

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

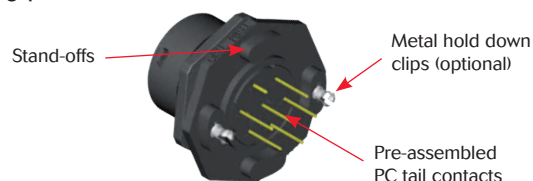


PC Tail contacts

Hold down clips for secure mechanical retention

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

**SEALED
UNMATED**



Excellent corrosion resistance



Plastic connector
> 500 hr salt spray

Leakage prevention when no cap

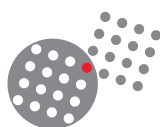


IP68/69K mated / unmated

UV-resistant



5 years of exposure without mechanical & visual degradation



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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)

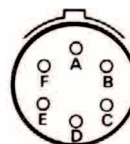
33



Contacts :
3 Ø 1 (#20)

Size 10

6



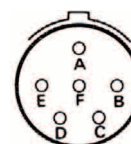
Contacts :
6 Ø 1 (#20)

7



Contacts :
7 Ø 1 (#20)

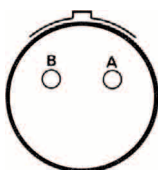
98



Contacts :
6 Ø 1 (#20)

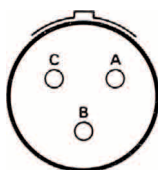
Size 12

2



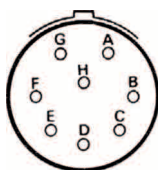
Contacts :
2 Ø 1.6 (#16)

3



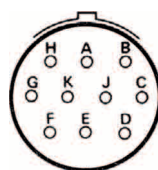
Contacts :
3 Ø 1.6 (#16)

8



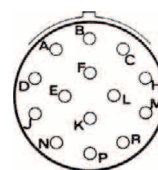
Contacts :
8 Ø 1 (#20)

10



Contacts :
10 Ø 1 (#20)

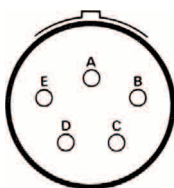
14



Contacts :
14 Ø 1 (#20)

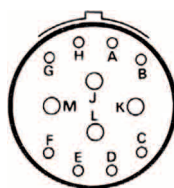
Size 14

5



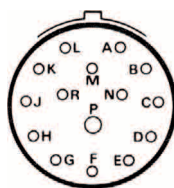
Contacts :
5 Ø 1.6 (#16)

12



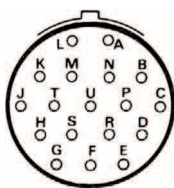
Contacts :
8 Ø 1 (#20)
4 Ø 1.6 (#16)

15



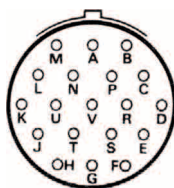
Contacts :
14 Ø 1 (#20)
1 Ø 1.6 (#16)

18



Contacts :
18 Ø 1 (#20)

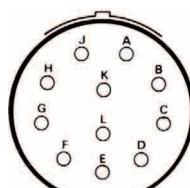
19



Contacts :
19 Ø 1 (#20)

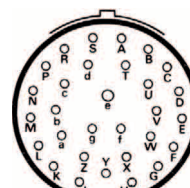
Size 18*

11



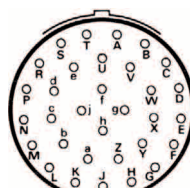
Contacts :
11 Ø 1.6 (#16)

30



Contacts :
29 Ø 1 (#20)
1 Ø 1.6 (#16)

32



Contacts :
32 Ø 1 (#20)

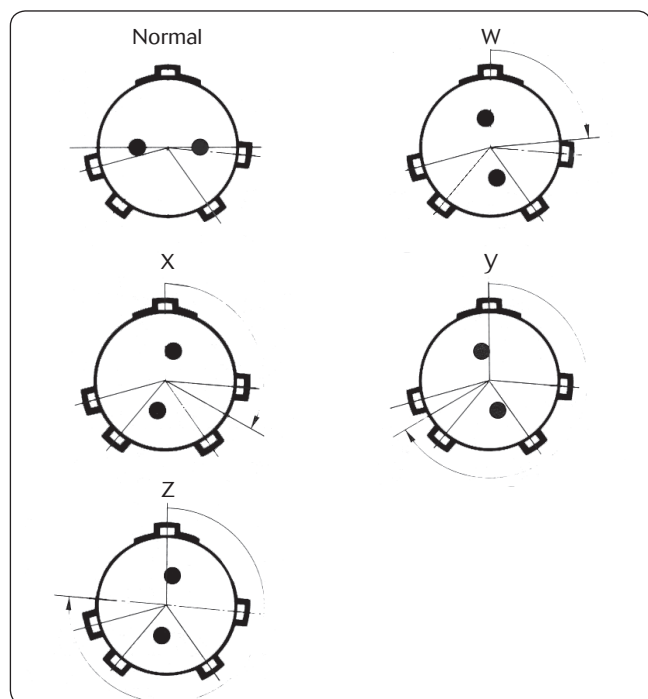
* Please consult factory

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Hi seal with PC tail contacts



Insert orientation*



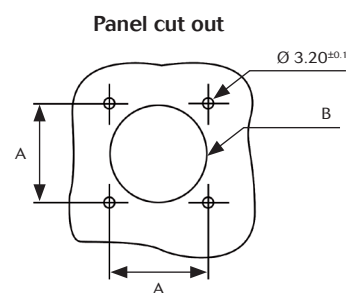
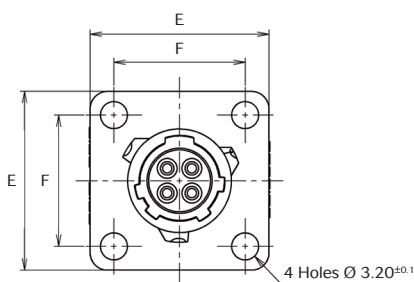
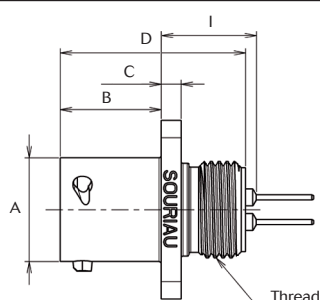
* Insert rotated in body (viewed from front face of male insert)

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

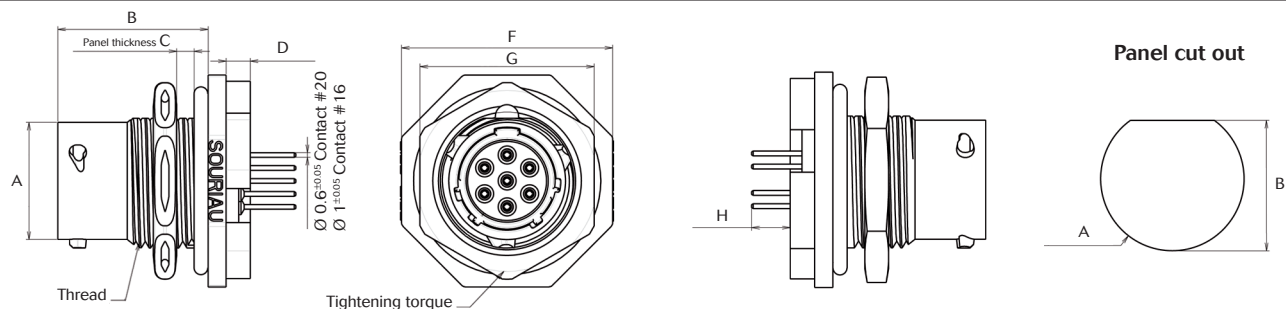
Note : all dimensions are in mm

UTS

Hi seal with PC tail contacts



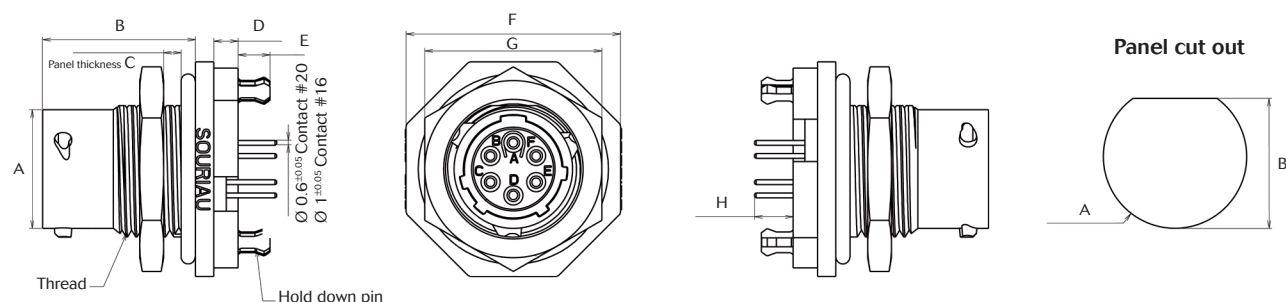
Jam nut receptacle with PCB contacts



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



Metal terminal*

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

Square flange sealing cap



Metal terminal*

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

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

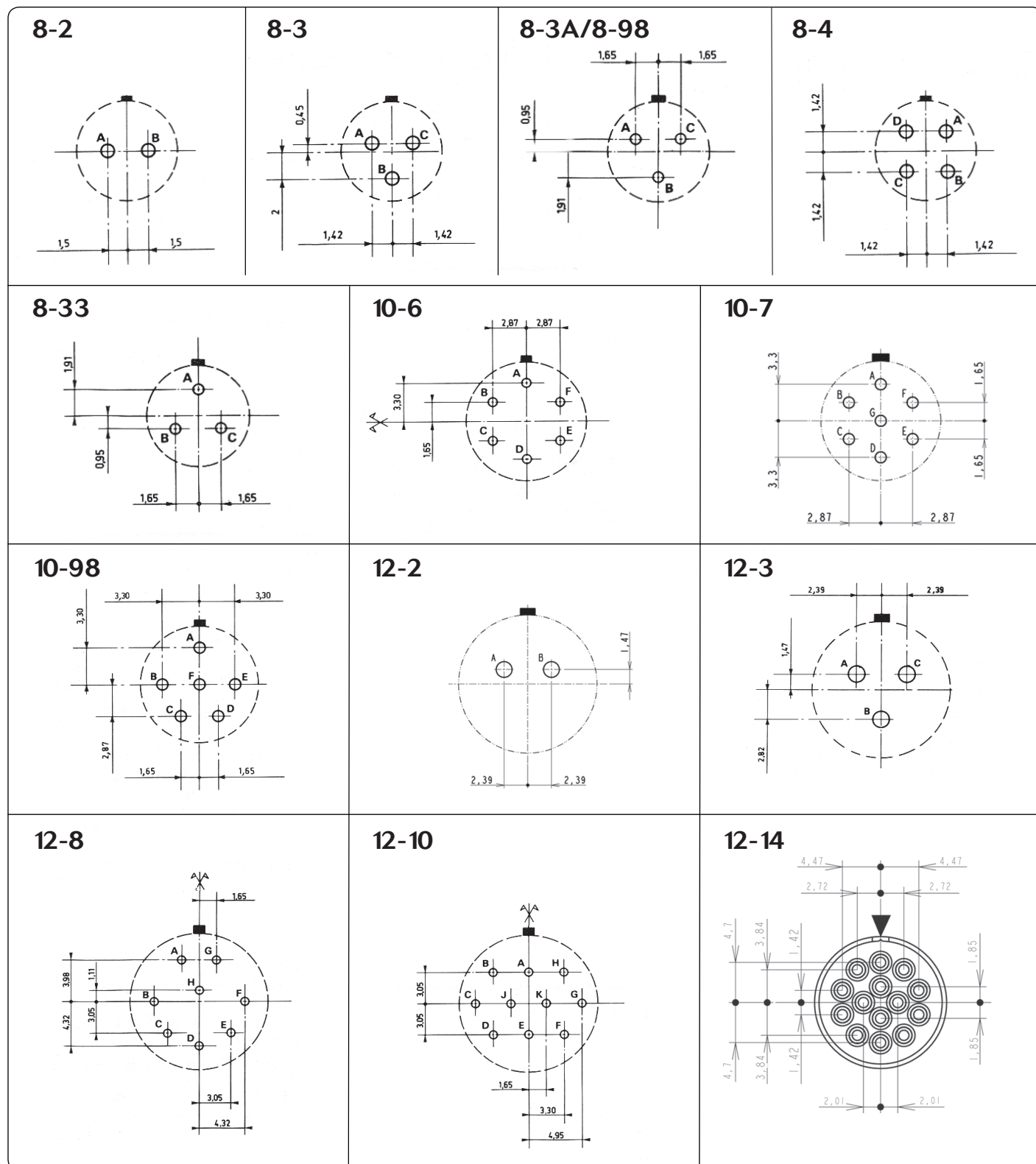
Note : all dimensions are in mm

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Hi seal with PC tail contacts



Drilling patterns



Note : all dimensions are in mm

Technical drawing of a circular part with 10 holes. The part has a circular body with a central hole and a rectangular extension at the bottom. Dimensions are given in millimeters. Holes are labeled A through L. A key is shown in the center hole K.

Dimensions (mm):

- Overall width: 6.93
- Overall height: 6.93
- Distance from top edge to center of hole A: 5.60
- Distance from top edge to center of hole B: 5.46
- Distance from top edge to center of hole C: 5.46
- Distance from top edge to center of hole D: 5.46
- Distance from top edge to center of hole E: 5.46
- Distance from top edge to center of hole F: 5.46
- Distance from top edge to center of hole G: 5.46
- Distance from top edge to center of hole H: 5.46
- Distance from top edge to center of hole I: 5.46
- Distance from top edge to center of hole J: 5.46
- Distance from top edge to center of hole K: 5.46
- Distance from top edge to center of hole L: 5.46
- Distance from top edge to center of hole M: 5.46
- Distance from top edge to center of hole N: 5.46
- Distance from top edge to center of hole O: 5.46
- Distance from top edge to center of hole P: 5.46
- Distance from top edge to center of hole Q: 5.46
- Distance from top edge to center of hole R: 5.46
- Distance from top edge to center of hole S: 5.46
- Distance from top edge to center of hole T: 5.46
- Distance from top edge to center of hole U: 5.46
- Distance from top edge to center of hole V: 5.46
- Distance from top edge to center of hole W: 5.46
- Distance from top edge to center of hole X: 5.46
- Distance from top edge to center of hole Y: 5.46
- Distance from top edge to center of hole Z: 5.46

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: 1,75 mm
 - Inner circle diameter: 3,15 mm
- Flange Dimensions:**
 - Flange outer diameter: 8,00 mm
 - Flange inner diameter: 5,90 mm
 - Flange thickness: 1,75 mm
- Internal Features and Dimensions:**
 - Internal hole diameter: 4,90 mm
 - Internal hole offset: 4,72 mm
 - Internal hole offset: 5,79 mm
 - Internal hole offset: 7,16 mm
 - Internal hole offset: 6,80 mm
 - Internal hole offset: 2,44 mm
 - Internal hole offset: 1,05 mm
 - Internal hole offset: 2,13 mm
 - Internal hole offset: 1,93 mm
 - Internal hole offset: 3,28 mm
 - Internal hole offset: 5,51 mm
 - Internal hole offset: 0,84 mm
 - Internal hole offset: 1,93 mm
 - Internal hole offset: 2,97 mm
 - Internal hole offset: 5,16 mm
 - Internal hole offset: 7,37 mm
- Labels:**
 - A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z

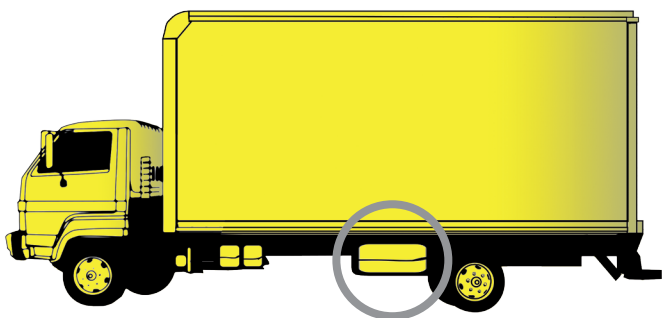
8

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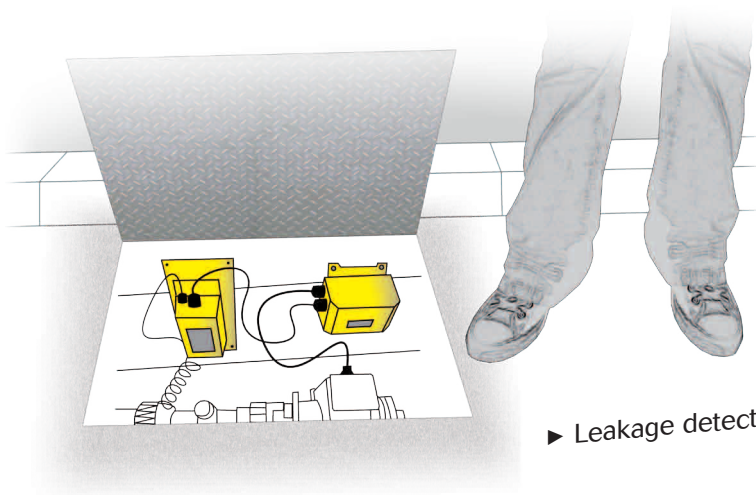
Hi seal with PC tail contacts



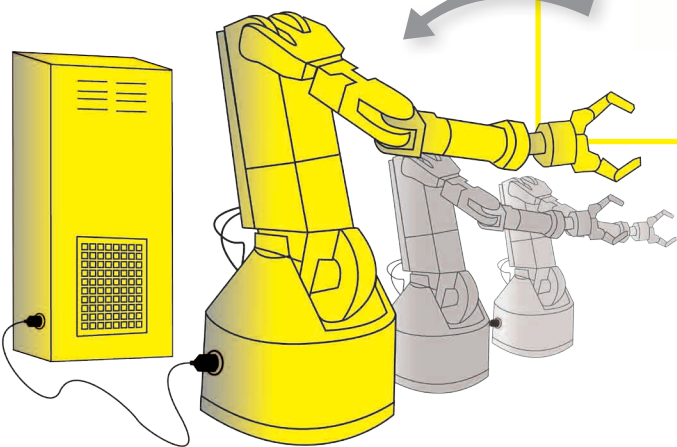
► Active steering system



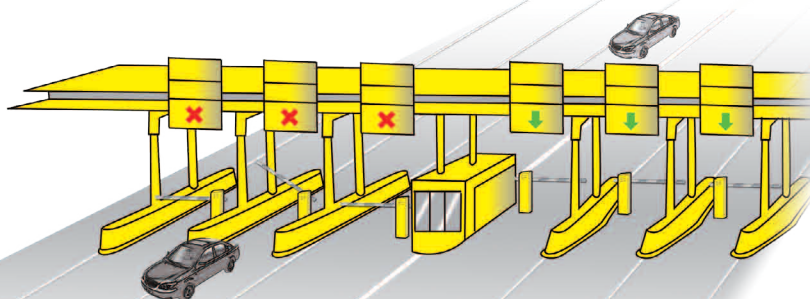
► Leakage detection



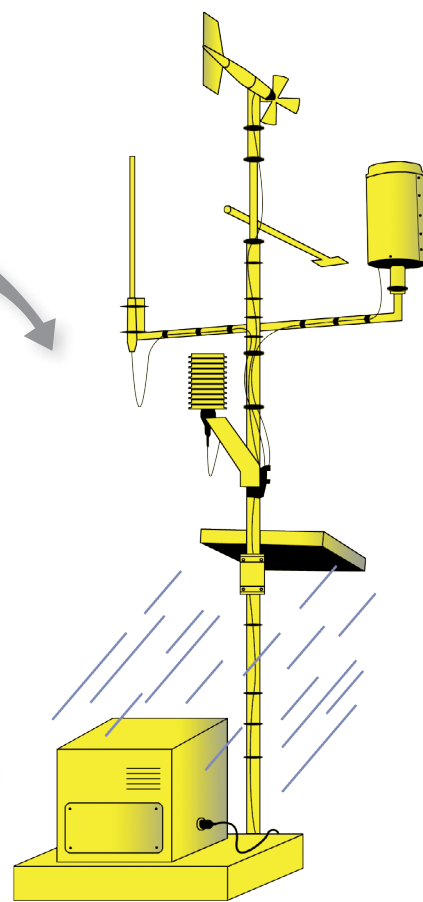
► Robot



► Road traffic management



► Outdoor weather station



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