8T SERIES

SOURIAU

Low Profile Bayonet Connectors

MIL-DTL-38999 Series II

Esterline
Connection Technologies

Presentation

38999 bayonet circular connector for more compacity

The design and performances of the 8T connectors meet the most severe requirements set for applications in military and civil aerospace. With the increasing requirement for Space, Weight and Power (SWaP) reduction, SOURIAU has more than doubled its 8T range. It features:

- Lower profile design: Lightweight, space saving (30% shorter compared to 8LT Series)
- High reliability: EMI shielding, excellent shock vibration and fluid resistance, QPL approuved
- A high contact density: From 1 to 128 contacts
- A wide range: 11 different shells available, 43 layouts available from size 8 to 24

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8T SERIES

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8T Series

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Typical applications

Civil and Military Aerospace

Missiles and Weapon Systems

Armored Carrier and Tanks

Communication Equipment

Medical Instrumentation

Marine Equipment

Features & Benefits

QPL

MIL-DTL-38999 Qualified

39 qualified layouts.
High reliability: EMI shielding, excellent shock vibration and fluid resistance.

QUICK MATING

Fast and secure mating

Bayonet quick coupling system.
Audible, sensitive and visible coupling.

LOW PROFILE

Space and weight saving

Lower profile connector design: integrated backshell and short grommet versions.
30% shorter compared to 38999 Series I.

LARGE OFFER

Versatility

11 different shells, 43 layouts available from size 8 to 24.
High contact density: from 1 to 128 contacts.
Crimp contacts with rear release and a retainer metallic clip.

RoHS

Environment friendly

RoHS black zinc nickel plating available.
RoHS nickel plating available.

A large offer

PLUGS

Plug with grounding ring

8T5
MS27484T

8T15

Plug without grounding ring

8T6
MS27473T

8T16

RECEPTACLES

Square flange receptacle front mounting

8T0
MS27472T

8T4
MS27499E

8T10

Square flange receptacle rear mounting

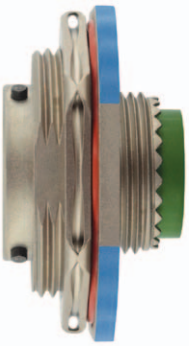
8T3
MS27497T

8T2
MS27508E

In line receptacle

8T1

Jam nut receptacle



8T7
MS27474T

ACCESSORIES

Backshells
6 styles of backshells,
Straight or **right angle**,
4 platings available

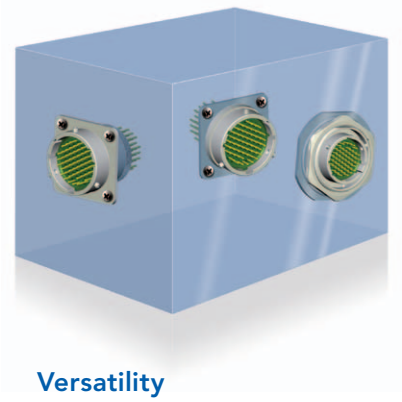
Please see page 24.

Metalic caps
Caps for **plug** or **receptacle**,
Cord with **eyelet** or **ring**
2 platings available

Please see page 27.

Main characteristics

Box Solutions



Versatility
Square flange **rear mounting**,
Square flange **front mounting**,
Integrated backshell,
Jam nut receptacle

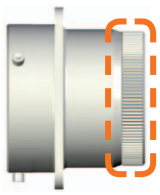
Space Saving

Shell size comparison
8T Series shorter for all shell types compared to 8LT Series

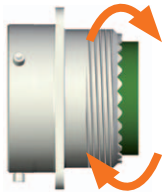
A versatile range available

FROM YOUR NEED...

Short grommet



Integrated backshell



With accessory threads

Receptacle		Receptacle	Plug		Receptacle				Plug	
Square flange + Rear mounting	Square flange + Front mounting	Square flange + Front mounting	With grounding ring	Without grounding ring	Square flange + Front mounting	Square flange + Rear mounting	In line	Jam nut	With grounding ring	Without grounding ring
8T2	**8T4**	**8T10**	**8T15**	**8T16**	**8T0**	**8T3**	**8T1**	**8T7**	**8T5**	**8T6**

...TO OUR SOLUTION!

A universal product platform

38999 Series I
MIL-DTL-38999
8LT Series

. High density MIL-spec circular
. Scoop proof
. Bayonet coupling
. Mounting: screws or jam nut
. Shell: Aluminum alloy
. Plating: Cadmium or nickel
. QPL approved
. Numerous layouts

Please consult our
"8LT Series MIL-DTL-38999 Series I"
online catalog on:
www.esterline-connection-technologies.com

38999 Series III
MIL-DTL-38999
8D Series

. High density MIL-spec circular
. Scoop proof, fast screw coupling
. Composite light-weight version
. Hermetic version
. QPL approved
. Quadrax and ELIO® version
. Specific design: clinch nuts,
high power, double flange, ...

Please consult our
"8D Series MIL-DTL-38999 Series III /
EN3645" online catalog on:
www.esterline-connection-technologies.com

VG96912 &
JN1003
8ST Series

. High density
. Lightweight version of Series I
. Scoop proof, bayonet coupling
. Mounting: screws or jam nut
. Shell: Aluminum alloy
. Plating: Cadmium or nickel
. VG 96912 German specification
. JN 1003 Typhoon specification

Please consult our
"8ST Series VG96912 / JN1003"
online catalog on:
www.esterline-connection-technologies.com

Worldwide sales network

SOURIAU is recognized as one of the top international manufacturers of connectors for harsh environment and is continuously strengthening its leading position through its solid structure as an international group. Today the SOURIAU group has a strong worldwide global presence on 4 continents.

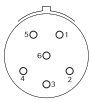
Our international presence is reinforced by franchised and value added distributors in many countries. We also rely upon an extensive network of distributors and resellers worldwide. This coverage, together with a strong commitment towards service, ensures rapid responses to the specific needs of our customers.

- Operations and Sales Offices
- Value Added Distributors and Franchised

Contact layouts

08

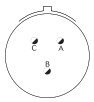
35



6#22D

Service M

98



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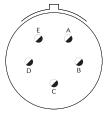

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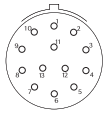

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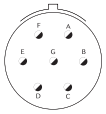

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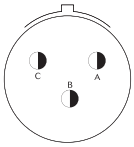
Service I

Contact #22D
Contact #20
Contact #16
Contact #12

12

03



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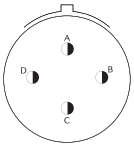

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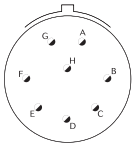

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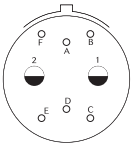

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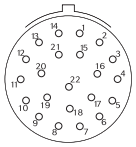

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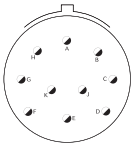

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Service I

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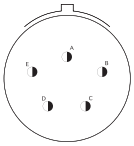

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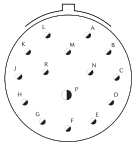

14#20
1#16

Service I

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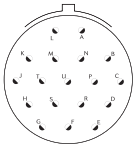

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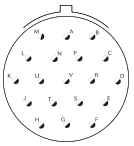

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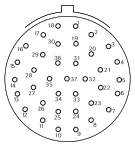

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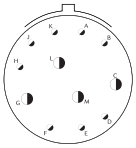

8#20
4#16

Service I

16

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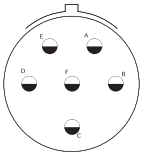
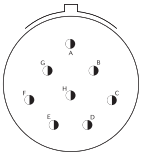


6#12
or 6#12 Coax

Service I

08*



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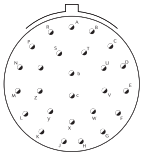

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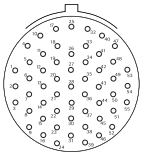

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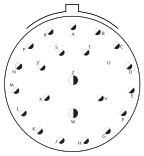
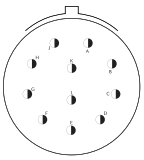
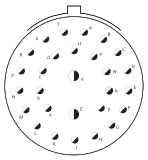
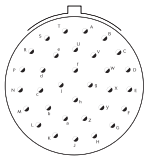
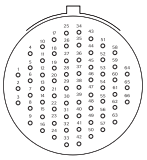


2#16
21#20

Service I

* Layout not available on 8T2 & 8T4 (short grommet). On demand only, please consult us.
** Layout not available on 8T2 & 8T4 (short grommet) / Layout available on other types (long grommet) but only with male insert. For female version or short grommet, please consult us.

18

11*	28	32	35
			
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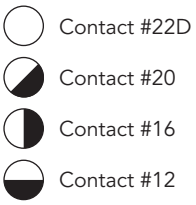
Service II	Service I	Service I	Service M



20

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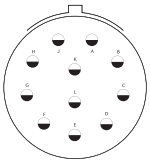	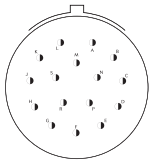	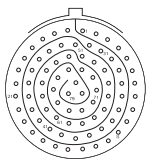	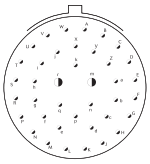	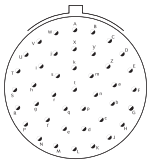
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Service I	Service II	Service M	Service I	Service I

22

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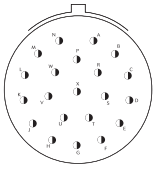	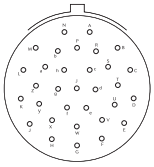	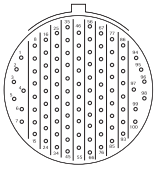	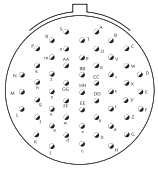	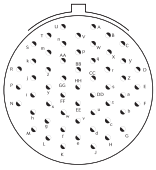
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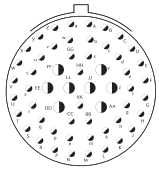
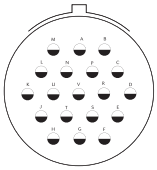
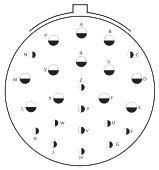
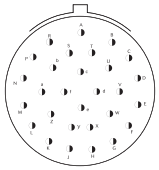
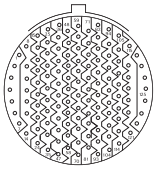
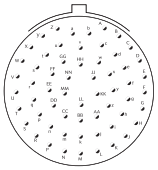
Service II	Service I	Service M	Service I	Service I

24

04	19*	24*	29*	35	61*
					
48#20 8#16	19#12	12#12 12#16	29#16	128#22D	61#20
Service I	Service I	Service I	Service I	Service M	Service I

* Layout not available on 8T2 & 8T4 (short grommet). On demand only, please consult us.

Contact layouts (matrix)

Shell Size	Layout	Service	8T	MIL-DTL-38999 (QPL)	HE309	Number of Contacts	#22D	#20	#16	#12
08	08-35	M	OK	Q	Q	6	6			
	08-98	I	OK	Q	Q	3		3		
10	10-05	I	OK	Q (1)		5		5		
	10-35	M	OK	Q	Q	13	13			
	10-98	I	OK	Q	Q	6		6		
	10-99	I	OK	Q		7		7		
12	12-03	I	OK	Q		3			3	
	12-04	I	OK	Q (1)	Q	4			4	
	12-08	I	OK			8		8		
	12-26	M	OK			8	6			2
	12-35	M	OK	Q	Q	22	22			
	12-98	I	OK	Q	Q	10		10		
14	14-05	II	OK	Q (1)	Q	5			5	
	14-15	I	OK	Q (1)		15		14	1	
	14-18	I	OK	Q		18		18		
	14-19	I	OK		Q	19		19		
	14-35	M	OK	Q	Q	37	37			
	14-97	I	OK	Q	Q	12		8	4	
16	16-06	I	OK	Q	Q	6		6 or 6 Coax		
	16-08	II	OK	Q (1)	Q	8			8	
	16-26	I	OK	Q (1)	Q	26		26		
	16-35	M	OK	Q	Q	55	55			
	16-99	I	OK	Q	Q	23		21	2	
18	18-11	II	OK	Q (1)	Q	11			11	
	18-28	I	OK	Q		28		26	2	
	18-32	I	OK	Q	Q	32		32		
	18-35	M	OK	Q	Q	66	66			
20	20-11	I	OK			11				11
	20-16	II	OK	Q	Q	16			16	
	20-35	M	OK	Q	Q	79	79			
	20-39	I	OK	Q (2)	Q	39		37	2	
	20-41	I	OK	Q	Q	41		41		
22	22-21	II	OK	Q (1)	Q	21			21	
	22-32	I	OK	Q		32		32		
	22-35	M	OK	Q	Q	100	100			
	22-53	I	OK		Q	53		53		
	22-55	I	OK	Q		55		55		
24	24-04	I	OK	Q		56		48	8	
	24-19	I	OK	Q (1)	Q	19				19
	24-24	II	OK	Q (1)		24			12	12
	24-29	I	OK	Q (1)	Q	29			29	
	24-35	M	OK	Q	Q	128	128			
	24-61	I	OK	Q (1)	Q	61		61		

OK SOURIAU's layout
Q SOURIAU's layout & layout according to corresponding norm
(1) Not qualified for short grommet version (8T2 & 8T4)
(2) Not qualified for 8T4 short grommet version

8T SERIES

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8T Series

Standard Series

- Technical features 16
- Ordering information 17
- Dimensions:
  - Plugs: 8T5, 8T15, 8T6 & 8T16 types 19
  - In line receptacle: 8T1 type 20
  - Jam nut receptacle: 8T7 type 20
  - Square flange receptacles: 8T0, 8T2, 8T3, 8T4 & 8T10 types 21
- Receptacle with straight PC tail contacts 23
- Mated/unmated connectors 23
- Aluminum backshells 24
- Aluminum protective caps 27

Description

- Low profile / No scoop proof
- Bayonet locking system
- 11 shell types
- 43 layouts
- High density connector from 1 to 128 contacts
- Excellent shock vibration and fluid resistance
- QPL qualified
- Standards:
  - MIL-C 38999 Series II
  - NFC 93422 HE 309
  - VG 96912 Series II
  - PAN 6433-1
  - BS 9522 N 003

Technical features

Mechanical

- **Shell:** Aluminum alloy
- **Plating:**
  Black zinc nickel (Z)
  Nickel (F)
  Olive green cadmium (B)
  Hard anodized (C)
- **Insulator:** Thermoplastic
- **Grommet and seal:** Silicone elastomer
- **Contact:** Copper alloy
- **Plating:** Gold over nickel
- **Endurance:**
  500 mating cycles
- **Shock:** 300g, 3ms duration
- Vibration:
  Random 100 to 1000Hz - 1g2/Hz
- Contact retention (mini force in N):
  Size 22D: 44N Size 16: 110N
  Size 20: 67N Size 12: 110N

Electrical

- **Test voltage (Vrms):**

Service	Sea level	at 21 000 m
M	1300	800
I	1800	1000
II	2300	1000

- **Contact resistance:**
  Size 22D: 14.6mΩ
  Size 20: 7.3mΩ
  Size 16: 3.8mΩ
  Size 12: 3.5mΩ
- **Insulation resistance:**
  ≥ 5000MΩ (at 500Vdc)
- **Contact rating:**
  Size 22D: 5A Size 16: 13A
  Size 20: 7.5A Size 12: 23A
- **Shell continuity (with EMI ring):**
  Black zinc nickel plating: 2.5mΩ
  Olive green plating: 2.5mΩ
  Nickel plating: 1mΩ

Environmental

- **Temperature range:**
  Zinc nickel plating (Z): -65°C +175°C
  Cadmium plating (B): -65°C +175°C
  Nickel plating (F): -65°C +200°C
  Hard anodized (C): -65°C +200°C
- **Sealing (mated connectors):**
  Differential pressure 1 bar
  Leakage ≤ 8cm³/h
- **Salt spray to:**
  MIL-STD 1344 method 1001:
  . 500 hours (plating B & Z)
  . 48 hours (plating F & C)

  NFC 93422: 48 hours (plating F & C)
- **Damp heat:**
  MIL-C 38999: 10 cycles (24 hours)
  NFC 93422: 56 days
- **Resistance to fluids:**
  To MIL-L 38999:
  MIL-L 7808, MIL-L 23699, MIL-H 5606, MIL-A 8243, MIL-C 87936, MIL-G 3056, MIL-T 5624 (JP5); hydraulic fluids; solvents

  To NFC 93422:
  F 46, F 54, 0/180, H 515, H 542, XH 45

Ordering information

SOURIAU part number

Basic Series	8T	0	-	14	B	35	P	N	

Shell type:
- **0:** Square flange receptacle (front mount with accessory threads)
- **1:** In line receptacle (with accessory threads)
- **2:** Square flange receptacle (rear mount without accessory threads)
- **3:** Square flange receptacle (rear mount with accessory threads)
- **4:** Square flange receptacle (front mount without accessory threads)
- **5:** Plug with RFI shielding
- **6:** Plug without RFI shielding
- **7:** Jam nut receptacle (with accessory threads)
- **10:** Square flange receptacle (front mount, rear knurling)
- **15:** Plug with RFI shielding (rear knurling)
- **16:** Plug without RFI shielding (rear knurling)

Contact style: (for more information please see page 30)
- **-:** Connectors with standard crimp contacts
- **L:** Receptacle with long PC tail
- **C:** Receptacle with short PC tail
- **P:** Receptacle with solder cup

Shell size: 08; **10**; **12**; **14**; **16**; **18**; **20**; **22**; **24**

Plating:
- **Z:** Black zinc nickel
- **F:** Nickel
- **B:** Olive drab cadmium
- **C:** Hard anodized

Contact layout: See pages 11 to 13

Contact type:
- **P:** Pin
- **S:** Socket
- **A:** Connector supplied less pin contact or with specific contacts (connector marking : A + orientation)
- **B:** Female connector without contact or with special contacts (connector marking : B + orientation)

Orientation: N, **A**, **B**, **C** & **D**

Special custom:
- **None:** Standard plastic cap
- **M:** Antistatic plastic cap

L: For P and S contact type only, connector delivered without contacts, connector marking P or S (without L)

MIL-DTL-38999 Series II part number

Basic Series	MS	27497T	14	B	35	P	

Shell type & Class:
- **27472T:** Square flange receptacle (front mount with accessory threads)
- **27508E:** Square flange receptacle (rear mount without accessory threads)
- **27497T:** Square flange receptacle (rear mount with accessory threads)
- **27499E:** Square flange receptacle (front mount without accessory threads)
- **27484T:** Plug with RFI shielding
- **27473T:** Plug without RFI shielding
- **27474T:** Jam nut receptacle (with accessory threads)
- **27472E:** Square flange receptacle (front mount, with accessory threads and backnut)
- **27484E:** Plug with RFI shielding (with accessory threads and backnut)
- **27473E:** Plug without RFI shielding (with accessory threads and backnut)

Shell size: 08; **10**; **12**; **14**; **16**; **18**; **20**; **22**; **24**

Plating:
- **Z:** Black zinc nickel
- **B:** Olive drab cadmium
- **F:** Nickel

Contact layout: See pages 11 to 13

Contact type:
- **P:** Pin
- **S:** Socket
- **A:** Connector supplied less pin contact or with specific contacts (connector marking : A + orientation)
- **B:** Female connector without contact or with special contacts (connector marking : B + orientation)

Orientation:
- **empty:** N
- **A**, **B**, **C** & **D**

L: For P and S contact type only, connector delivered without contacts, connector marking P or S (without L)

HE309 Series part number

Basic Series	HE309	03	T	10	35	P	N	6	L

Shell type:
- **03:** Square flange receptacle with thread for back fitting
- **05:** Square flange receptacle without thread for back fitting
- **06:** Plug without RFI shielding
- **07:** Jam nut receptacle

Class:
- **T:** Sealed

Shell size: 08; **10**; **12**; **14**; **16**; **18**; **20**; **22**; **24**

Contact layout: See pages 11 to 13

Contact type:
- **P:** Pin
- **S:** Socket

Orientation: N, **A**, **B**, **C** & **D**

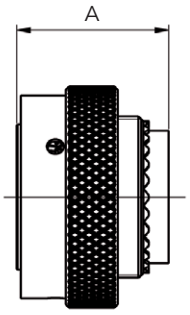
Plating:
- **6:** Nickel
- **7:** Olive drab cadmium
- **8:** Hard anodized

Specification
- **-:** Connector delivered with contacts
- **L:** Connector delivered without contacts

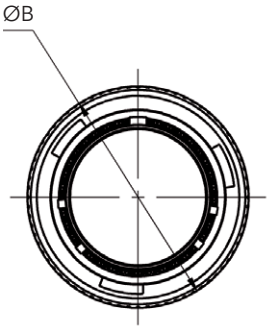
Dimensions

Plug 8T5 type & 8T15 type

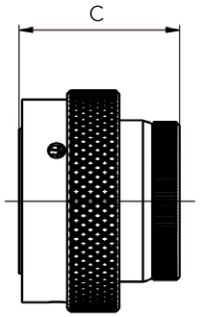
8T5 type
Plug with
accessories thread,
with grounding ring



8T5 type



8T5/8T15 types

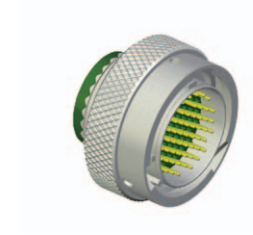


8T15 type

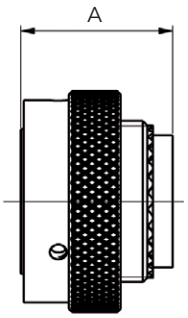
8T15 type
Plug with
integrated backshell,
with grounding ring

Shell size		08	10	12	14	16	18	20	22	24
A	Min.	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26
	Max.	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59
ØB		21.73	24.87	28.93	32.43	35.63	38.43	41.10	44.78	47.93
C	Min.	23.38	23.38	23.38	23.38	23.38	23.38	23.38	23.38	23.38
	Max.	23.57	23.57	23.57	23.57	23.57	23.57	23.57	23.57	23.57

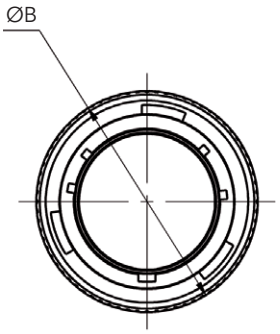
Plug 8T6 type & 8T16 type



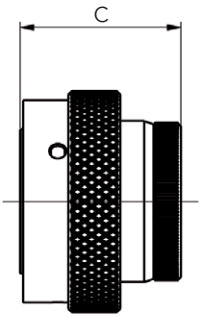
8T6 type
Plug with
accessories thread,
without grounding ring



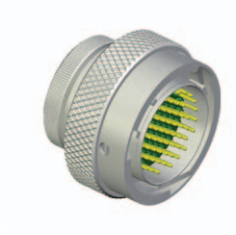
8T6 type



8T6/8T16 types



8T16 type



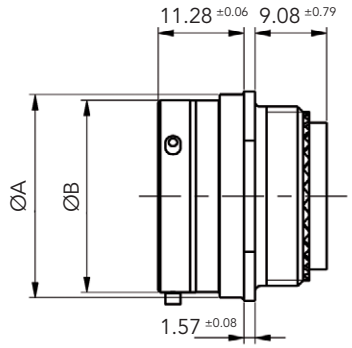
8T16 type
Plug with
integrated backshell,
without grounding ring

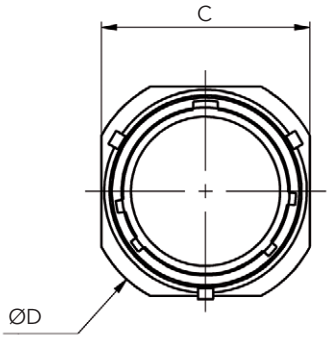
Shell size		08	10	12	14	16	18	20	22	24
A	Min.	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31
	Max.	22.65	22.65	22.65	22.65	22.65	22.65	22.65	22.65	22.65
ØB $^{\pm 0.1}$		19.03	21.78	26.13	29.33	32.48	35.28	38.83	41.63	44.83
C	Min.	23.43	23.43	23.43	23.43	23.43	23.43	23.43	23.43	23.43
	Max.	23.63	23.63	23.63	23.63	23.63	23.63	23.63	23.63	23.63

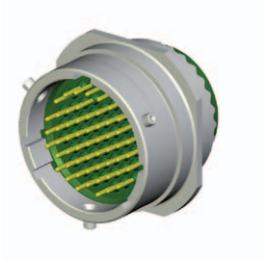
Note: All dimensions are in millimeters (mm)

Dimensions

In-line receptacle 8T1 type



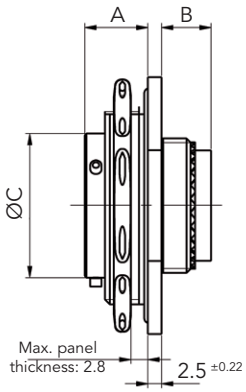


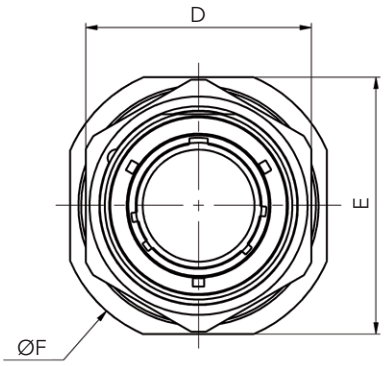


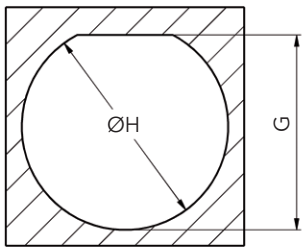
8T1 type
In line receptacle
with accessories thread

Shell size	08	10	12	14	16	18	20	22	24
ØA ±0.07	13.19	16.14	20.43	23.65	26.78	29.95	33.13	36.30	39.50
ØB ±0.08	11.96	14.93	19.00	22.17	25.35	28.52	31.70	34.87	38.05
C ±0.25	14.38	18.68	21.98	25.38	27.58	31.11	34.38	37.78	41.78
ØD ±0.27	17.80	22.10	25.40	28.80	31.00	34.40	37.80	41.20	45.20

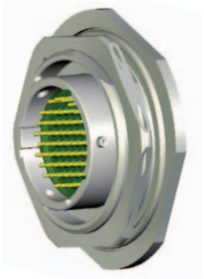
Jam nut receptacle 8T7 type







Panel cut-out



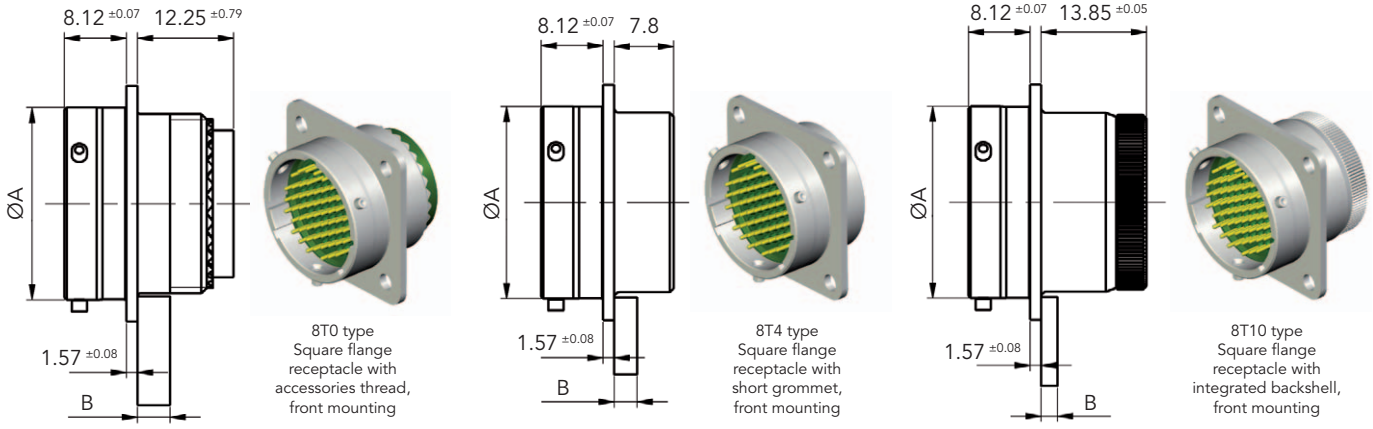
8T7 type
Jam nut receptacle
with accessories thread

Shell size	08	10	12	14	16	18	20	22	24
A ±0.12	11.13	11.13	11.13	11.13	11.13	11.13	11.79	11.79	11.79
B ±0.99	8.36	8.36	8.36	8.36	8.36	8.36	7.70	7.70	7.70
ØC ±0.08	12.01	14.98	19.05	22.22	25.40	28.57	31.75	34.92	38.10
D	27.40	30.61	33.75	36.96	40.10	43.31	46.45	51.23	54.41
E ±0.37	31.85	35.02	38.20	41.37	45.34	48.10	51.30	54.46	57.63
ØF ±0.32	35.05	38.24	41.42	44.59	49.36	51.35	54.50	57.55	60.85
G $^{0}_{-0.25}$	21.08	24.26	27.53	30.68	33.86	37.06	40.03	43.21	46.38
ØH $^{+0.25}_{0}$	22.46	25.58	28.80	31.98	35.15	38.28	41.50	44.68	47.85
Max tightening torque (mN)	9	10	13	20	23	25	26	27	29

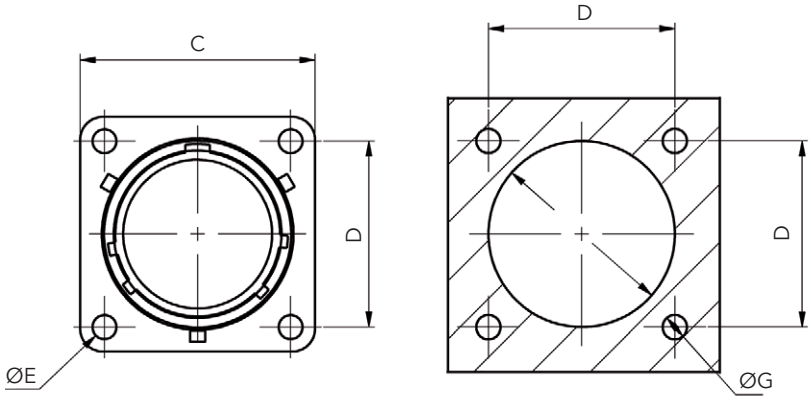
Note: All dimensions are in millimeters (mm)

Dimensions

Square flange receptacle 8T0 type, 8T4 type & 8T10 type



8T0 type 8T4 type 8T10 type



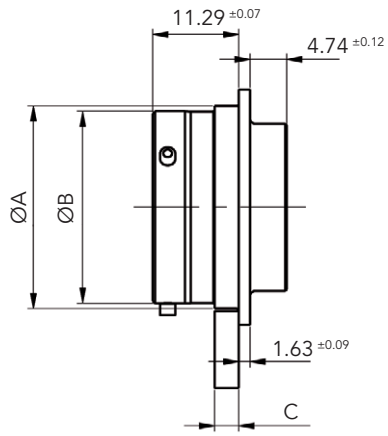
8T0/8T4/8T10 types Panel cut-out

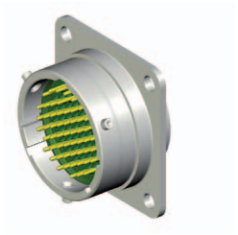
Shell size		08	10	12	14	16	18	20	22	24
ØA ±0.08		12.96	14.93	19.00	22.17	25.35	28.52	31.70	34.87	38.05
B Max.		3.71	3.71	3.71	3.71	3.71	3.71	4.27	4.27	4.27
C	Min.	20.52	23.73	26.11	28.50	30.86	33.22	36.42	39.60	42.77
	Max.	21.03	24.23	26.59	28.98	31.34	33.73	36.91	40.08	43.26
D		15.09	18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93
ØE	Min.	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.71
	Max.	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.99
ØF		14.15	17.32	21.69	24.87	28.04	31.22	34.39	37.57	40.74
ØG ±0.15		3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.91

Note: All dimensions are in millimeters (mm)

Dimensions

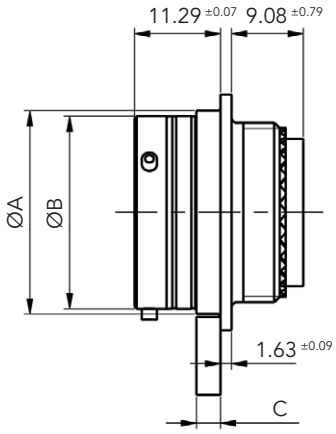
Square flange receptacle 8T2 type & 8T3 type

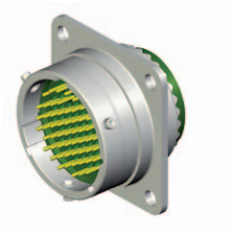




8T2 type
Square flange receptacle with short grommet, rear mounting

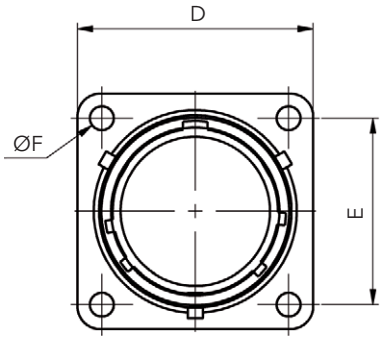
8T2 type



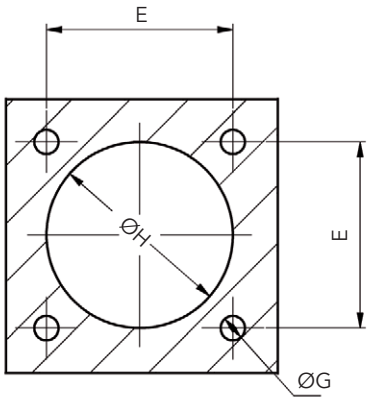


8T3 type
Square flange receptacle with accessories thread, rear mounting

8T3 type



8T2/8T3 types



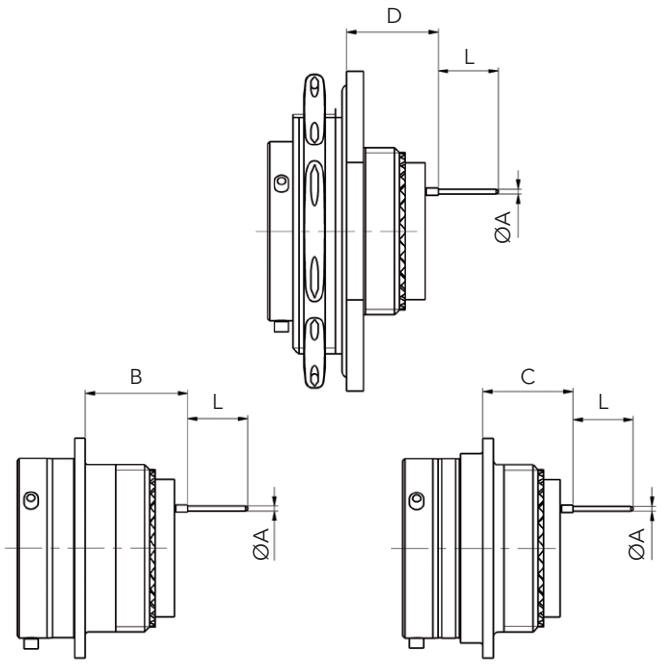
Panel cut-out

Shell size		08	10	12	14	16	18	20	22	24
ØA ±0.08		13.25	16.20	20.49	23.71	26.84	30.01	33.19	36.36	39.56
ØB ±0.09		12.02	14.99	19.06	22.25	25.41	28.58	31.76	34.93	38.11
C Max.		3.71	3.71	3.71	3.71	3.71	3.71	4.27	4.27	4.27
D	Min.	20.57	23.78	26.16	28.55	30.91	33.27	36.47	39.65	42.82
	Max.	21.10	24.31	26.69	29.08	31.71	34.10	37.28	40.45	43.63
E		15.09	18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93
ØF	Min.	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.71
	Max.	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.99
G ±0.15		3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.91
ØH Min.		14.15	17.32	21.69	24.87	28.04	31.22	34.39	37.57	40.74

Note: All dimensions are in millimeters (mm)

Dimensions

Receptacle with straight PC tail contacts

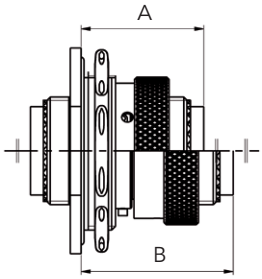


	Contact style			Shell size	
	Size	Type	Length	08 to 18	20 to 24
ℓ -0.20	#22D	M / F	L	8.50	
	#22D	M / F	C	4.00	
	#20 / #16 / #12	M / F	C	5.10	
ØA -0.05	#22D / 20	M / F	C / L	0.70	
	#16	M / F	C / L	1.15	
	#12	M / F	C / L	2.05	
B 8T0/8T10 types	#22D	M	C / L	15.05	
	#22D	F	L	15.05	
	#20 / #16	M	C	15.22	
	#12	M	C	15.22	
C 8T3 type	#22D	M	C / L	13.40	
	#22D	F	L	13.40	
	#20 / #16	M	C	13.57	
	#12	M	C	13.57	
D 8T7 type	#22D	M	C / L	13.61	12.95
	#22D	F	L	13.61	12.95
	#20 / #16	M	C	13.78	13.12
	#12	M	C	13.78	

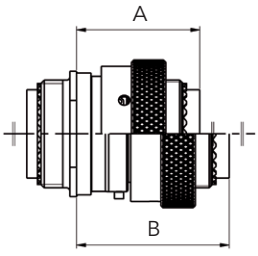
M: Male contact, **F:** Female contact, **C:** Short PC tail, **L:** Long PC tail

Mated/unmated dimensions

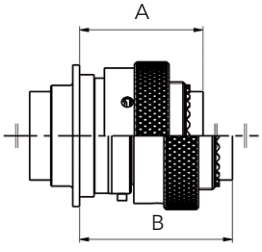
8T7 type with 8T5/8T15/8T6/8T16 types



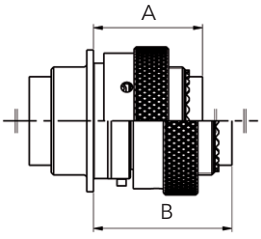
8T1 type with 8T5/8T15/8T6/8T16 types



8T2/8T3 types with 8T5/8T15/8T6/8T16 types



8T0/8T4/8T10 types with 8T5/8T15/8T6/8T16 types



Shell size	8T7 type jam nut receptacle								8T1 type in-line receptacle 8T2/8T3 types square flange receptacle								8T0/8T4/8T10 types square flange receptacle							
	With plug 8T5		With plug 8T6		With plug 8T15		With plug 8T16		With plug 8T5		With plug 8T6		With plug 8T15		With plug 8T16		With plug 8T5		With plug 8T6		With plug 8T15		With plug 8T16	
	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.	A Max.	B Max.
08 to **18**	27.68	33.86	27.74	33.92	28.65	34.83	28.71	34.89	27.77	33.95	27.83	34.01	28.74	34.92	28.80	34.98	24.60	30.78	24.66	30.64	25.57	31.75	25.63	31.81
20 to **24**	28.34	34.52	28.40	34.58	29.31	35.49	29.37	35.55																

Note: All dimensions are in millimeters (mm)

Aluminum backshells

Ordering information

Basic Series	8T	AB	05	A	16	W	S	01	-

Accessories type

Type:
- **01:** Backnut
- **02:** Cable clamp
- **03:** Shrink boot
- **04:** Crimp ring
- **05:** Band lock
- **06:** Double cone

Angle:
- **A:** Straight
- **B:** 90° (Type 02 only)

Shell size:
- **08, 10, 12, 14, 16, 18, 20, 22, 24**

Finish:
- **Z:** Black zinc nickel
- **W:** Olive green cadmium
- **F:** Nickel
- **A:** Black anodized

Self locking option:
- **None**
- **S:** Self locking (available for Types 01 & 02 - mandatory for Type 05)

Cable entry (Type 05 only):
- **01, 02** (02 mandatory for shell size 08 & 10)

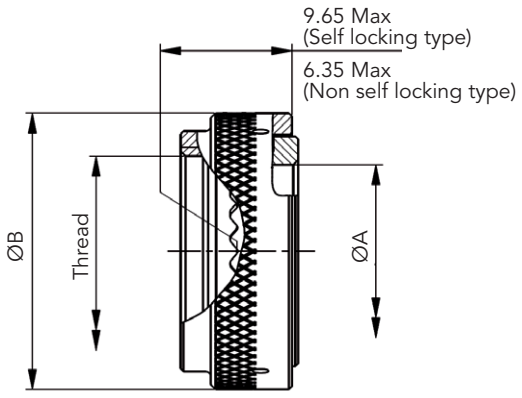
Drain hole option:
- **None**
- **D:** Drain hole (Type 03 only)

Assembly instructions

Please see "Common Section" p.34 for assembly instructions and Band-it.

Dimensions

Aluminum backshell Type 01 - Backnut



Shell size	ØA Min	ØB Max
08	6.7	17.9
10	9.95	20.9
12	12.85	24.3
14	17.0	27.9
16	19.25	31.3
18	21.7	35.3
20	24.7	38.1
22	27.8	41.5
24	32.0	44.5

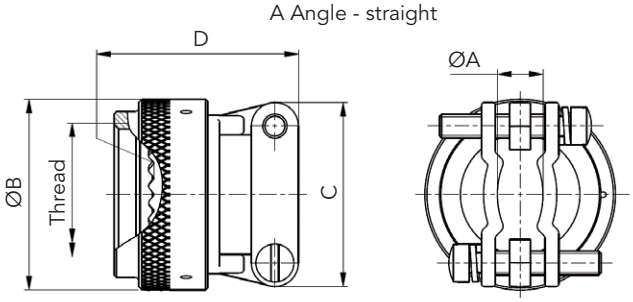
Thread: See page 27 for information.

Note: All dimensions are in millimeters (mm)

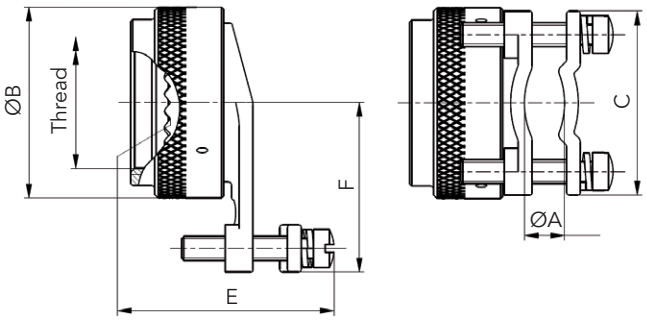
Aluminum backshells

Aluminum backshell Type 02 - Cable clamp

A Angle - straight



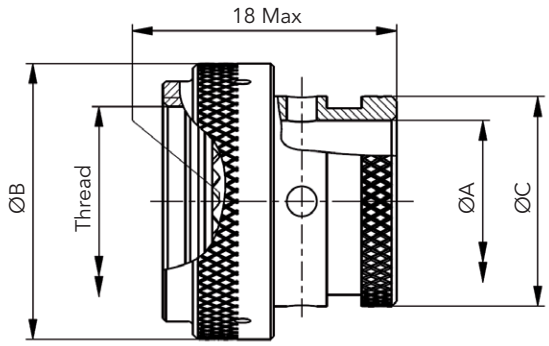
B Angle - 90°



Shell size	ØA		ØB Max	C Max	D Max	E Max	F Max
	Min	Max					
08	2.49	5.94	17.9	21.5	23.1	29.5	20
10	3.89	5.94	20.9	21.5	23.1	29.5	21.5
12	4.83	8.33	24.3	24.5	25.6	31.5	23.5
14	6.60	11.61	27.9	27.5	26.9	35.8	25.5
16	7.19	15.6	31.3	31.5	29.4	40.1	27.5
18	8.26	16.1	35.3	35.5	35.8	40.6	30.5
20	8.71	17.73	38.1	37	38.3	42.7	31.5
22	9.68	20.9	41.5	40.5	42.1	46.2	34.5
24	10.62	21.67	44.5	45	44.7	49	36.5

Thread: See page 27 for information.

Aluminum backshell Type 03 - Shrink boot



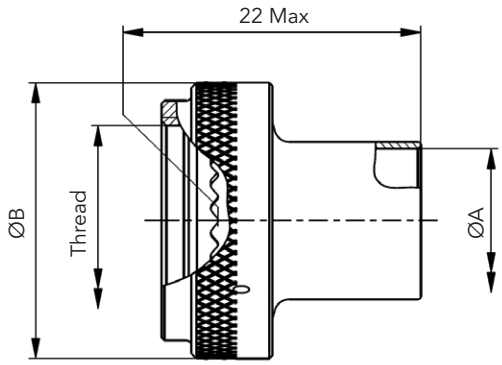
Shell size	ØA Min	ØB Max	C Max
08	6.7	19.0	11.3
10	9.95	21.5	14.9
12	12.85	25.3	17.8
14	16.05	29.1	21.27
16	19.2	31.7	24.3
18	21.5	35.5	26.4
20	24.7	39.3	30.8
22	27.8	41.8	34.1
24	31	46.9	36.6

Thread: See page 27 for information.

Note: All dimensions are in millimeters (mm)

Aluminum backshells

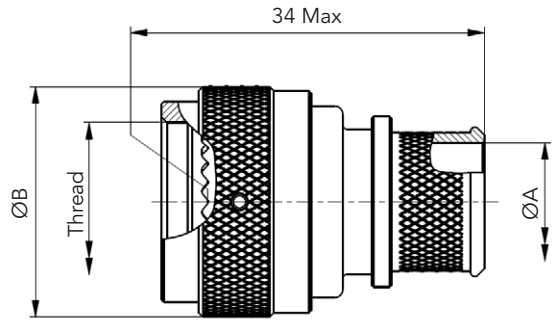
Aluminum backshell Type 04 - Crimp ring



Shell size	ØA Min	ØB Max
08	6	17.9
10	8.2	20.9
12	10.5	24.3
14	13.6	27.9
16	16.9	31.3
18	20	34.3
20	23.2	38.1
22	26.1	41.5
24	28.1	44.4

Thread: See page 27 for information.

Aluminum backshell Type 05 - Band lock

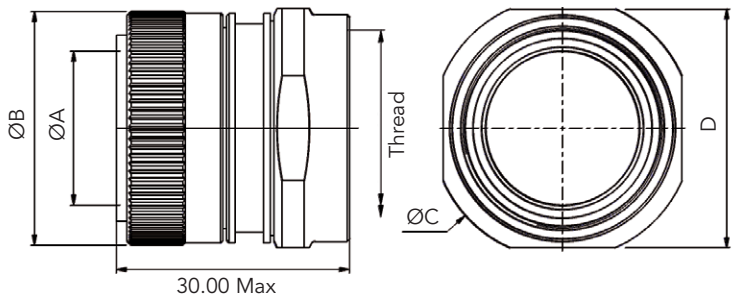


Shell size	ØA Max - Entry size		ØB Max
	01	02	
08	-	6.6	17.9
10	-	8	24.9
12	8	11.2	29.3
14	11.2	14.4	32.4
16	12.8	16	35.6
18	16	19.1	38.4
20	16	20.7	41.6
22	17.6	23.9	44.8
24	19.1	25.5	47.9

Thread: See page 27 for information.

Aluminum backshell Type 06 - Double cone

HE 308 standard - Screen termination and heat shrink boot



Shell size	ØA$^{\pm 0.07}$	ØB$^{\pm 0.12}$	ØC$^{\pm 0.12}$	D$^{\pm 0.07}$
08	7.1	15.55	19.35	16.7
10	10.25	18.45	23.35	20.7
12	13.05	21.85	25.35	22.7
14	15.25	25.05	28.35	25.7
16	18.45	28.05	31.35	28.7
18	20.65	31.05	34.35	31.7
20	23.85	34.45	38.35	35.7
22	26.95	37.45	41.35	38.7
24	30.15	40.75	44.35	41.7

Thread: See page 27 for information.

Note: All dimensions are in millimeters (mm)

Aluminum backshells

Recommended installation torque

Shell Size	Installation Torque (Inch-Pounds)
08 to 18	40
20 to 24	80

Note: Torque values are based on 80% of the coupling thread strength specified in SAE-AS85049 standard.

Thread information

Shell size	UNEF Thread
08	7/16-28 2B
10	9/16-24 2B
12	11/16-24 2B
14	13/16-20 2B
16	15/16-20 2B

Shell size	UNEF Thread
18	1 1/16 -18 2B
20	1 3/16 -18 2B
22	1 5/16 -18 2B
24	1 7/16 -18 2B

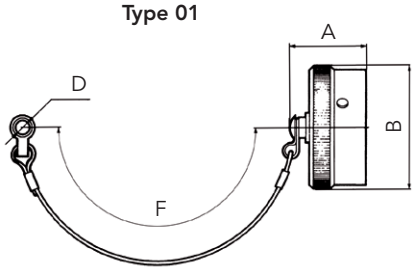
Aluminum protective caps

Ordering information

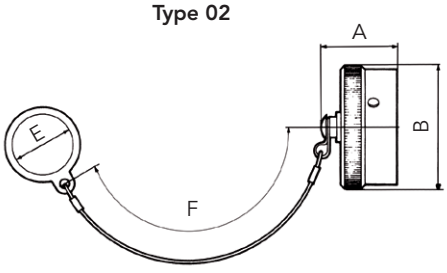
Basic Series	**8T**	**E**	**01**	**B**	**14**
Cap type: **E:** Cap for receptacle **F:** Cap for plug					
Fixing type: **Cap for receptacle** **01:** Plastic sleeved metal cord with eyelet **02:** Plastic sleeved metal cord with ring **Cap for plug** **01:** Plastic sleeved metal cord with eyelet					
Plating: **B:** Olive green cadmium **F:** Nickel					
Shell size: 08, 10, 12, 14, 16, 18, 20, 22, 24					

Dimensions

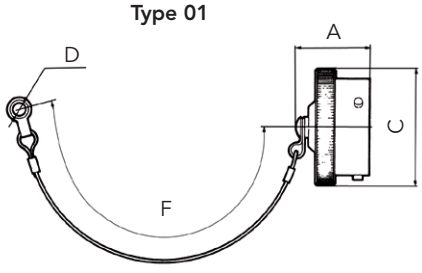
Cap for receptacle Type 01



Cap for receptacle Type 02



Cap for plug Type 01



Shell size	08	10	12	14	16	18	20	22	24
Ø A Max.	20.83	20.83	20.83	20.83	20.83	20.83	20.83	20.83	20.83
B Max.	19.05	21.82	26.19	29.36	32.54	35.71	38.89	41.68	44.86
Ø C Max.	18.29	21.59	25.40	28.70	31.75	35.05	38.10	41.40	44.45
Ø D	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.53
Ø E	22.61	25.65	28.96	32.00	35.31	38.35	41.66	44.70	48.01
F	76.20	76.20	88.90	88.90	88.90	88.90	101.60	101.60	101.60

Note: All dimensions are in millimeters (mm)

8T SERIES

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8T Series

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  - Filler plugs 30
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  - Backshell tightening tools 31
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Contacts

Crimp contacts

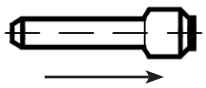
Contact size	Contact type	Ø	Conductor section AWG Min	Conductor section AWG Max	Conductor section mm² Min	Conductor section mm² Max	External Ø over insulator Min	External Ø over insulator Max	SOURIAU Part number without color code	MIL-DTL-38999 contacts Part number	MIL-DTL-38999 contacts Color code
#22D	Pin	0.76	26	22	0.12	0.38	0.71	1.37	85990702JJ	M39029/58-360	Black/Blue/Orange
	Socket								85990710900	M39029/57-354	Yellow/Green/Orange
#20	Pin	1.00	24	20	0.21	0.60	1.02	2.11	85990703SA	M39029/58-363	Orange/Blue/Orange
	Socket								85990711900	M39029/57-357	Purple/Green/Orange
#16	Pin	1.60	20	16	0.60	1.34	1.65	2.77	85990704MJ	M39029/58-364	Yellow/Blue/Orange
	Socket								85990712900	M39029/57-358	Grey/Green/Orange
#12	Pin	2.40	14	12	1.91	3.18	2.46	3.61	85990705MJ	M39029/58-365	Green/Blue/Orange
	Socket								85990713900	M39029/57-359	White/Green/Orange

Straight PC tail contacts

Contact size	Contact type	Contact length	Part number
#22D	Pin	L: Long PC tail	85990720900
		C: Short PC tail	85990730900
#20	Pin	L: Long PC tail	85990771900
		C: Short PC tail	85990724900
#16	Pin	L: Long PC tail	85997496A900
		C: Short PC tail	85990726900
#12	Pin	C: Short PC tail	85997711900

Filler plugs

Contact size	MS Part number (Rev. N)	Color	SOURIAU Part number	Color
#22D	MS27488-22-2	Black	8660-212	Black
#20	MS27488-20-2	Red	8522-389A	Red
#16	MS27488-16-2	Green	8522-390A	Blue
#12	MS27488-12-2	Orange	8522-391A	Orange



Direction of introduction in grommet

These filler plugs are installed at the rear of unwired contact to maintain connector sealing.

Tooling

Insertion and extraction tools

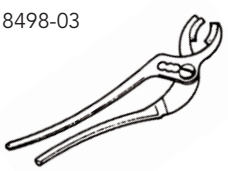
Contact size	Material	Part number MIL standard	Color	
			Insertion	Extraction
#22D	Plastic	M81969/14-01	Green	White
#20	Plastic	M81969/14-10	Red	Orange
#16	Plastic	M81969/14-03	Blue	White
#12	Plastic	M81969/14-04	Yellow	White

Crimping tools

Contact size	Contact type	Wire sizes		Plier M22520/1-01	Plier M22520/2-01 (SOURIAU 8476-01)
		mm²	AWG	Turret Part number	Locator Part number
#22D	Pin	0.38 0.21 0.15 0.095	22 24 26 28	-	M22520/2-09
	Socket				M22520/2-06
#20	Pin	0.60 0.38 0.21	20 22 24	M22520/1-04	M22520/2-10
	Socket				
#16	Pin	1.34 0.93 0.60	16 18 20	M22520/1-04	-
	Socket				
#12	Pin	3.18 1.91	14 12	M22520/1-04	-
	Socket				

Backshell tightening tools

8498-03



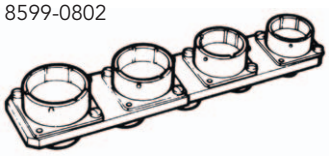
Backshell tightening pliers,
part number: 8498-03
Square jaws (order 2 jaws),
part number: 8500-1015

Tightening of rear accessories:

Shell size	8	10	12	14	16	18	20	22	24
Max torque in m/daN	0.62						1.24		

Tightening support

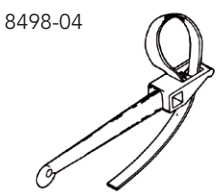
8599-0802



Part number: 8599-0802
This tool is made up of dummy receptacles housings of all 9 sizes for all key polarisation, and secures free connectors during wiring and fitting of rear accessories.

Slackening tools

8498-04

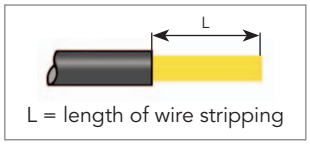


Strap clamp,
part number: 8498-04
Spare strap,
part number: 8498-103

Wiring instruction

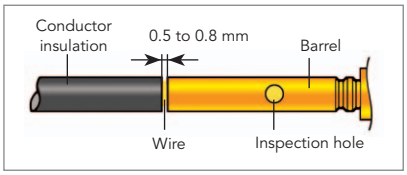
Cable preparation and wire stripping

Contact size	#22D	#20	#16	#12
L	4	6		



L = length of wire stripping

Insertion of wire in contact barrel

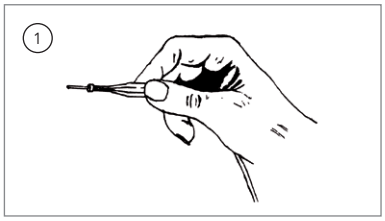


When inserting the stripped wire into the contact barrel check that no strands are left outside and that the wire is visible through the wire inspection hole in the barrel.

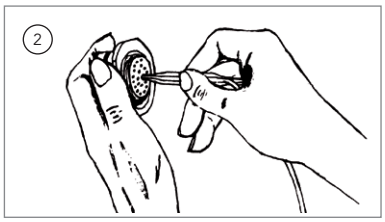
Important:
- Slide any accessories over wire strands before carrying out the following operations.
- Contacts are inserted and extracted from the rear of the connector.

Insertion of the contacts

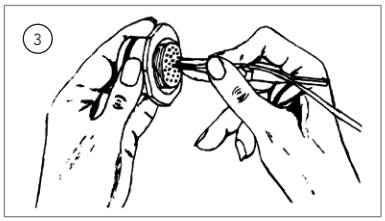
1 - Engage the crimp cable / contact asembly into the longitudinal slot of the plastic tool (coloured tip).
Slide the tool down the cable until the tip of the tool abuts the contact retention shoulder.



2 - Introduce the contact into the required contact cavity in the insulator, pushing tool axialy, until the contact snaps into position in clip.

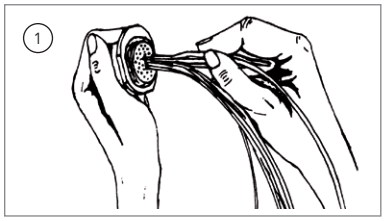


3 - Withdraw the tool from rear. Check that contact is firmly locked by pulling wire gently. When connector is fully loaded, check the position of contact tips. They should all be in the same plane.
Nota: For larger sizes of cable which are stiff enough manual insertion without tool is preferable.

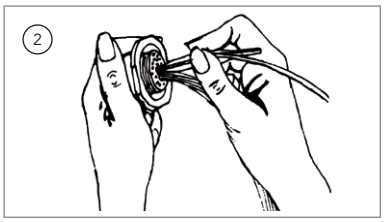


Extraction of the contacts

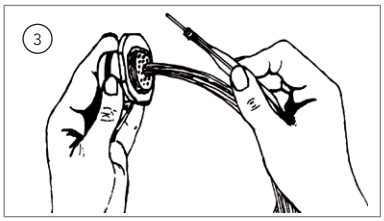
1 - Engage the appropriate cable into the longitudinal slot of the tool with the white tip towards connector.



2 - Slide the tool down towards the contact. Insert the tool in the insulator until it abuts the contact shoulder.



3 - Holding the tool-contact and cable assembly together, remove them simultaneously.



Gaskets

Shell size	Part Numbers	
	For receptacle Type 0	For receptacle Type 7
08	8525 1431	AS3582-022
10	8525 1432	AS3582-024
12	8525 1433	AS3582-026
14	8525 1434	AS3582-028
16	8525 1435	AS3582-029

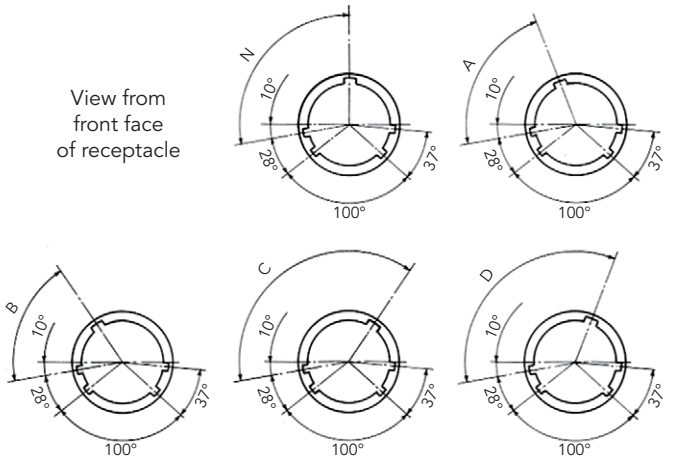
Shell size	Part Numbers	
	For receptacle Type 0	For receptacle Type 7
18	8525 1436	AS3582-030
20	8525 1437	AS3582-031
22	8525 1438	AS3582-032
24	8525 1439	AS3582-033

Orientations

Polarization is determined by the master keyway position.
The secondary keyway positions remain fixed.

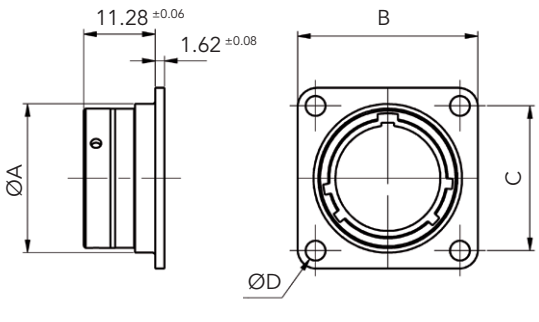
Shell size	Angles (degrees)				
	N	A	B	C	D
08	100	82	-	-	118
10	100	86	72	128	114
12	100	80	68	132	120
14	100	79	66	134	121
16	100	82	70	130	118
18	100	82	70	130	118
20	100	82	70	130	118
22	100	85	74	126	115
24	100	85	74	126	115

View from front face of receptacle



Dummy receptacles

Shell size	A	B		C	D		Part Numbers	
		Min.	Max.		Min.	Max.	Olive green cadmium plating	Nickel plating
08	13.24	20.57	21.10	15.09	3.08	3.30	8T3-08GUR	8T3-08FUR
10	16.19	23.78	24.31	18.26	3.08	3.30	8T3-10GUR	8T3-10FUR
12	20.48	26.16	26.69	20.62	3.08	3.30	8T3-12GUR	8T3-12FUR
14	23.70	28.55	29.08	23.01	3.08	3.30	8T3-14GUR	8T3-14FUR
16	26.84	30.91	31.71	24.61	3.08	3.30	8T3-16GUR	8T3-16FUR
18	30.00	33.27	34.10	26.97	3.08	3.30	8T3-18GUR	8T3-18FUR
20	33.18	36.47	37.28	29.36	3.08	3.30	8T3-20GUR	8T3-20FUR
22	36.35	39.65	40.45	31.75	3.08	3.30	8T3-22GUR	8T3-22FUR
24	39.55	42.82	43.63	34.93	3.71	3.99	8T3-24GUR	8T3-24FUR



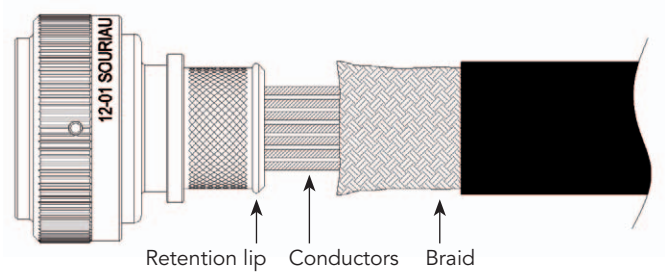
Note: All dimensions are in millimeters (mm)

Backshells assembly

Band lock Type 05

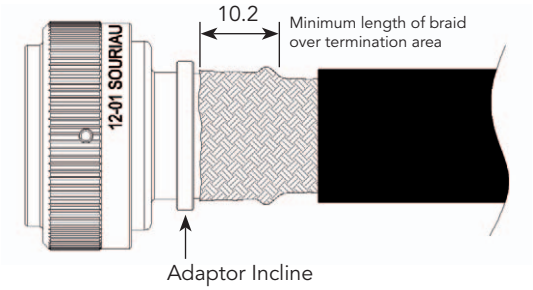
Step 1: Prepare cable braid

Terminate wires to connector and screw the backshell to connector. Prepare the cable for termination process.
WARNING ! Banding must occur on an un-fixtured cable assembly. Attaching a band to a firmly clamped cable will affect the applied forces and will also interfere with the cut-off operation. The cut-off operation causes a rotation of the band termination in order to lock the band.



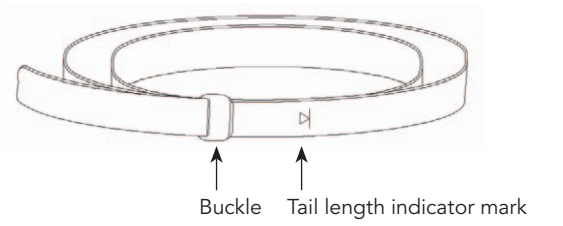
Step 2: Push braid over adaptor

Push the braid over the retention lip to the adaptor incline point or ensuring 10.2mm [0.4"] minimum braid length over termination area. Milk the braid as required to remove the slack and insure a snug fit around the shield termination area.



Step 3: Prepare band

Roll the band through the buckle slot twice. Pull on the band until the tail length indicator mark is within approximately 6.4 mm (0.250 in) of the buckle slot. The band may be tightened further if desired.
WARNING ! Always roll band through the buckle slot twice in order to ensure correct functioning.



Step 4: Install band

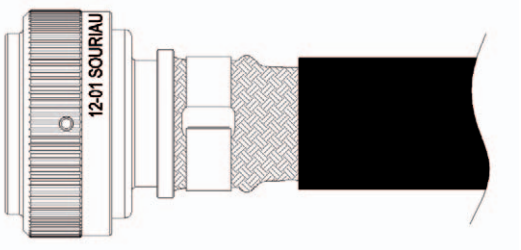
a) Squeeze the gripper release lever of the banding tool and insert the band into the front end opening of the tool as shown on picture.
WARNING ! The circular portion of looped band must always face downward.

b) Aligning the band and the tool with the shield termination area, squeeze the black pull-up handle repeatedly using short strokes until it locks against the tool body (this indicates that the band is compressed to the tool pre-calibrated tension).
IMPORTANT ! Operator technique can affect the integrity of the band installation. The operator should use **abbreviated** or **partial** strokes of the pull-up handle as the band is pulling up against the braid. As the band becomes completely tight, apply a full strokes of the pull-up handle to ensure that the full calibrated force of the tool is applied as the handle locks into position.

c) Complete the clamping process by squeezing the gray cut-off handle, allowing the cable to rotate slightly during cut-off.

Step 5: Inspect the shield termination

Remove the excess band from the tool. Inspect shield termination. Install the heat shrinkable boot, if required.
WARNING ! Tools and Bands should never be lubricated.

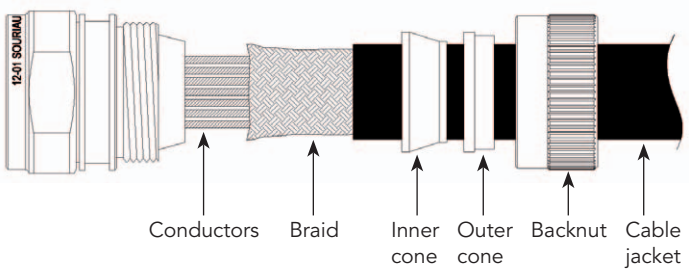


Note: All dimensions are in millimeters (mm)

Double cone Type 06

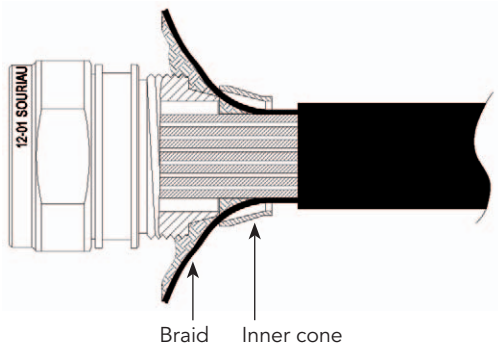
Step 1: Prepare cable braid

Prepare the cable for termination process and slide the backshell parts onto the cable the items in the order shown in above figure. Screw the backshell at the rear of the connector.



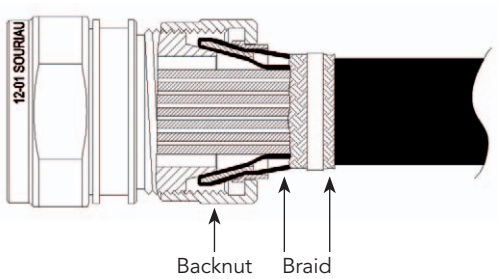
Step 2: Push braid over adaptor

Release the braid and slide the inner cone over the braid.



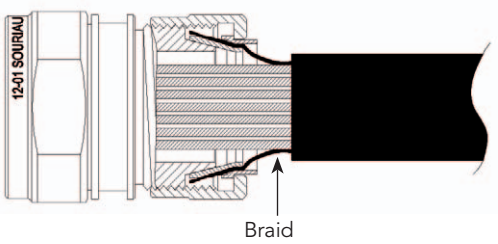
Step 3-a: Double folding

Fold back the braid on the inner cone and fix it with an adhesive tape on to the jacket of the cable. Slide the outer cone over the braid and the inner cone. Screw the backnut at the rear of the backshell and tighten it. Install heat shrinkable boot.
Please refer to Step 3-b for alternate method (Single folding).



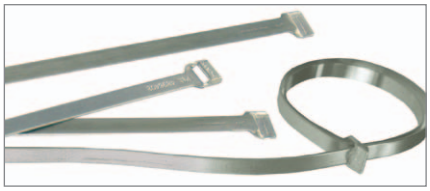
Step 3-b: Single folding

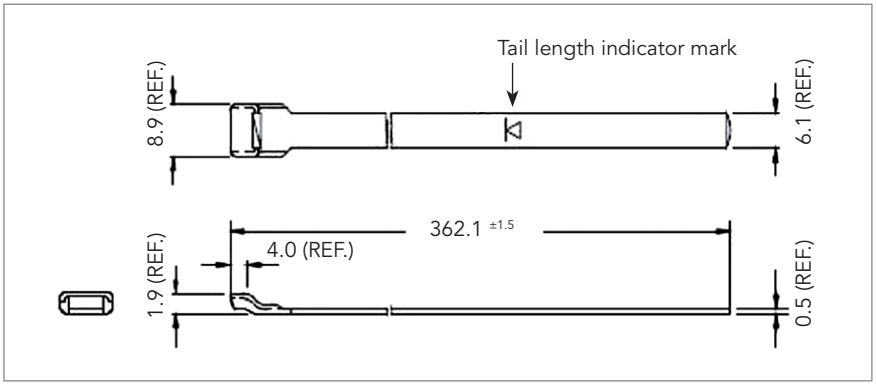
Cut the braid as shown. Slide the outer cone over the braid and the inner cone. Screw the backnut at the rear of the backshell and tighten it. Install heat-shrinkable boot.



Band-it

Designation	Flat stainless steel standard band	Pre-coiled stainless steel standard band	Hand banding tool
Part number	8599-9344	8599-9345	8599-9346





Note: All dimensions are in millimeters (mm)

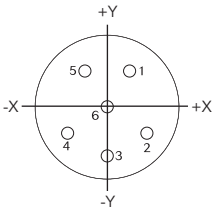
Coordinates for straight PC tail terminations

Viewed from front face of male insulator

Hole sizes: 1mm min. (#22 and #20 contacts) and 1.3mm min. (#16 contact) coordinates in mm.

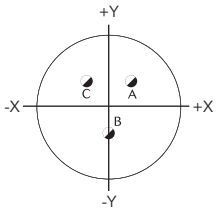
08

35



Ctc	X	Y
1	+1.14	+1.98
2	+1.98	-1.14
3	0.00	-2.29
4	-1.98	-1.14
5	-1.14	+1.98
6	0.00	0.00

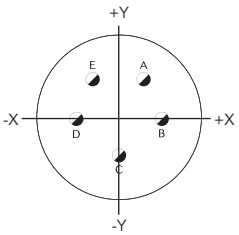
98



Ctc	X	Y
A	+1.65	+0.97
B	0.00	-1.90
C	-1.65	+0.97

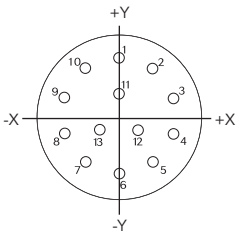
10

05



Ctc	X	Y
A	+1.65	+1.42
B	+2.86	-1.65
C	0.00	-3.30
D	-2.86	-1.65
E	-1.65	+1.42

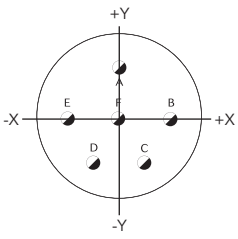
35



Ctc	X	Y
1	0.00	+3.71
2	+2.16	+3.00
3	+3.51	+1.14
4	+3.51	-1.14
5	+2.16	-3.00
6	0.00	-3.71
7	-2.16	-3.00

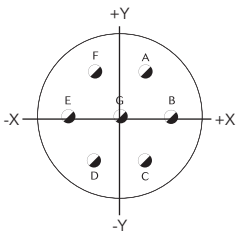
Ctc	X	Y
8	-3.51	-1.14
9	-3.51	+1.14
10	-2.16	+3.00
11	0	+1.42
12	+1.24	-0.89
13	-1.24	-0.89

98



Ctc	X	Y
A	0.00	+3.30
B	+3.30	0.00
C	+1.65	-2.87
D	-1.65	-2.87
E	-3.30	0.00
F	0.00	0.00

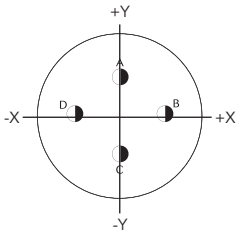
99



Ctc	X	Y
A	+1.65	+2.85
B	+3.30	0.00
C	+1.65	-2.87
D	-1.65	-2.87
E	-3.30	0.00
F	-1.65	+2.87
G	0.00	0.00

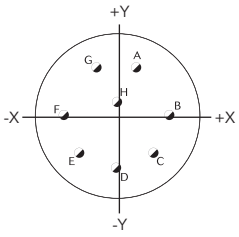
12

04



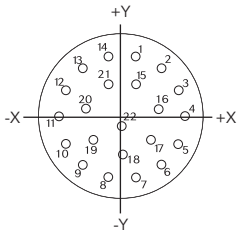
Ctc	X	Y
A	0.00	+3.81
B	+3.71	+0.89
C	0.00	-2.11
D	-3.71	+0.89

08



Ctc	X	Y
A	+1.65	+3.99
B	+4.32	0.00
C	+3.05	-3.05
D	0.00	-4.32
E	-3.05	-3.05
F	-4.32	0.00
G	-1.65	+3.99
H	0.00	+1.12

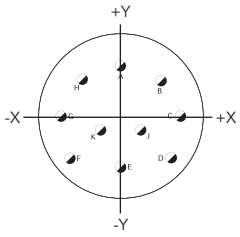
35



Ctc	X	Y
1	+1.14	+5.00
2	+3.20	+4.01
3	+4.62	+2.24
4	+5.16	0.00
5	+4.62	-2.24
6	+3.20	-4.01
7	+1.14	-5.00
8	-1.14	-5.00
9	-3.20	-4.01
10	-4.62	-2.24
11	-5.16	0.00

Ctc	X	Y
12	-4.62	+2.24
13	-3.20	+4.01
14	-1.14	+5.00
15	+1.14	+2.72
16	+2.97	+0.66
17	+2.36	-1.91
18	0.00	-3.05
19	-2.36	-1.91
20	-2.97	+0.66
21	-1.24	+2.72
22	0.00	-0.76

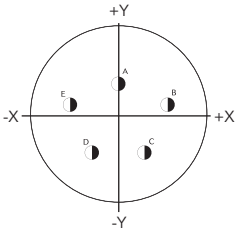
98



Ctc	X	Y
A	0.00	+4.95
B	+3.18	+3.81
C	+4.90	+0.76
D	+4.17	-2.67
E	0.00	-3.43
F	-4.17	-2.67
G	-4.90	+0.76
H	-3.18	+3.81
J	+1.65	-0.38
K	-1.65	-0.38

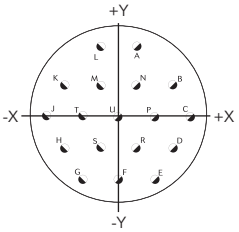
14

05



Ctc	X	Y
A	0	+2.54
B	+4.42	+0.61
C	+2.39	+3.76
D	-2.39	-3.76
E	-4.42	+0.61

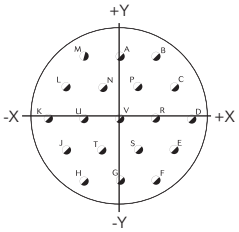
18



Ctc	X	Y
A	+1.65	+6.40
B	+4.95	+2.87
C	+6.60	0.00
D	+4.95	-2.87
E	+3.30	-5.72
F	0.00	-5.72
G	-3.30	-5.72
H	-4.95	-2.87
J	-6.60	0.00

Ctc	X	Y
K	-4.95	+2.87
L	-1.65	+6.40
M	-1.65	+2.87
N	+1.65	+2.87
P	+3.30	0.00
R	+1.65	-2.87
S	-1.65	-2.87
T	-3.30	0.00
U	0.00	0.00

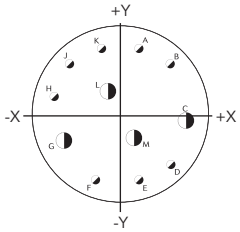
19



Ctc	X	Y
A	0.00	+5.72
B	+3.30	+5.72
C	+4.95	+2.87
D	+6.60	0.00
E	+4.95	-2.87
F	+3.30	-5.72
G	0.00	-5.72
H	-3.30	-5.72
J	-4.95	-2.87
K	-6.60	0.00

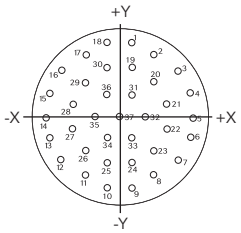
Ctc	X	Y
L	-4.95	+2.87
M	-3.30	+5.72
N	-1.65	+2.87
P	+1.65	+2.87
R	+3.30	0.00
S	+1.65	-2.87
T	-1.65	-2.87
U	-3.30	0.00
V	0.00	0.00

97



Ctc	X	Y
A	+1.65	+5.94
B	+4.52	+4.52
C	+5.84	-0.58
D	+4.52	-4.52
E	+1.65	-5.94
F	-2.26	-5.97
G	-5.26	-2.41
H	-5.94	+1.65
J	-4.52	+4.52
K	-1.65	+5.94
L	-1.19	+2.06
M	+1.19	-2.06

35



Ctc	X	Y
1	+1.14	+6.65
2	+3.12	+5.51
3	+5.36	+4.06
4	+6.45	+2.03
5	+6.76	-0.25
6	+6.27	-2.49
7	+5.08	-4.45
8	+3.30	-5.89

Ctc	X	Y
9	+1.14	-6.65
10	-1.14	-6.65
11	-3.30	-5.89
12	-5.08	-4.45
13	-6.27	-2.49
14	-6.76	-0.25
15	-6.45	+2.03
16	-5.36	+4.06

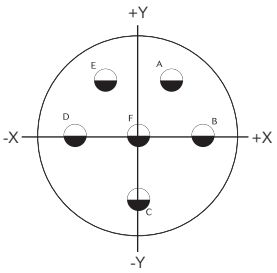
Ctc	X	Y
17	-3.12	+5.51
18	-1.14	+6.65
19	+1.14	+4.37
20	+3.12	+3.02
21	+4.32	+1.02
22	+4.32	-1.27
23	+3.12	-3.23

Ctc	X	Y
24	+1.14	-4.37
25	-1.14	-4.37
26	-3.12	-3.23
27	-4.32	-1.27
28	-4.32	+1.02
29	-3.12	+3.02
30	-1.14	+4.37

Ctc	X	Y
31	+1.14	+1.88
32	+2.29	-0.10
33	+1.14	-2.08
34	-1.14	-2.08
35	-2.29	-0.10
36	-1.14	+1.88
37	0.00	-0.10

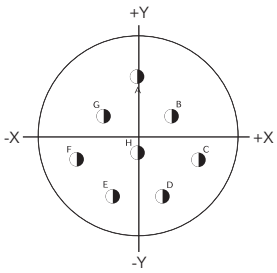
16

06



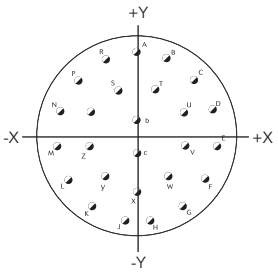
Ctc	X	Y
A	+3.07	+5.31
B	+6.12	0.00
C	0.00	-6.12
D	-6.12	0.00
E	-3.07	+5.31
F	0.00	0.00

08



Ctc	X	Y
A	0.00	+5.99
B	+3.25	+2.18
C	+5.84	-1.98
D	+2.39	-5.49
E	-2.39	-5.49
F	-5.84	-1.98
G	-3.25	+2.18
H	0.00	-1.32

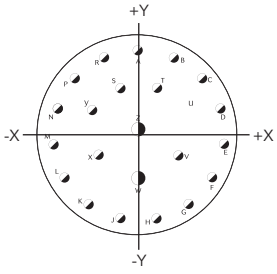
26



Ctc	X	Y
A	0.00	+8.15
B	+3.33	+7.44
C	+6.07	+5.44
D	+7.75	+2.51
E	+8.10	-0.86
F	+7.06	-4.09
G	+4.80	-6.60
H	+1.70	-7.98
J	-1.70	-7.98
K	-4.80	-6.60
L	-7.06	-4.09
M	-8.10	-0.86
N	-7.75	+2.51

Ctc	X	Y
P	-6.07	+5.44
R	-3.33	+7.44
S	-1.78	+4.50
T	+1.78	+4.50
U	+4.45	+2.39
V	+4.53	-0.91
W	+3.02	-3.84
X	0.00	-5.16
Y	-3.02	-3.84
Z	-4.53	-0.91
a	-4.45	+2.39
b	0.00	+1.65
c	0.00	-1.65

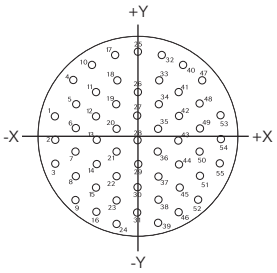
99



Ctc	X	Y
A	0.00	+8.15
B	+3.33	+7.44
C	+6.07	+5.44
D	+7.75	+2.51
E	+8.10	-0.86
F	+7.06	-4.09
G	+4.80	-6.60
H	+1.70	-7.98
J	-1.70	-7.98
K	-4.80	-6.60
L	-7.06	-4.09
M	-8.10	-0.86

Ctc	X	Y
N	-7.75	+2.51
P	-6.07	+5.44
R	-3.33	+7.44
S	-1.78	+4.50
T	+1.78	+4.50
U	+4.45	+2.39
V	+3.81	-1.91
W	0.00	-4.09
X	-3.81	-1.91
Y	-4.45	+2.39
Z	0.00	+0.64

35



Ctc	X	Y
1	-7.92	+2.18
2	-7.92	-0.10
3	-7.92	-2.39
4	-6.15	+5.61
5	-5.94	+3.33
6	-5.94	+1.04
7	-5.94	-1.24
8	-5.94	-3.53
9	-5.94	-5.82
10	-4.37	+7.09
11	-3.96	+4.47

Ctc	X	Y
12	-3.96	+2.18
13	-3.96	-0.10
14	-3.96	-2.39
15	-3.96	-4.67
16	-3.96	-6.96
17	-2.26	+8.03
18	-1.98	+5.61
19	-1.98	+3.33
20	-1.98	+1.04
21	-1.98	-1.24
22	-1.98	-3.53

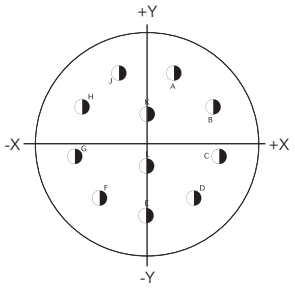
Ctc	X	Y
23	-1.98	-5.82
24	-1.98	-8.10
25	0.00	+8.36
26	0.00	+4.47
27	0.00	+2.18
28	0.00	-0.10
29	0.00	-2.39
30	0.00	+4.67
31	0.00	-6.96
32	+2.26	+8.03
33	+1.98	+5.61

Ctc	X	Y
34	+1.98	+3.33
35	+1.98	+1.04
36	+1.98	-1.24
37	+1.98	-3.53
38	+1.98	-5.82
39	+1.98	-8.10
40	+4.37	+7.09
41	+3.96	+4.47
42	+3.96	+2.18
43	+3.96	-0.10
44	+3.96	-2.39

Ctc	X	Y
45	+3.96	-4.67
46	+3.96	-6.96
47	+6.15	+5.61
48	+5.94	+3.33
49	+5.94	+1.04
50	+5.94	-1.24
51	+5.94	-3.53
52	+5.94	-5.82
53	+7.92	+2.18
54	+7.92	-0.10
55	+7.92	2-.39

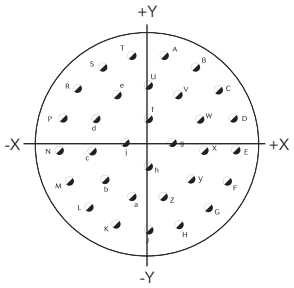
18

11



Ctc	X	Y
A	+2.67	+6.60
B	+6.35	+3.35
C	+6.99	-1.35
D	+4.55	-5.46
E	0.00	-7.14
F	-4.55	-5.46
G	-6.99	-1.35
H	-6.35	+3.35
J	-2.67	+6.60
K	0.00	+2.67
L	0.00	-2.34

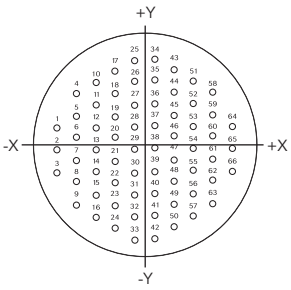
32



Ctc	X	Y
A	+1.68	+8.97
B	+4.80	+7.75
C	+7.26	+5.51
D	+8.76	+2.49
E	+9.07	-0.84
F	+8.15	-4.06
G	+6.15	-6.73
H	+3.30	-8.51
J	0.00	-9.12
K	-3.30	-8.51
L	-6.15	-6.73
M	-8.15	-4.06
N	-9.07	-0.84
P	-8.76	+2.49
R	-7.26	+5.51
S	-4.80	+7.75

Ctc	X	Y
T	-1.68	+8.97
U	0.00	+5.84
V	+3.15	+4.90
W	+5.31	+2.41
X	+5.79	-0.84
Y	+4.42	-3.84
Z	+1.65	-5.61
a	-1.65	-5.61
b	-4.42	-3.84
c	-5.79	-0.84
d	-5.31	+2.41
e	-3.15	+4.90
f	0.00	+2.44
g	+2.44	0.00
h	0.00	-2.44
j	-2.44	0.00

35



Ctc	X	Y
1	-9.07	+2.29
2	-9.07	0.00
3	-9.07	-2.29
4	-7.09	+5.71
5	-7.09	+3.43
6	-7.09	+1.14
7	-7.09	-1.14
8	-7.09	-3.43
9	-7.09	-5.71
10	-5.11	+6.86
11	-5.11	+4.57
12	-5.11	+2.29
13	-5.11	0.00
14	-5.11	-2.29

Ctc	X	Y
15	-5.11	-4.57
16	-5.11	-6.86
17	-3.12	+8.00
18	-3.12	+5.71
19	-3.12	+3.43
20	-3.12	+1.14
21	-3.12	-1.14
22	-3.12	-3.43
23	-3.12	-5.71
24	-3.12	-8.00
25	-1.14	+9.14
26	-1.14	+6.86
27	-1.14	+4.57

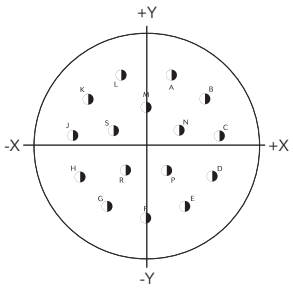
Ctc	X	Y
28	-1.14	+2.29
29	-1.14	0.00
30	-1.14	-2.29
31	-1.14	-4.57
32	-1.14	-6.86
33	-1.14	-9.14
34	+1.14	+9.14
35	+1.14	+6.86
36	+1.14	+4.57
37	+1.14	+2.29
38	+1.14	0.00
39	+1.14	-2.29
40	+1.14	-4.57

Ctc	X	Y
41	+1.14	-6.86
42	+1.14	-9.14
43	+3.12	+8.00
44	+3.12	+5.71
45	+3.12	+3.43
46	+3.12	+1.14
47	+3.12	-1.14
48	+3.12	-3.43
49	+3.12	-5.71
50	+3.12	-8.00
51	+5.11	+6.86
52	+5.11	+4.57
53	+5.11	+2.29

Ctc	X	Y
54	+5.11	0.00
55	+5.11	-2.29
56	+5.11	-4.57
57	+5.11	-6.86
58	+7.09	+5.71
59	+7.09	+3.43
60	+7.09	+1.14
61	+7.09	-1.14
62	+7.09	-3.43
63	+7.09	-5.71
64	+9.07	+2.29
65	+9.07	0.00
66	+9.07	-2.29

20

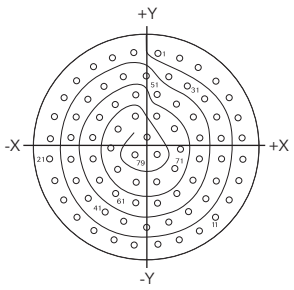
16



Ctc	X	Y
A	+3.00	+8.18
B	+6.88	+5.36
C	+8.66	+0.91
D	+7.82	-3.81
E	+4.62	-7.37
F	0.00	-8.71
G	-4.62	-7.37
H	-7.82	-3.81

Ctc	X	Y
J	-8.66	+0.91
K	-6.88	+5.36
L	-3.00	+8.18
M	0.00	+4.45
N	+3.91	+1.57
P	+2.39	-3.10
R	-2.39	-3.10
S	-3.91	+1.57

35



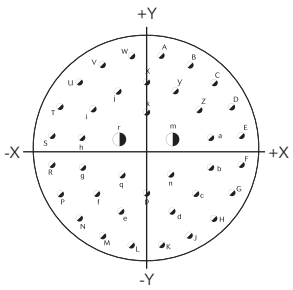
Ctc	X	Y
1	+1.35	+10.82
2	+3.71	+10.26
3	+5.89	+9.19
4	+7.77	+7.67
5	+9.27	+5.77
6	+10.31	+3.58
7	+10.85	+1.22
8	+10.85	-1.22
9	+10.31	-3.58
10	+9.27	-5.77
11	+7.77	-7.67
12	+5.89	-9.19
13	+3.71	-10.26

Ctc	X	Y
14	+1.35	-10.82
15	-1.35	-10.82
16	-3.71	-10.26
17	-5.89	-9.19
18	-7.77	-7.67
19	-9.27	-5.77
20	-10.31	-3.58
21	-10.85	-1.22
22	-10.85	+1.22
23	-10.31	+3.58
24	-9.27	+5.77
25	-7.77	+7.67
26	-5.89	+9.19
27	-3.71	+10.26
28	-1.35	+10.82
29	0.00	+8.20
30	+2.49	+8.18
31	+4.67	+7.11
32	+6.55	+5.59
33	+7.90	+3.58
34	+8.43	+1.22
35	+8.43	-1.22

Ctc	X	Y
36	+7.90	-3.58
37	+6.55	-5.59
38	+4.67	-7.11
39	+2.49	-8.18
40	0.00	-8.81
41	-2.49	-8.18
42	-4.67	-7.11
43	-6.55	-5.59
44	-7.90	-3.58
45	-8.43	-1.22
46	-8.43	+1.22
47	-7.90	+3.58
48	-6.55	+5.59
49	-4.67	+7.11
50	-2.49	+8.18
51	-1.22	+6.12
52	+1.22	+6.12
53	+3.40	+5.05
54	+5.28	+3.53
55	+6.02	+1.22
56	+6.02	-1.22
57	+5.28	-3.53

Ctc	X	Y
58	+3.40	-5.05
59	+1.22	-6.12
60	-1.22	-6.12
61	-3.40	-5.05
62	-5.28	-3.53
63	-6.02	-1.22
64	-6.02	+1.22
65	-5.28	+3.53
66	-3.40	+5.05
67	-1.22	+3.71
68	+1.22	+3.71
69	+3.18	+2.29
70	+3.94	0.00
71	+3.18	-2.29
72	+1.22	-3.71
73	-1.22	-3.71
74	-3.18	-2.29
75	-3.94	0.00
76	-3.18	+2.29
77	0.00	+1.35
78	+1.22	-0.74
79	-1.22	-0.74

39

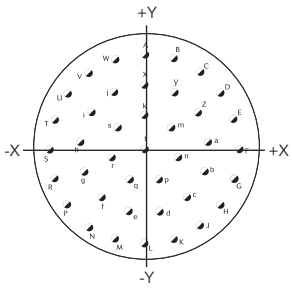


Ctc	X	Y
A	+1.65	+10.44
B	+4.80	+9.42
C	+7.47	+7.47
D	+9.42	+4.80
E	+10.44	+1.65
F	+10.44	-1.65
G	+9.42	-4.80
H	+7.47	-7.47
J	+4.80	-9.42
K	+1.65	-10.44
L	-1.65	-10.44
M	-4.80	-9.42
N	-7.47	-7.47

Ctc	X	Y
P	-9.42	-4.80
R	-10.44	-1.65
S	-10.44	+1.65
T	-9.42	+4.80
U	-7.47	+7.47
V	-4.80	+9.42
W	-1.65	+10.44
X	0.00	+7.49
Y	+3.20	+6.50
Z	+5.89	+4.55
a	+7.11	+1.45
b	+7.11	-1.88
c	+5.51	-4.80

Ctc	X	Y
d	+2.84	-6.73
e	-2.84	-6.73
f	-5.51	-4.80
g	-7.11	-1.88
h	-7.11	+1.45
i	-5.89	+4.55
j	-3.20	+6.50
k	0.00	+4.17
m	+2.90	+1.22
n	+2.69	-2.72
p	0.00	-4.80
q	-2.69	-2.72
r	-2.90	+1.22

41



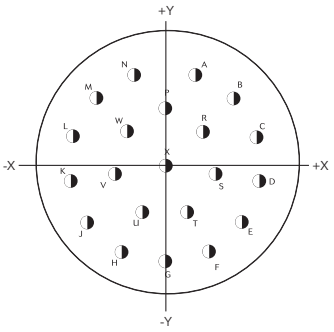
Ctc	X	Y
A	0.00	+10.60
B	+3.28	+10.09
C	+6.23	+8.58
D	+8.58	+6.23
E	+10.09	+3.28
F	+10.60	0.00
G	+10.09	-3.28
H	+8.58	-6.23
J	+6.23	-8.58
K	+3.28	-10.09
L	0.00	-10.60

Ctc	X	Y
M	-3.26	-10.09
N	-6.23	-8.58
P	-8.58	-6.23
R	-10.09	-3.28
S	-10.60	0.00
T	-10.09	+3.28
U	-8.58	+6.23
V	-6.23	+8.58
W	-3.28	+10.09
X	0.00	+7.20
Y	+3.35	+6.38

Ctc	X	Y
Z	+5.92	+4.09
a	+7.15	+0.87
b	+6.73	-2.55
c	+4.78	-5.39
d	+1.73	-6.99
e	-1.73	-6.99
f	-4.78	-5.39
g	-6.73	-2.55
h	-7.15	+0.87
i	-5.92	+4.09
j	-3.35	+6.38
k	0.00	+3.81
m	+2.98	+2.38
n	+3.71	-0.85
p	+1.66	-3.43
q	-1.66	-3.43
r	-3.71	-0.85
s	-2.98	+2.38
t	0.00	0.00

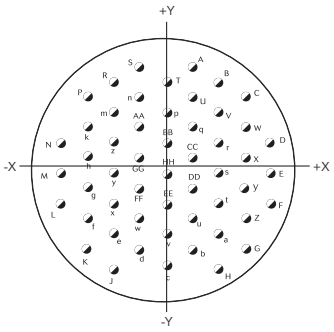
22

21



Ctc	X	Y
A	+3.25	+9.78
B	+7.34	+7.24
C	+9.80	+3.12
D	+10.16	-1.65
E	+8.33	-6.07
F	+4.65	-9.19
G	0.00	-10.31
H	-4.65	-9.19
J	-8.33	-6.07
K	-10.16	-1.65
L	-9.80	+3.12
M	-7.34	+7.24
N	-3.25	+9.78
P	0.00	+6.22
R	+4.06	+3.71
S	+5.44	-0.89
T	+2.39	-4.93
U	-2.39	-4.93
V	-5.44	-0.89
W	-4.06	+3.71
X	0.00	0.00

53



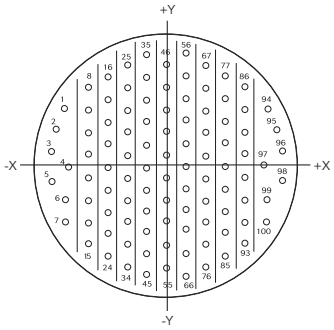
Ctc	X	Y
A	+2.84	+11.56
B	+5.72	+9.91
C	+8.53	+8.26
D	+11.43	+3.30
E	+11.43	0.00
F	+11.43	-3.30

Ctc	X	Y
G	+8.53	-8.26
H	+5.72	-10.41
J	-5.72	-10.41
K	-8.53	-8.26
L	-11.43	-3.30
M	-11.43	0.00

Ctc	X	Y
N	-11.43	+3.30
P	-8.53	+8.26
R	-5.72	+9.91
S	-2.84	+11.56
T	0.00	+9.91
U	+2.84	+8.26
V	+5.72	+6.60
W	+8.53	+4.95
X	+8.53	+1.65
Y	+8.53	-1.65
Z	+8.53	-4.95
a	+5.72	-6.60
b	+2.84	-8.26
c	0.00	-9.91
d	-2.84	-8.26
e	-5.72	-6.60
f	-8.53	-4.95
g	-8.53	-1.65
h	-8.53	+1.65
k	-8.53	+4.95

Ctc	X	Y
m	-5.72	+6.60
n	-2.84	+8.26
p	0.00	+6.60
q	+2.84	+4.95
r	+5.72	+3.30
s	+5.72	0.00
t	+5.72	-3.30
u	+2.84	-4.95
v	0.00	-6.60
w	-2.84	-4.95
x	-5.72	-3.30
y	-5.72	0.00
z	-5.72	+3.30
AA	-2.84	+4.95
BB	0.00	+3.30
CC	+2.84	+1.65
DD	+2.84	-1.65
EE	0.00	-3.30
FF	-2.84	-1.65
GG	-2.84	+1.65
HH	0.00	0.00

35



Ctc	X	Y
1	-10.87	+6.12
2	-11.86	+3.91
3	-12.40	+1.55
4	-10.54	0.00
5	-12.40	-1.55
6	-10.87	-3.61
7	-10.87	-6.02
8	-8.43	+8.46
9	-8.43	+6.05
10	-8.43	+3.63
11	-8.43	+1.22
12	-8.43	-1.19
13	-8.43	-3.61
14	-8.43	-6.02
15	-8.43	-8.43
16	-6.32	+9.65
17	-6.32	+7.24
18	-6.32	+4.83
19	-6.32	+2.41
20	-6.32	0.00

Ctc	X	Y
21	-6.32	-2.41
22	-6.32	-4.83
23	-6.32	-7.24
24	-6.32	-9.65
25	-4.22	+10.87
26	-4.22	+8.46
27	-4.22	+6.05
28	-4.22	+3.63
29	-4.22	+1.22
30	-4.22	-1.19
31	-4.22	-3.61
32	-4.22	-6.02
33	-4.22	-8.43
34	-4.22	-10.85
35	-2.11	+12.07
36	-2.11	+9.65
37	-2.11	+7.24
38	-2.11	+4.83
39	-2.11	+2.41
40	-2.11	0.00

Ctc	X	Y
41	-2.11	-2.41
42	-2.11	-4.83
43	-2.11	-7.24
44	-2.11	-9.65
45	-2.11	-12.07
46	0.00	+10.87
47	0.00	+8.46
48	0.00	+6.05
49	0.00	+3.63
50	0.00	+1.22
51	0.00	-1.19
52	0.00	-3.61
53	0.00	-6.02
54	0.00	-8.43
55	0.00	-10.85
56	+2.11	+12.07
57	+2.11	+9.65
58	+2.11	+7.24
59	+2.11	+4.83
60	+2.11	+2.41

Ctc	X	Y
61	+2.11	0.00
62	+2.11	-2.41
63	+2.11	-4.83
64	+2.11	-7.24
65	+2.11	-9.65
66	+2.11	-12.07
67	+4.22	+10.87
68	+4.22	+8.46
69	+4.22	+6.05
70	+4.22	+3.63
71	+4.22	+1.22
72	+4.22	-1.19
73	+4.22	-3.61
74	+4.22	-6.02
75	+4.22	-8.43
76	+4.22	-10.85
77	+6.32	+9.65
78	+6.32	+7.24
79	+6.32	+4.83
80	+6.32	+2.41

Ctc	X	Y
81	+6.32	0.00
82	+6.32	-2.41
83	+6.32	-4.83
84	+6.32	-7.24
85	+6.32	-9.65
86	+8.43	+8.46
87	+8.43	+6.05
88	+8.43	+3.63
89	+8.43	+1.22
90	+8.43	-1.19
91	+8.43	-3.61
92	+8.43	-6.02
93	+8.43	-8.43
94	+10.87	+6.12
95	+11.86	+3.91
96	+12.40	+1.55
97	+10.54	0.00
98	+12.40	-1.55
99	+10.87	-3.61
100	+10.87	-6.02

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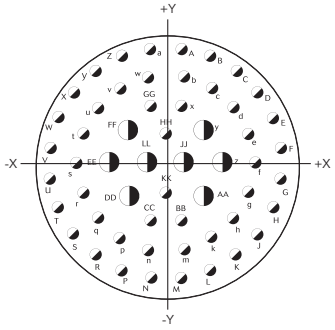
04



Ctc	X	Y
A	+1.75	+13.49
B	+5.16	+12.57
C	+8.23	+10.80
D	+10.77	+8.28
E	+12.52	+5.21
F	+13.49	+1.75
G	+13.49	-1.75

Ctc	X	Y
H	+12.52	-5.21
J	+10.77	-8.28
K	+8.23	-10.80
L	+5.16	-12.57
M	+1.75	-13.49
N	-1.75	-13.49
P	-5.16	-12.57

Ctc	X	Y
R	-8.23	-10.80
S	-10.77	-8.28
T	-12.52	-5.21
U	-13.49	-1.75
V	-13.49	+1.75
W	-12.52	+5.21
X	-10.77	+8.28
Y	-8.23	+10.80
Z	-5.16	+12.57
a	-1.75	+13.49
b	+2.18	+10.08
c	+5.38	+8.78
d	+7.90	+6.38
e	+9.58	+3.35
f	+10.46	0.00
g	+9.58	-3.35
h	+7.90	-6.38
k	+5.38	-8.78
m	+2.18	-10.08
n	-2.18	-10.08
p	-5.38	-8.78

Ctc	X	Y
q	-7.90	-6.38
r	-9.58	-3.35
s	-10.46	0.00
t	-9.58	+3.35
u	-7.90	+6.38
v	-5.38	+8.78
w	-2.18	+10.08
x	+1.75	+6.66
y	+4.37	+3.78
z	+6.55	0.00
AA	+4.37	-3.78
BB	+1.75	-6.66
CC	-1.75	-6.66
DD	-4.37	-3.78
EE	-6.55	0.00
FF	-4.37	-3.78
GG	-1.75	-6.66
HH	0.00	+3.35
JJ	+2.18	0.00
KK	0.00	-3.35
LL	-2.18	0.00

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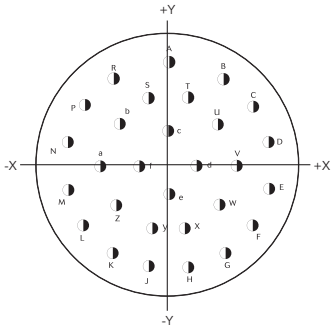
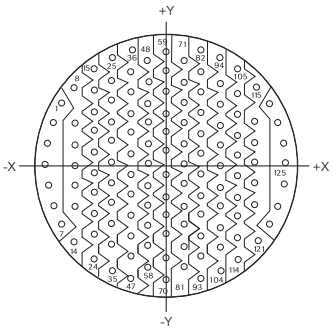


Ctc	X	Y
A	0.00	+12.22
B	+6.55	+10.31
C	+10.03	+7.04
D	+11.91	+2.77
E	+11.91	-2.77
F	+10.03	-7.04
G	+6.68	-10.31
H	+2.31	-11.99

Ctc	X	Y
J	-2.31	-11.99
K	-6.68	-10.31
L	-10.03	-7.04
M	-11.91	-2.77
N	-11.91	+2.77
P	-10.03	+7.04
R	-6.55	+10.31
S	-2.31	+8.15
T	+2.31	+8.15
U	+5.79	+4.93
V	+8.10	0.00
W	+6.10	-4.60
X	+2.31	-7.37
Y	-2.31	-7.37
Z	-6.10	-4.60
a	-8.10	0.00
b	-5.79	+4.93
c	0.00	+4.09
d	+3.40	0.00
e	0.00	-3.30
f	-3.40	0.00

35



Ctc	X	Y
1	-12.17	+7.09
2	-13.21	+4.83
3	-13.87	+2.41
4	-14.10	0.00
5	-13.87	-2.41
6	-13.21	-4.83
7	-12.17	-7.09
8	-10.77	+9.07
9	-10.54	+4.83
10	-10.54	+2.41
11	-10.54	0.00
12	-10.54	-2.41
13	-10.54	-4.83
14	-10.77	-9.07
15	-8.43	+11.28
16	-8.43	+8.43
17	-8.43	+6.02
18	-8.43	+3.61
19	-8.43	+1.19
20	-8.43	-1.19
21	-8.43	-3.61
22	-8.43	-6.02
23	-8.43	-8.43
24	-8.43	-10.85
25	-6.32	+12.60
26	-6.32	+9.65

Ctc	X	Y
27	-6.32	+7.24
28	-6.32	+4.83
29	-6.32	+2.41
30	-6.32	0.00
31	-6.32	-2.41
32	-6.32	-4.83
33	-6.32	-7.24
34	-6.32	-9.65
35	-6.32	-12.07
36	-4.06	+13.49
37	-4.22	+10.85
38	-4.22	+8.43
39	-4.22	+6.02
40	-4.22	+3.61
41	-4.22	+1.19
42	-4.22	-1.19
43	-4.22	-3.61
44	-4.22	-6.02
45	-4.22	-8.43
46	-4.22	-10.85
47	-4.22	-13.26
48	-2.11	+12.07
49	-2.11	+9.65
50	-2.11	+7.24
51	-2.11	+4.83
52	-2.11	+2.41

Ctc	X	Y
53	-2.11	0.00
54	-2.11	-2.41
55	-2.11	-4.83
56	-2.11	-7.24
57	-2.11	-9.65
58	-2.11	-12.07
59	0.00	+13.26
60	0.00	+10.85
61	0.00	+8.43
62	0.00	+6.02
63	0.00	+3.61
64	0.00	+1.19
65	0.00	-1.19
66	0.00	-3.61
67	0.00	-6.02
68	0.00	-8.43
69	0.00	-10.85
70	0.00	-14.10
71	+2.11	+12.07
72	+2.11	+9.65
73	+2.11	+7.24
74	+2.11	+4.83
75	+2.11	+2.41
76	+2.11	0.00
77	+2.11	-2.41
78	+2.11	-4.83

Ctc	X	Y
79	+2.11	-7.24
80	+2.11	-9.65
81	+2.11	-12.07
82	+4.06	+13.49
83	+4.22	+10.85
84	+4.22	+8.43
85	+4.22	+6.02
86	+4.22	+3.61
87	+4.22	+1.19
88	+4.22	-1.19
89	+4.22	-3.61
90	+4.22	-6.02
91	+4.22	-8.43
92	+4.22	-10.85
93	+4.22	-13.26
94	+6.32	+12.60
95	+6.32	+9.65
96	+6.32	+7.24
97	+6.32	+4.83
98	+6.32	+2.41
99	+6.32	0.00
100	+6.32	-2.41
101	+6.32	-4.83
102	+6.32	-7.24
103	+6.32	-9.65

Ctc	X	Y
104	+6.32	-12.07
105	+8.43	+11.28
106	+8.43	+8.43
107	+8.43	+6.02
108	+8.43	+3.61
109	+8.43	+1.19
110	+8.43	-1.19
111	+8.43	-3.61
112	+8.43	-6.02
113	+8.43	-8.43
114	+8.43	-10.85
115	+10.77	+9.07
116	+10.54	+4.83
117	+10.54	+2.41
118	+10.54	0.00
119	+10.54	-2.41
120	+10.54	-4.83
121	+10.77	-9.07
122	+12.17	+7.09
123	+13.21	+4.83
124	+13.87	+2.41
125	+14.10	0.00
126	+13.87	-2.41
127	+13.21	-4.83
128	+12.17	-7.09

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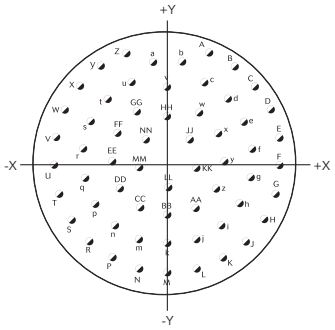
61



Ctc	X	Y
A	+4.98	+12.70
B	+7.98	+11.05
C	+10.49	+8.71
D	+12.32	+5.84
E	+13.39	+2.57
F	+13.61	-0.76
G	+12.98	-4.17
H	+11.53	-7.29
J	+9.35	-9.93
K	+6.58	-11.94
L	+3.40	-13.18
M	0.00	-13.64
N	-3.40	-13.18

Ctc	X	Y
P	-6.58	-11.94
R	-9.35	-9.93
S	-11.53	-7.29
T	-12.98	-4.17
U	-13.61	-0.76
V	-13.39	+2.57
W	-12.32	+5.84
X	-10.49	+8.71
Y	-7.98	-11.05
Z	-4.98	+12.10
a	-1.73	+11.53
b	+1.73	+11.53

Ctc	X	Y
c	+4.39	+9.22
d	+7.24	+7.19
e	+9.19	+4.45
f	+10.13	+1.17
g	+9.96	-2.24
h	+8.66	-5.41
i	+6.38	-7.98
j	+3.38	-9.63
k	0.00	-10.21
m	-3.38	-9.63
n	-6.38	-7.98
p	-8.66	-5.41

Ctc	X	Y
q	-9.96	-2.24
r	-10.13	+1.17
s	-9.19	+4.45
t	-7.24	+7.19
u	-4.39	+9.22
v	0.00	+8.59
w	+3.73	+5.66
x	+6.02	+3.10
y	+6.78	-0.25
z	+5.79	-3.53
AA	+3.33	-5.92
BB	0.00	-6.78

Ctc	X	Y
CC	-3.33	-5.92
DD	-5.79	-3.53
EE	-6.78	-0.25
FF	-6.02	+3.10
GG	-3.73	+5.66
HH	0.00	+5.08
JJ	+2.67	+2.39
KK	+3.43	-1.04
LL	0.00	-3.35
MM	-3.43	-1.04
NN	-2.67	+2.39
PP	0.00	0.00

Cross reference list

Designation	SOURIAU	MIL-DTL-38999 Series II	NFC 93422 HE309
	Shell size Contact layout Orientation **8TX••X••X/X•**	Shell size Contact layout Orientation **MSXXXXXX••X••X/X•**	Shell size & Contact layout Orientation **HE309XXX••••X/X•XX**
Square flange receptacle	8T0••B••P/S• 8T0••F••P/S• 8T0••C••P/S•	MS27472T••B••P/S• MS27472T••F••P/S• MS27472T••C••P/S•	HE30900T••••P/S•7M HE30900T••••P/S•6M HE30900T••••P/S•8M
In line receptacle	8T1••B••P/S• 8T1••F••P/S• 8T1••C••P/S•	-	-
Square flange receptacle not accepting backshells (rear mounting)	8T2••B••P/S• 8T2••F••P/S• 8T2••C••P/S•	MS27508E••B••P/S• MS27508E••F••P/S• MS27508E••C••P/S•	HE30905T••••P/S•7M HE30905T••••P/S•6M HE30905T••••P/S•8M
Square flange receptacle (rear mounting)	8T3••B••P/S• 8T3••F••P/S• 8T3••C••P/S•	MS27497T••B••P/S• MS27497T••F••P/S• MS27497T••C••P/S•	HE30903T••••P/S•7M HE30903T••••P/S•6M HE30903T••••P/S•8M
Square flange receptacle not accepting backshells	8T4••B••P/S• 8T4••F••P/S• 8T4••C••P/S•	MS27499E••B••P/S• MS27499E••F••P/S• MS27499E••C••P/S•	HE30902T••••P/S•7M HE30902T••••P/S•6M HE30902T••••P/S•8M
Plug with RFI shielding	8T5••B••P/S• 8T5••F••P/S• 8T5••C••P/S•	MS27484T••B••P/S• MS27484T••F••P/S• MS27484T••C••P/S•	HE309G6T••••P/S•7M HE309G6T••••P/S•6M HE309G6T••••P/S•8M
Plug without RFI shielding	8T6••B••P/S• 8T6••F••P/S• 8T6••C••P/S•	MS27473T••B••P/S• MS27473T••F••P/S• MS27473T••C••P/S•	HE30906T••••P/S•7M HE30906T••••P/S•6M HE30906T••••P/S•8M
Jam nut receptacle	8T7••B••P/S• 8T7••F••P/S• 8T7••C••P/S•	MS27474T••B••P/S• MS27474T••F••P/S• MS27474T••C••P/S•	HE30907T••••P/S•7M HE30907T••••P/S•6M HE30907T••••P/S•8M
Square flange receptacle not accepting backshells (rear milling)	8T10••B••P/S• 8T10••F••P/S• 8T10••C••P/S•	-	-
Plug with RFI shielding not accepting backshells (rear milling)	8T15••B••P/S• 8T15••F••P/S• 8T15••C••P/S•	-	-
Plug without RFI shielding not accepting backshells (rear milling)	8T16••B••P/S• 8T16••F••P/S• 8T16••C••P/S•	-	-
Backshells	8TAB01A••W 8TAB01A••F	M85049/27••W M85049/27••N	-

8T SERIES

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8T Series

Range Extension

- Box mount interconnect solutions 48
- Rack and panel 48
- *micro*Comp® Series 49
- Double flange 49
- Integrated clinch nut or helicoils 50
- PC tail contacts without shoulder 50

Product range extension

Box Mount Interconnect Solutions

Box Interconnect Solutions: Inside/Outside. Anything you need - we can do!

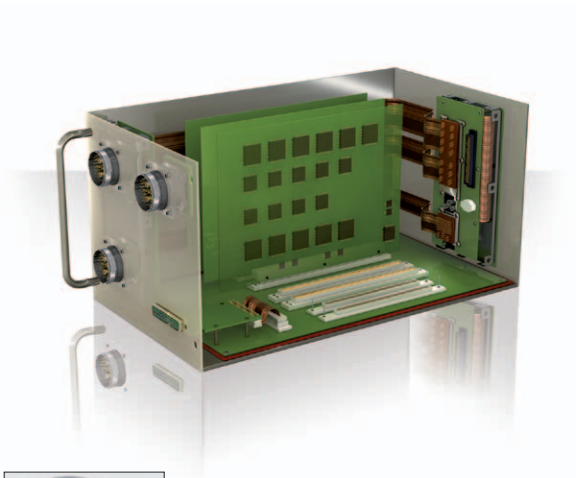
PCB terminations:
. with many lengths and different types of plating.

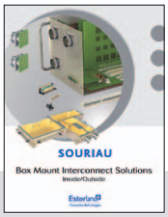
Shape of connector can be adapted:
. to meet the board application as double flange receptacles.

Receptacles with short shell:
. to minimize space inside the box.

Any customized design:
. to make box mount easier when space is a constraint.

Blindmate/hermetic/thin panel assembly solutions...





See «Box Mount Interconnect Solutions» catalog on www.souriau.com

Rack and Panel

Sealed rack and panel for blind connection. A 100% scoop proof connector with quick connection in hard-to-reach areas.

Blind connection:
. Easy and fast connection without any coupling/uncoupling between a float-mounting unit & a fixed unit.

Float-mounting unit - rack:
. Female crimp contacts.
. Mounting on the cabinet side.
. Angular orientation with a key.
. Possibility to supply rear accessories.

Misalignment catching:
. Longitudinal, axial and angular.

See «38999 Series I - 8LT Series Rack & Panel» datasheet on www.souriau.com

Product range extension

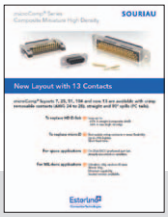
*micro*Comp® Series

To respond to miniaturization and weight saving trends in aeronautical and defense applications SOURIAU has developed an innovative high density connector range.

Very light & high density:
. Shell in composite (or aluminum).
. Up to 66% lighter than HD D-Sub.
. Very high density up to 40% smaller than HD D-Sub.

Excellent features:
. With crimp removable contacts for wire AWG 24 to 28
. Temperature up to 175°C
. High vibration and shock withstanding
. Standard MIL-STD 83513 accessories
. Compatible with high speed data rates (Gigabit Ethernet...)

Quick connect version for harsh environment:
. 104 contacts push-push



See «*micro*Comp® Series - Miniature High Density» datasheet on www.souriau.com

Double Flange

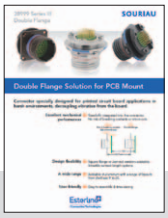
Double flange solution for PCB mount. Specially designed for PCB applications in harsh environments, decoupling vibration from the board.

Excellent mechanical performance:
. Standoffs integrated into the connector.
. No risk of breaking contacts and no risk of micro-cuts.

Design flexibility:
. Square flange or Jam nut versions available.
. Versatile contact length options.

A wide range:
. Available in aluminum with a range of layouts from shell size 9 to 25.

User friendly:
. Easy to assemble & time saving.



See «38999 Series III - Double Flange» datasheet on www.souriau.com

Product range extension

Integrated Clinch Nut or Helicoils

Integrated clinch nut solution for box mount. Equivalent mounting retention of the receptacle ensured with only 4 clinch nuts. Designed for severe applications.

User friendly:
. Easy to install.

Selflocking:
. Fast and secure.

Reduced mounting hardware:
. Elimination of nuts and washers.

Foreign Object Debris reduction

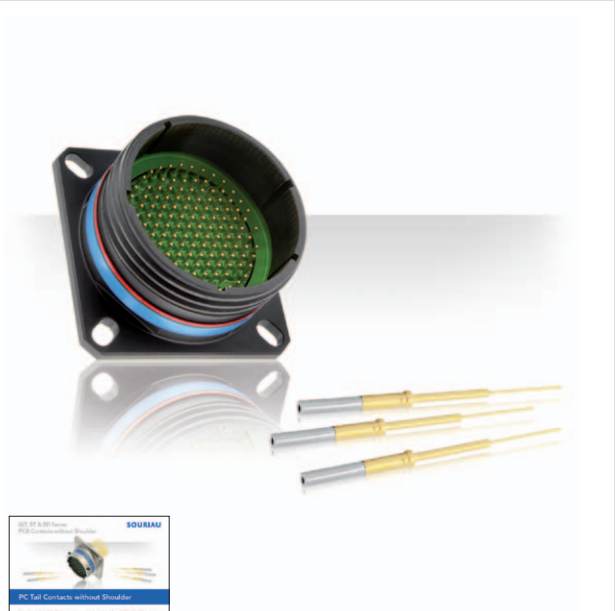
See «38999 Series III - Clinch Nut or Helicoils» datasheet on www.souriau.com

PC Tail Contacts without Shoulder

Pin & socket PCB contacts without shoulder #22D and #20 as per MIL-DTL-38999 Series I, II & III. Contacts without shoulder allows a more flexible mounting on variable PCB thicknesses or depths.

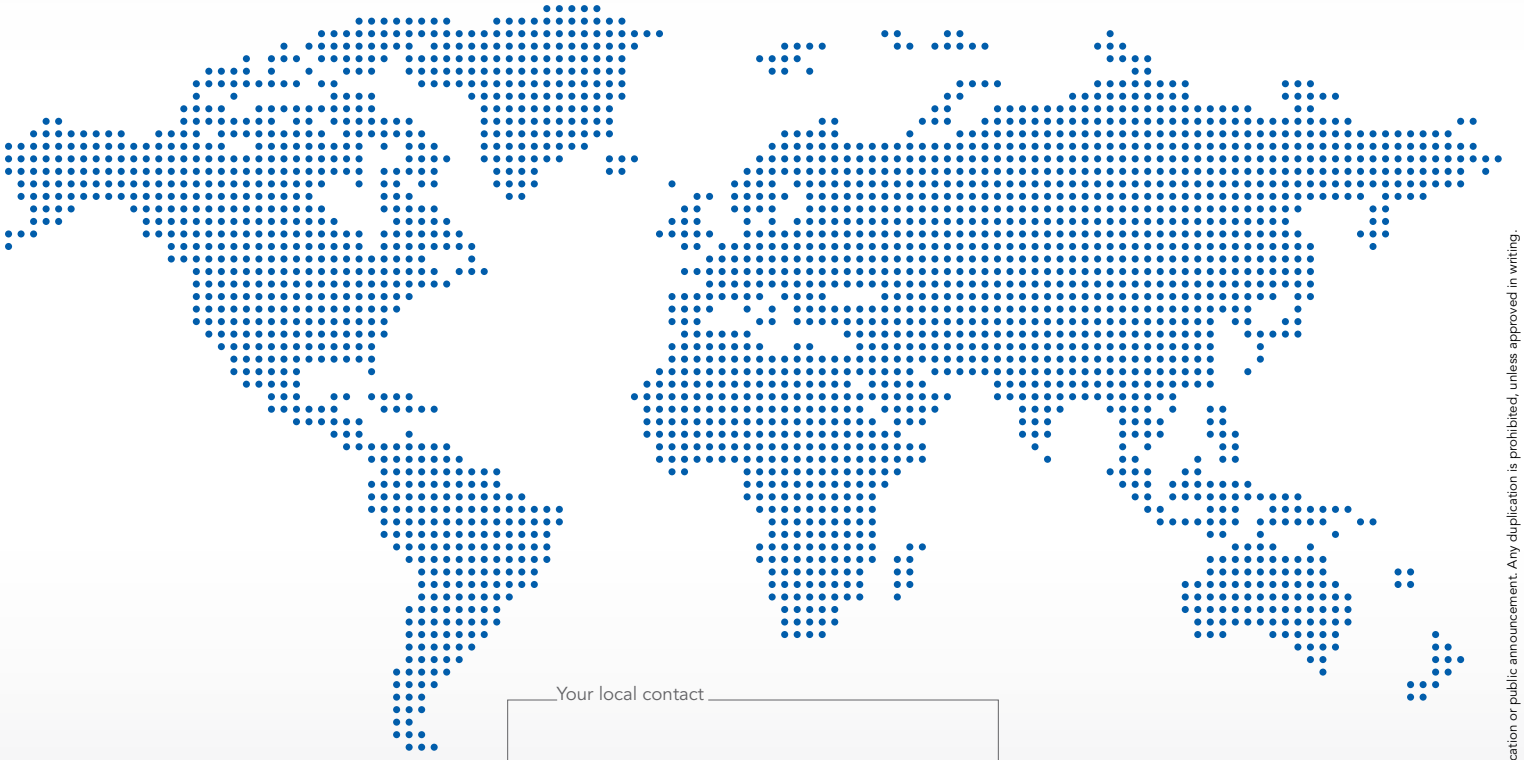
Ruggedized contacts:
. Material: copper alloy
. Finish: gold per MIL-G-45204 type I class 1 over nickel plate
. Sleeve: stainless steel

Flexible mounting:
. Various PCB thicknesses.
. Multiple PCB positioning.



See «PCB contacts without shoulder» datasheet on www.souriau.com

Reliable People, Reliable Solutions



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