacts



Technical features

Mechanical

- **Housing & Backshell:** Thermoplastic UL94-V0
- **Insert:** Elastomer
- **Contacts:** Copper alloy - gold plated
Other platings on request
- **Endurance:** 250 mating/unmating
- **Vibrations:** 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 rating 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
according to MIL-DTL-26482
- **Working voltage:**
 - 600 V - contacts size 20
 - 1000 V - contacts size 16 according to
MIL-DTL-26482

Environmental

- **Temperature range:** -40°C to + 105°C
- **Salt spray resistance:** 500 hours
- **Sealing (mated/unmated):**
 - Dynamic IP68 - under water for 1 week,
1 bar
 - Dynamic IP69K per DIN 40050

- **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)



Ordering information

Connector family	UTS	7	-	8	D	2	P	-	-
Body variation	7 Jam nut receptacle 0 Square flange receptacle								
Backshell	No digit: No backshell								
Shell size	8, 10, 12, 14, 18								
Contact type	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								
Specification	No digit: Standard version 32: version with hold down clips (only for Jam nut receptacle)								

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Contacts layouts

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)

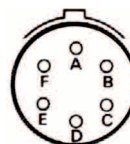
33



Contacts :
3 Ø 1 (#20)

Size 10

6



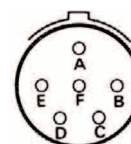
Contacts :
6 Ø 1 (#20)

7



Contacts :
7 Ø 1 (#20)

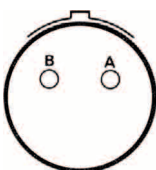
98



Contacts :
6 Ø 1 (#20)

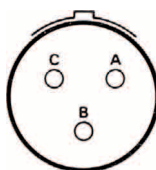
Size 12

2



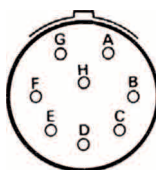
Contacts :
2 Ø 1.6 (#16)

3



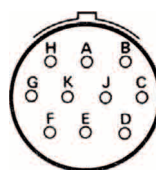
Contacts :
3 Ø 1.6 (#16)

8



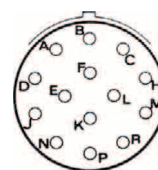
Contacts :
8 Ø 1 (#20)

10



Contacts :
10 Ø 1 (#20)

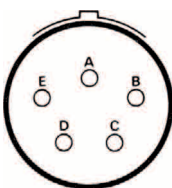
14



Contacts :
14 Ø 1 (#20)

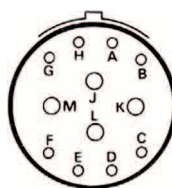
Size 14

5



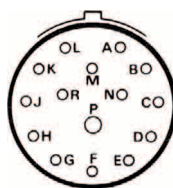
Contacts :
5 Ø 1.6 (#16)

12



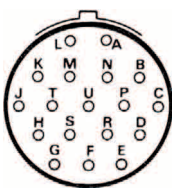
Contacts :
8 Ø 1 (#20)
4 Ø 1.6 (#16)

15



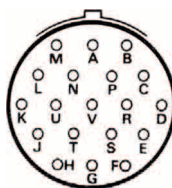
Contacts :
14 Ø 1 (#20)
1 Ø 1.6 (#16)

18



Contacts :
18 Ø 1 (#20)

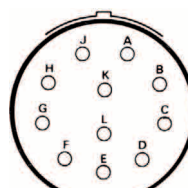
19



Contacts :
19 Ø 1 (#20)

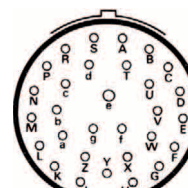
Size 18*

11



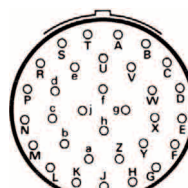
Contacts :
11 Ø 1.6 (#16)

30



Contacts :
29 Ø 1 (#20)
1 Ø 1.6 (#16)

32



Contacts :
32 Ø 1 (#20)

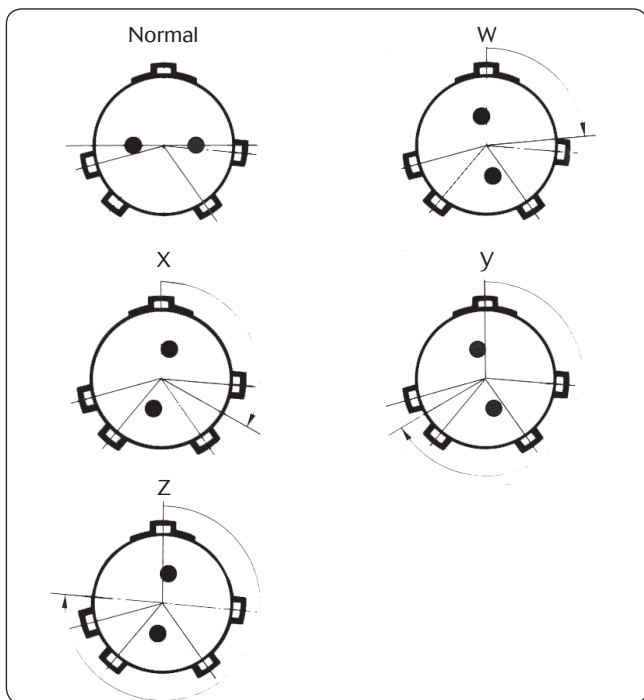
* Please consult factory

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Hi seal with PC tail contacts



Insert orientation*



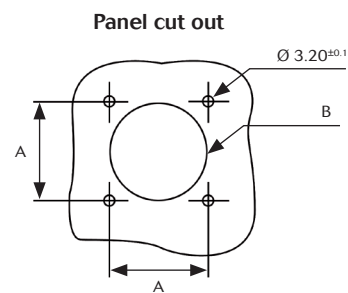
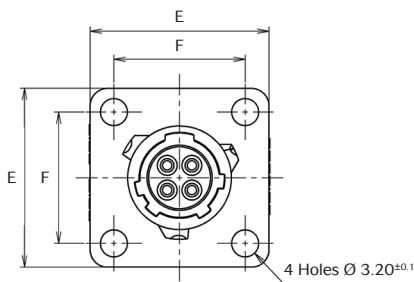
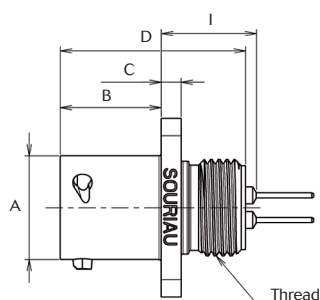
* Insert rotated in body (viewed from front face of male insert)

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

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

Range presentation

Square flange receptacle with PCB contacts



Shell size	Ø A ^{±0.15}	B max.	C ^{±0.15}	D max.	E ^{±0.25}	F ^{±0.25}	I		Thread	Panel cut out	
							Male connector	Female connector		A ^{±0.25}	Ø B ^{±0.1}
8	11.9	11.7	2.3	21.5	21	15.1	9.76 / 11.86 ⁽¹⁾ 10.78 / 13.09 ⁽²⁾	9.55 / 11.71 ⁽¹⁾ 10.82 / 12.79 ⁽²⁾	7 / 16 28 UNEF-2A	15.1	12.5
10	14.9				23.8	18.3	10.98 / 13.39	10.82 / 12.79	9 / 16 24 UNEF-2A	18.3	15.1
12	18.95				26.2	20.6	9.76 / 11.86 ⁽³⁾ 10.98 / 13.39	9.55 / 11.71 ⁽³⁾ 10.82 / 12.79	11 / 16 24 UNEF-2A	20.6	18.2
14	22.15				28.6	23.0	10.98 / 13.39	10.82 / 12.79	13 / 16 20 UNEF-2A	23.0	21.4
18	Please consult us										

⁽¹⁾ for layouts 8-2, 8-3, 8-4 / ⁽²⁾ for layouts 8-3A, 8-89, 8-33 / ⁽³⁾ for layout 12-14

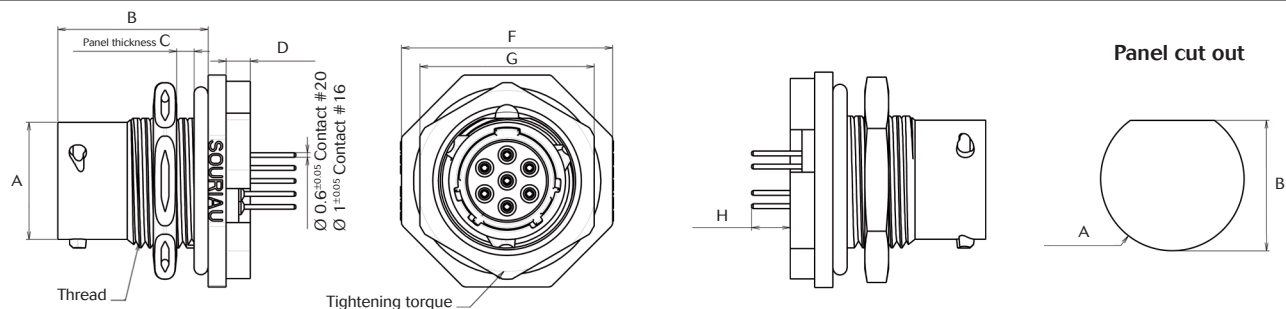
Note : all dimensions are in mm

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Hi seal with PC tail contacts



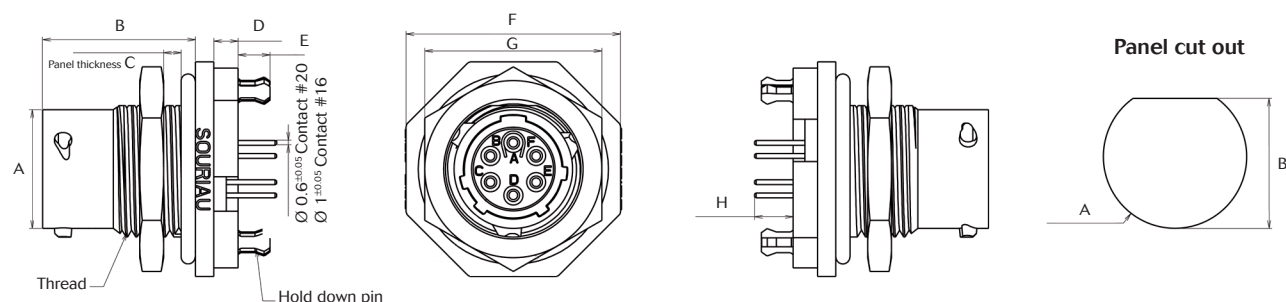
Jam nut receptacle with PCB contacts



Shell size	Ø A ^{±0.15}	B max.	C max. Panel thickness	D max.	F	G	H		Thread	Tightening torque (Nm)	Panel cut out	
							Male connector	Female connector			Ø A ^{±0.2}	B ^{±0.2}
8	12.0	19.3	3.2	3.4	24.0	19.3	3.8 / 6.0 ⁽¹⁾ 4.7 / 7.25 ⁽²⁾	3.75 / 5.8 ⁽¹⁾ 4.8 / 6.9 ⁽²⁾	9 / 16 24 UNEF 2A	2	14.6	13.75
10	14.9				28.0	22.2	4.8 / 7.28	4.91 / 6.96	9 / 16 24 UNEF 2A	2	17.7	16.5
12	19.0				31.8	27.0	4.8 / 7 ⁽³⁾ 3.85 / 5.9 ⁽⁴⁾	5.2 / 7 ⁽³⁾ 3.85 / 5.9 ⁽⁴⁾	7 / 8 20 UNEF 2A	4	22.5	21.2
14	22.2				34.9	30.2	4.8 / 7	5.3 / 7	1" 20 UNEF 2A	5	25.7	24.3
18	Please consult us											

⁽¹⁾ for layouts 8-2, 8-3, 8-4 / ⁽²⁾ for layouts 8-3A, 8-98, 8-33 / ⁽³⁾ for layouts 12-3, 12-, 12-10 / ⁽⁴⁾ for layout 12-14

Jam nut receptacle with PCB contacts & hold on clips



Shell size	Ø A ^{±0.15}	B max.	C max. Panel thickness	D max.	E ^{±0.2}	F	G	H		Thread	Tightening torque (Nm)	Panel cut out	
								Male connector	Female connector			Ø A ^{±0.2}	B ^{±0.2}
8	12.0	19.3	3.2	3.4	4	24.0	19.3	3.8 / 6.0 ⁽¹⁾ 4.7 / 7.25 ⁽²⁾	3.75 / 5.8 ⁽¹⁾ 4.8 / 6.9 ⁽²⁾	9 / 16 24 UNEF 2A	2	14.6	13.75
10	14.9					28.0	22.2	4.8 / 7.28	4.91 / 6.96	9 / 16 24 UNEF 2A	2	17.7	16.5
12	19.0					31.8	27.0	4.8 / 7 ⁽³⁾ 3.85 / 5.9 ⁽⁴⁾	5.2 / 7 ⁽³⁾ 3.85 / 5.9 ⁽⁴⁾	7 / 8 20 UNEF 2A	4	22.5	21.2
14	22.2					34.9	30.2	4.8 / 7	5.3 / 7	1" 20 UNEF 2A	5	25.7	24.3
18	Please consult us												

⁽¹⁾ for layouts 8-2, 8-3, 8-4 / ⁽²⁾ for layouts 8-3A, 8-98, 8-33 / ⁽³⁾ for layouts 12-3, 12-, 12-10 / ⁽⁴⁾ for layout 12-14

Note : all dimensions are in mm

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Accessories

Jam nut sealing caps



Part numbers	Shell size
UTS8DCG	8
UTS10DCG	10
UTS12DCG	12
UTS14DCG	14
UTS18DCG	18



Part numbers	Shell size
UTS8DCGR	8
UTS10DCGR	10
UTS12DCGR	12
UTS14DCGR	14
UTS18DCGR	18

Metal terminal*

Square flange sealing cap



Part numbers	Shell size
UTS8DCGE	8
UTS10DCGE	10
UTS12DCGE	12
UTS14DCGE	14
UTS18DCGE	18

Metal terminal*

Colour coding rings



Part numbers		Shell size
Receptacles	Plugs	
UTS710CCR*	UTS610CCR*	10
UTS712CCR*	UTS612CCR*	12
UTS714CCR*	UTS614CCR*	14

* Add G for Green, Y for Yellow, R for Red

For shell sizes 8 & 18, please consult factory

Gasket



Part numbers / neoprene	Shell size
UTFD 11B	8
UTFD 12B	10
UTFD 13B	12
UTFD 14B	14
UTFD 16B	18

Plastic protective cap



Part numbers		Shell size
Receptacle cap	Plug cap	
8500-5585A	8500-5594	8
8500-5586A	8500-5595	10
8500-5587A	8500-5596	12
8500-5588A	8500-5597	14
8500-5590A	8500-5599	18

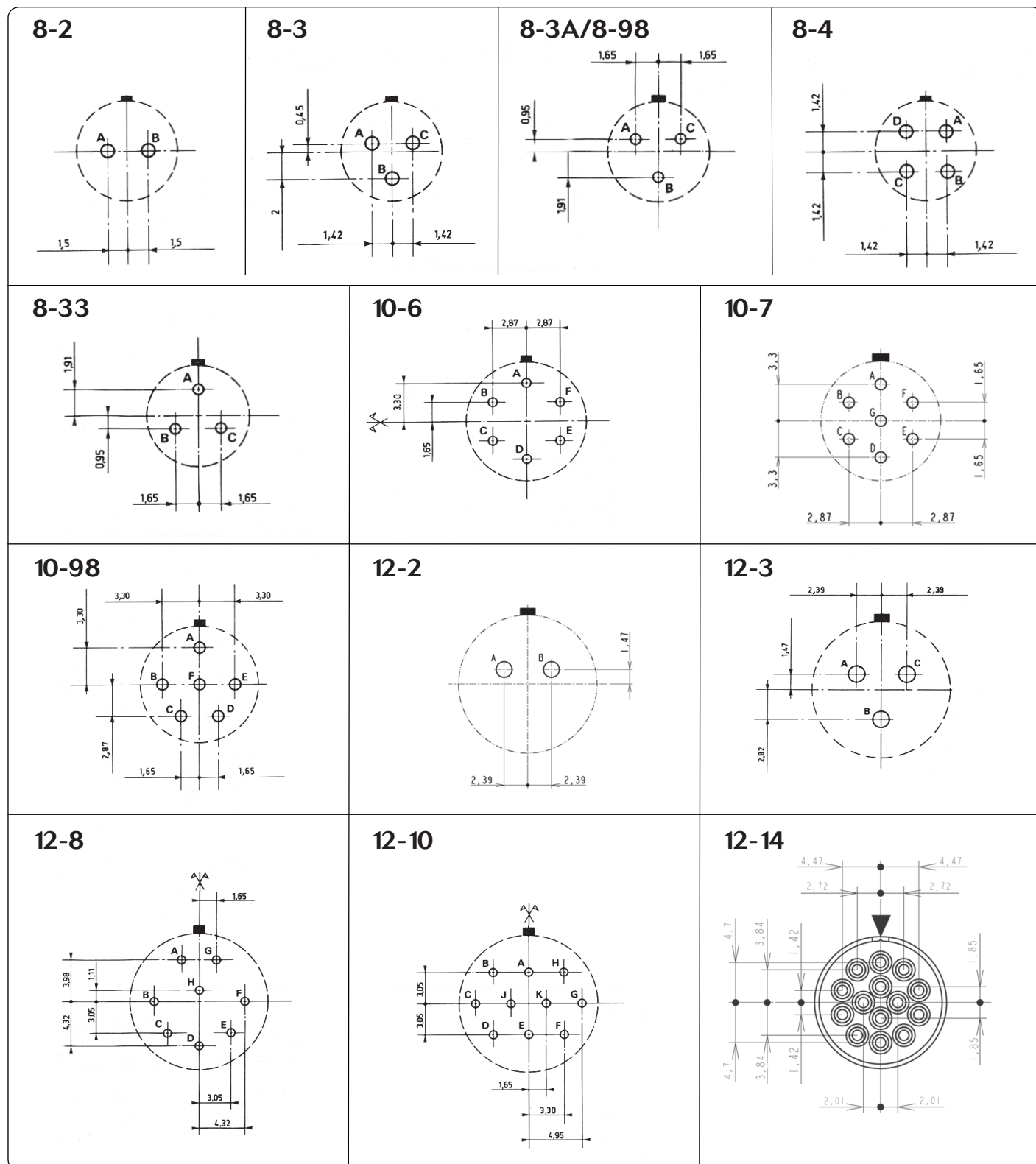
Note : all dimensions are in mm

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Hi seal with PC tail contacts



Drilling patterns



Note : all dimensions are in mm

[illegible]

Technical drawing of a circular mechanical part, likely a flange or end plate, showing dimensions in millimeters (mm). The drawing includes a central circular feature with a hole, surrounded by a larger circular flange. The dimensions are as follows:

- Overall Dimensions:**
 - Overall width: 8,91 mm
 - Overall height: 8,38 mm
- Central Feature:**
 - Central hole diameter: 4,80 mm
 - Inner circle diameter: 7,16 mm
- Flange Dimensions:**
 - Flange outer diameter: 8,53 mm
 - Flange inner diameter: 5,79 mm
 - Flange thickness: 2,44 mm
 - Flange hole diameter: 4,72 mm
- Internal Features and Labels:**
 - Internal hole diameter: 4,72 mm
 - Internal hole offset: 1,85 mm
 - Internal hole diameter: 1,93 mm
 - Internal hole diameter: 2,28 mm
 - Internal hole diameter: 5,51 mm
 - Internal hole diameter: 0,84 mm
 - Internal hole diameter: 1,93 mm
 - Internal hole diameter: 2,97 mm
 - Internal hole diameter: 5,16 mm
 - Internal hole diameter: 7,37 mm
- Other Dimensions:**
 - 8,53 mm (top left)
 - 7,16 mm (top center)
 - 5,79 mm (top center)
 - 4,72 mm (top center)
 - 1,85 mm (top right)
 - 2,44 mm (top right)
 - 2,13 mm (top left)
 - 8,38 mm (left side)
 - 7,55 mm (left side)
 - 5,33 mm (left side)
 - 4,21 mm (left side)
 - 2,35 mm (left side)
 - 0,20 mm (left side)
 - 3,15 mm (bottom center)
 - 1,75 mm (bottom center)
 - 4,90 mm (bottom center)
 - 5,98 mm (bottom center)
 - 8,00 mm (bottom center)
 - 8,91 mm (bottom center)

[illegible]

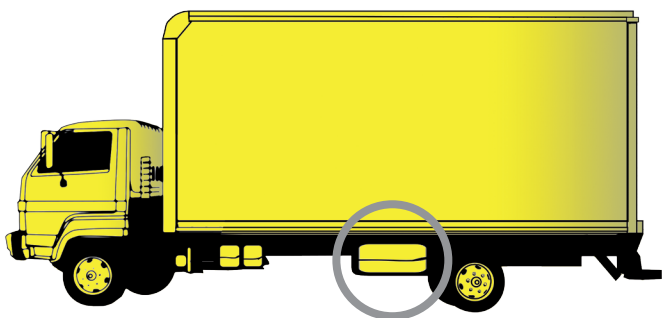
8

UTS

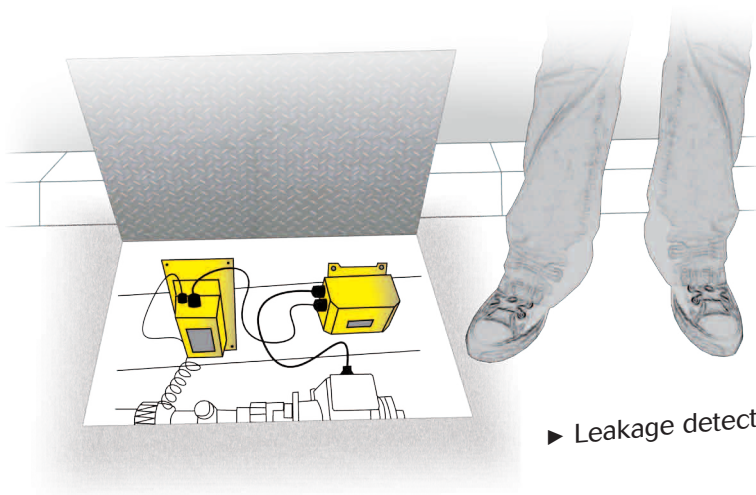
Hi seal with PC tail contacts



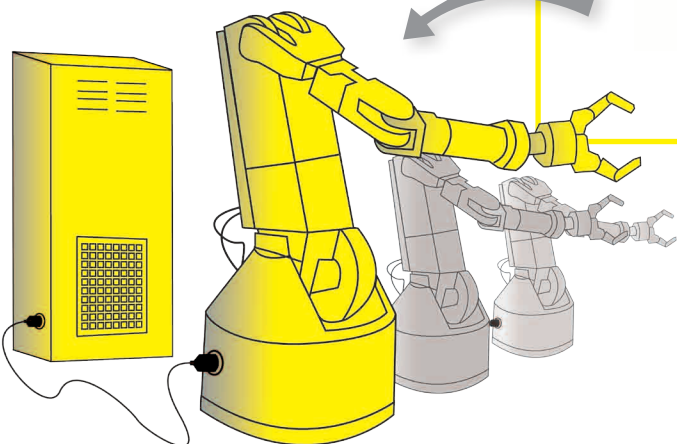
► Active steering system



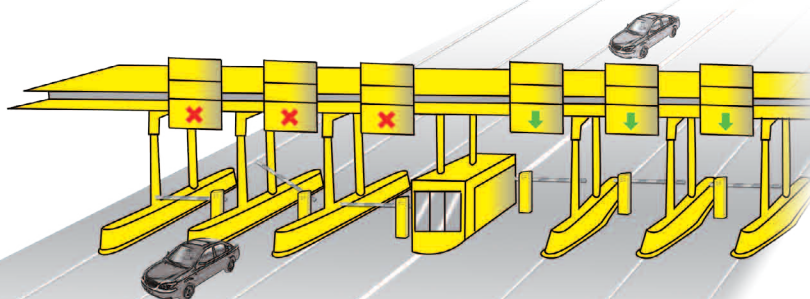
► Leakage detection



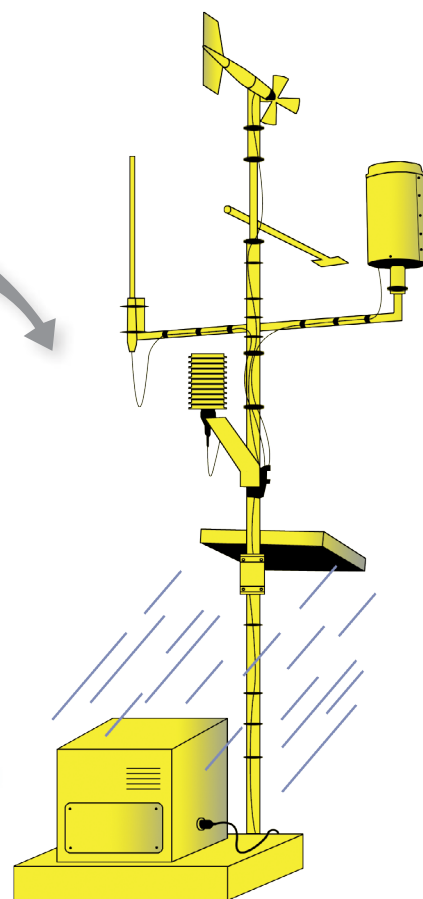
► Robot



► Road traffic management



► Outdoor weather station



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