



# Low Profile Bayonet Connectors

## MIL-DTL-38999 Series II





## 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 approved
- 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

8T Series

# Overview

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## Typical applications



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Civil and Military Aerospace



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Missiles and Weapon Systems



© Dougg / Fotolia

Armored Carrier and Tanks



© JFS / Fotolia

Communication Equipment



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Medical Instrumentation



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Marine Equipment

## Features & Benefits

**QPL**

### **MIL-DTL-38999 Qualified**

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

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**QUICK  
MATING**

### **Fast and secure mating**

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

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**LOW  
PROFILE**

### **Space and weight saving**

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

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**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.

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**RoHS**

### **Environment friendly**

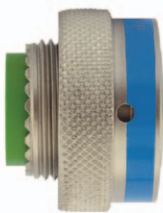
RoHS black zinc nickel plating available.  
RoHS nickel plating available.

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**A large offer**

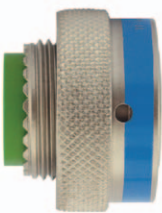
PLUGS

Plug with grounding ring



**8T5**  
MS27484T

Plug without grounding ring



**8T6**  
MS27473T



**8T15**



**8T16**

RECEPTACLES

Square flange receptacle front mounting



**8T0**  
MS27472T



**8T4**  
MS27499E



**8T10**

Square flange receptacle rear mounting



**8T3**  
MS27497T



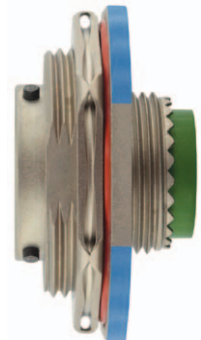
**8T2**  
MS27508E

In line receptacle



**8T1**

Jam nut receptacle



**8T7**  
MS27474T

**PC Tail**  
receptacles  
available



ACCESSORIES

**Backshells**

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

Please see page 24.



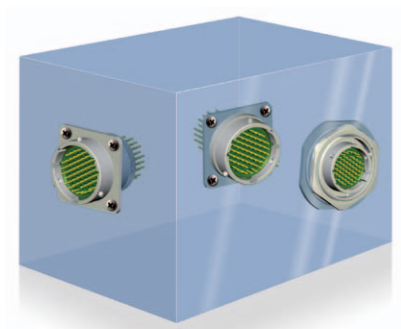
**Metallic caps**

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

Please see page 27.



## Main characteristics

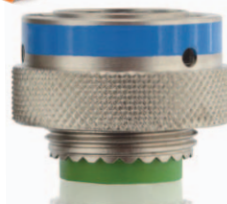


### Versatility

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



**30% Shorter**



**8T**  
**38999 Series II**  
Example: 8T5



**8LT**  
**38999 Series I**  
Example: 8LT5

### Shell size comparison

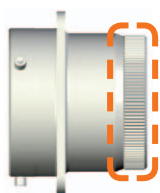
**8T Series shorter** for all shell types compared to 8LT Series

## A versatile range available

FROM YOUR NEED...



Short grommet



Integrated backshell



With accessory threads

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
<b>8T2</b>	<b>8T4</b>	<b>8T10</b>	<b>8T15</b>	<b>8T16</b>	<b>8T0</b>	<b>8T3</b>	<b>8T1</b>	<b>8T7</b>	<b>8T5</b>	<b>8T6</b>

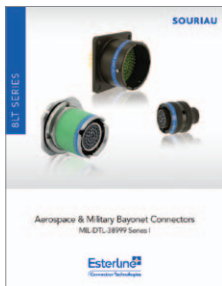
...TO OUR SOLUTION!

## 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](http://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](http://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](http://www.esterline-connection-technologies.com)

## Worldwide sales network

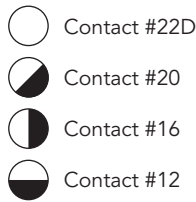
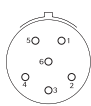

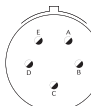
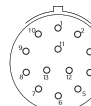
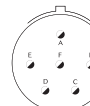
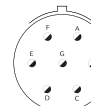
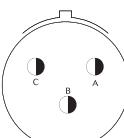
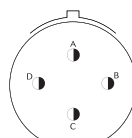
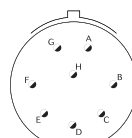
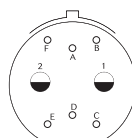
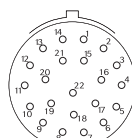
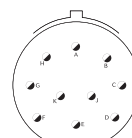
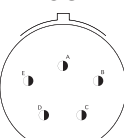
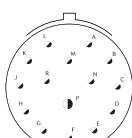
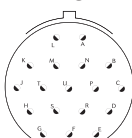
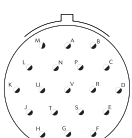
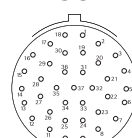
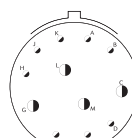
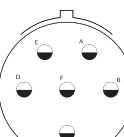
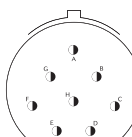
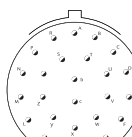
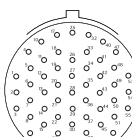

SOURIAU-SUNBANK is recognized as one of the top international manufacturers of connectors for harsh environment and is continuously strengthening its leading position through its solid structure as an international group. Today the SOURIAU-SUNBANK group has a strong worldwide global presence on 4 continents.

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

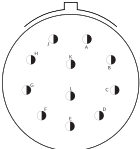
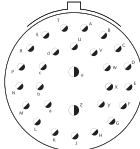
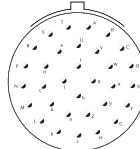
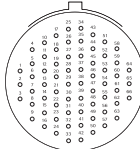
## Contact layouts





08		10				
<b>35</b>  6#22D Service M	<b>98</b>  3#20 Service I	<b>05*</b>  5#20 Service I	<b>35</b>  13#22D Service M	<b>98</b>  6#20 Service I	<b>99</b>  7#20 Service I	
12						
<b>03</b>  3#16 Service I	<b>04*</b>  4#16 Service I	<b>08**</b>  8#20 Service I	<b>26*</b>  6#22D 2#12 Service M	<b>35</b>  22#22D Service M	<b>98</b>  10#20 Service I	
14						
<b>05*</b>  5#16 Service II	<b>15*</b>  14#20 1#16 Service I	<b>18*</b>  18#20 Service I	<b>19*</b>  19#20 Service I	<b>35</b>  37#22D Service M	<b>97*</b>  8#20 4#16 Service I	
16						
<b>06</b>  6#12 or 6#12 Coax Service I	<b>08*</b>  8#16 Service II	<b>26*</b>  26#20 Service I	<b>35</b>  55#22D Service M	<b>99</b>  2#16 21#20 Service I		

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

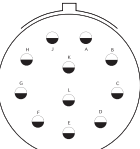
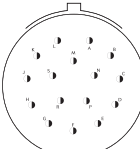
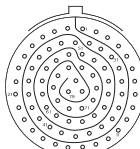
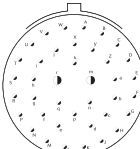
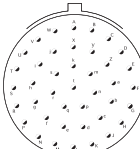
\*\* Layout not available on 8T2 & 8T4 (short grommet) / Layout available on other types (long grommet) but only with male insert. For female version or short grommet, please consult us.

18

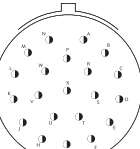
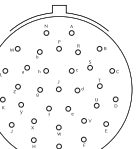
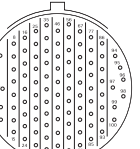
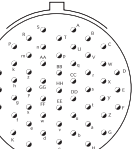
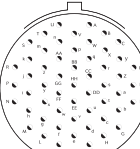
<b>11*</b>	<b>28</b>	<b>32</b>	<b>35</b>
			
11#16 Service II	26#20 2#16 Service I	32#20 Service I	66#22D Service M

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

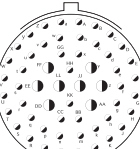
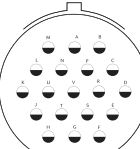
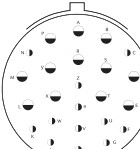
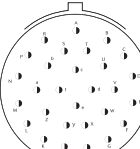
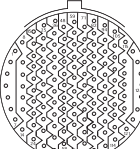
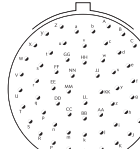
20

<b>11*</b>	<b>16</b>	<b>35</b>	<b>39</b>	<b>41</b>
				
11#12 Service I	16#16 Service II	79#22D Service M	37#20 2#16 Service I	41#20 Service I

22

<b>21*</b>	<b>32</b>	<b>35</b>	<b>53*</b>	<b>55</b>
				
21#16 Service II	32#20 Service I	100#22D Service M	53#20 Service I	55#20 Service I

24

<b>04</b>	<b>19*</b>	<b>24*</b>	<b>29*</b>	<b>35</b>	<b>61*</b>
					
48#20 8#16 Service I	19#12 Service I	12#12 12#16 Service I	29#16 Service I	128#22D Service M	61#20 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 <sup>(1)</sup>		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 <sup>(1)</sup>	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 <sup>(1)</sup>	Q	5			5	
	14-15	I	OK	Q <sup>(1)</sup>		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 <sup>(1)</sup>	Q	8			8	
	16-26	I	OK	Q <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(2)</sup>	Q	39		37	2	
	20-41	I	OK	Q	Q	41		41		
22	22-21	II	OK	Q <sup>(1)</sup>	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 <sup>(1)</sup>	Q	19				19
	24-24	II	OK	Q <sup>(1)</sup>		24			12	12
	24-29	I	OK	Q <sup>(1)</sup>	Q	29			29	
	24-35	M	OK	Q	Q	128	128			
	24-61	I	OK	Q <sup>(1)</sup>	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

## 8T Series

# Standard Series

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## 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 ≤ 8cm<sup>3</sup>/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, O/180, H 515, H 542, XH 45



## Ordering information

### SOURIAU part number

<b>Basic Series</b>	<b>8T</b>	<b>0</b>	<b>-</b>	<b>14</b>	<b>B</b>	<b>35</b>	<b>P</b>	<b>N</b>		
<b>Shell type:</b> 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)										
<b>Contact style:</b> (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										
<b>Shell size: 08; 10; 12; 14; 16; 18; 20; 22; 24</b>										
<b>Plating:</b> Z: Black zinc nickel F: Nickel B: Olive drab cadmium C: Hard anodized										
<b>Contact layout:</b> See pages 11 to 13										
<b>Contact type:</b> 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)										
<b>Orientation: N, A, B, C &amp; D</b>										
<b>Special custom:</b> None: Standard plastic cap M: Antistatic plastic cap										
<b>L:</b> 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

<b>Basic Series</b>	<b>MS</b>	<b>27497T</b>	<b>14</b>	<b>B</b>	<b>35</b>	<b>P</b>			
<b>Shell type &amp; Class:</b>									
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)									
<b>Shell size: 08; 10; 12; 14; 16; 18; 20; 22; 24</b>									
<b>Plating:</b>									
Z: Black zinc nickel									
B: Olive drab cadmium									
F: Nickel									
<b>Contact layout:</b> See pages 11 to 13									
<b>Contact type:</b>									
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)									
<b>Orientation:</b>									
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

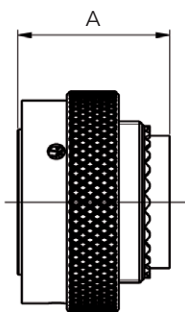
<b>Basic Series</b>	<b>HE309</b>	<b>03</b>	<b>T</b>	<b>10</b>	<b>35</b>	<b>P</b>	<b>N</b>	<b>6</b>	<b>L</b>
<b>Shell type:</b>									
03: Square flange receptacle with thread for back fitting									
05: Square flange receptacle without thread for back fitting									
06: Plug without RFI shielding									
07: Jam nut receptacle									
<b>Class:</b>									
T: Sealed									
<b>Shell size: 08; 10; 12; 14; 16; 18; 20; 22; 24</b>									
<b>Contact layout:</b> See pages 11 to 13									
<b>Contact type:</b>									
P: Pin									
S: Socket									
<b>Orientation: N, A, B, C &amp; D</b>									
<b>Plating:</b>									
6: Nickel									
7: Olive drab cadmium									
8: Hard anodized									
<b>Specification</b>									
-: Connector delivered with contacts									
L: Connector delivered without contacts									

## Dimensions

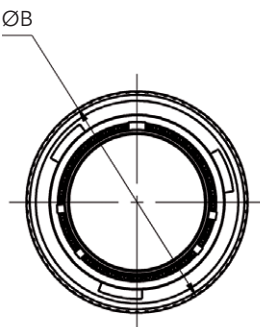
### Plug 8T5 type & 8T15 type



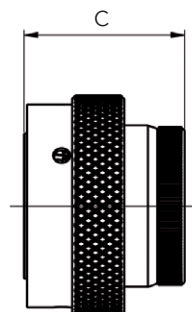
8T5 type  
Plug with  
accessories thread,  
with grounding ring



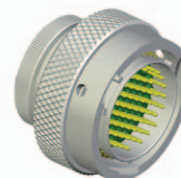
8T5 type



8T5/8T15 types



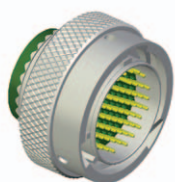
8T15 type



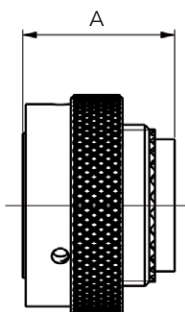
8T15 type  
Plug with  
integrated backshell,  
with grounding ring

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

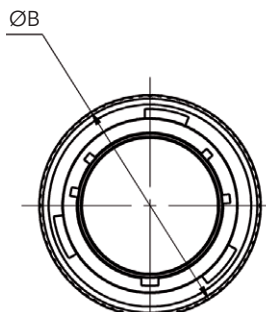
### Plug 8T6 type & 8T16 type



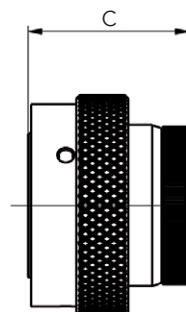
8T6 type  
Plug with  
accessories thread,  
without grounding ring



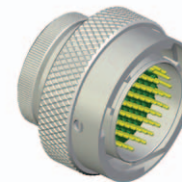
8T6 type



8T6/8T16 types



8T16 type



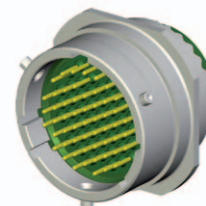
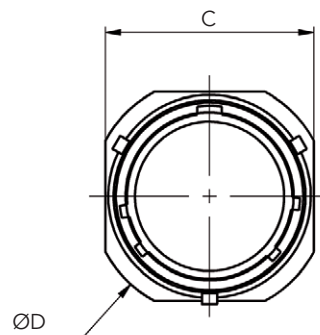
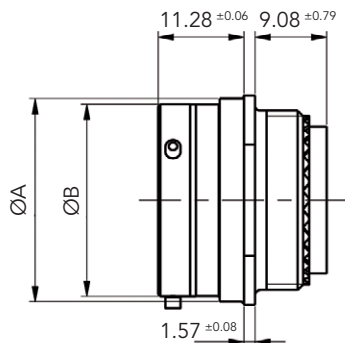
8T16 type  
Plug with  
integrated backshell,  
without grounding ring

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 ±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

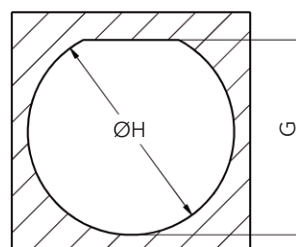
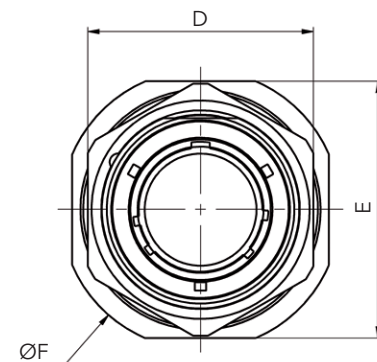
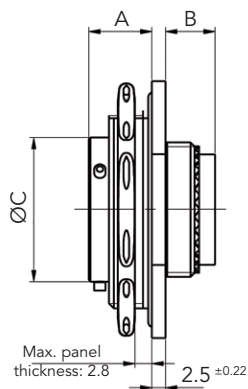
### In-line receptacle 8T1 type



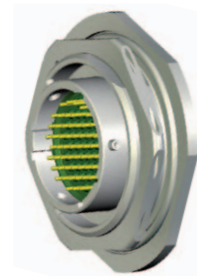
8T1 type  
In line receptacle  
with accessories thread

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



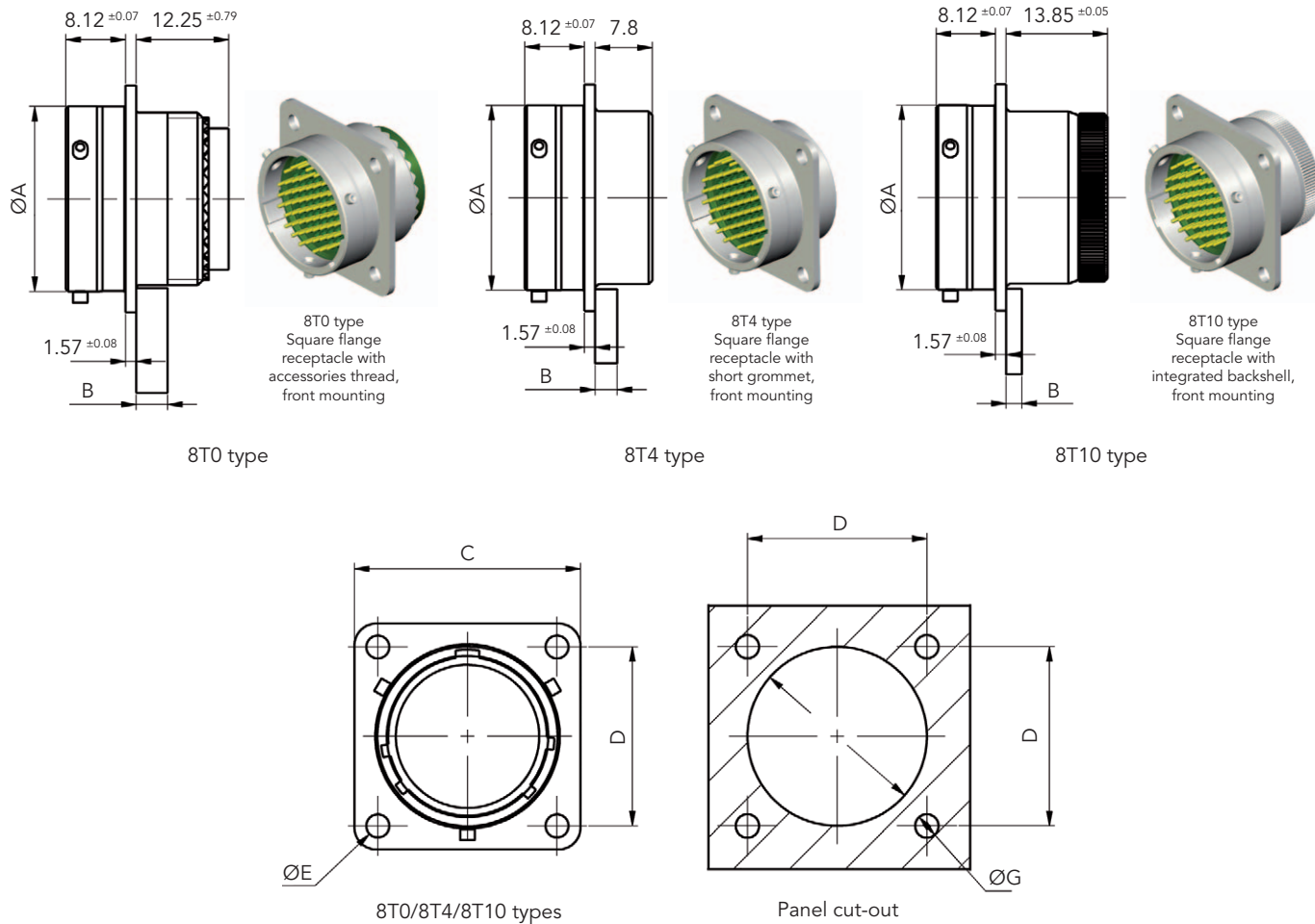
8T7 type  
Jam nut receptacle  
with accessories thread

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 $0_{-0.25}^{+0.25}$	21.08	24.26	27.53	30.68	33.86	37.06	40.03	43.21	46.38
ØH $0_{+0.25}^{+0.25}$	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

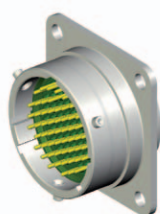
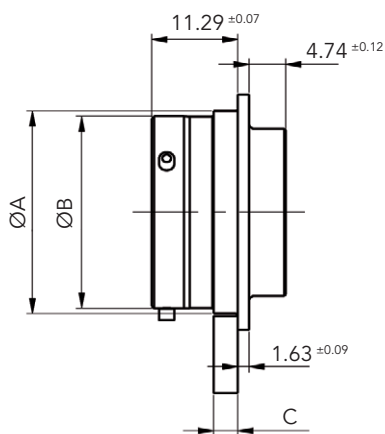


Shell size	08	10	12	14	16	18	20	22	24
ØA ±0.08	12.96	14.93	19.00	22.17	25.35	28.52	31.70	34.87	38.05
B Max.	3.71	3.71	3.71	3.71	3.71	3.71	4.27	4.27	4.27
C	Min.	20.52	23.73	26.11	28.50	30.86	33.22	36.42	39.60
	Max.	21.03	24.23	26.59	28.98	31.34	33.73	36.91	40.08
D	15.09	18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93
ØE	Min.	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.71
	Max.	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)

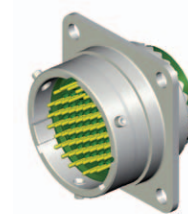
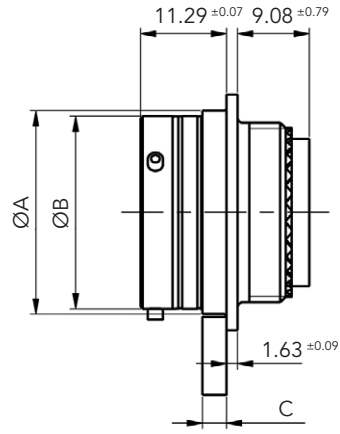
## Dimensions

### Square flange receptacle 8T2 type & 8T3 type



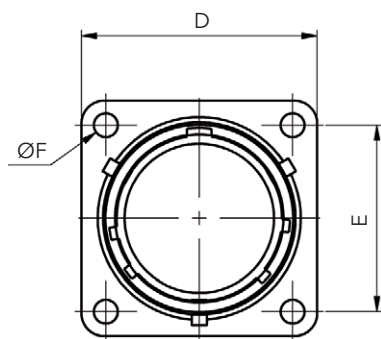
8T2 type  
Square flange  
receptacle with  
short grommet,  
rear mounting

8T2 type

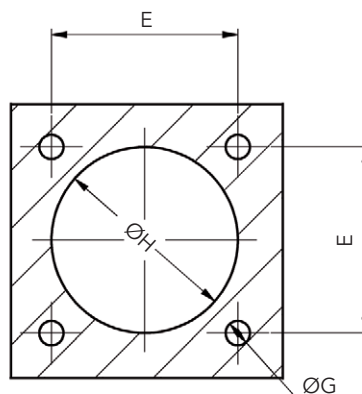


8T3 type  
Square flange  
receptacle with  
accessories thread,  
rear mounting

8T3 type



8T2/8T3 types



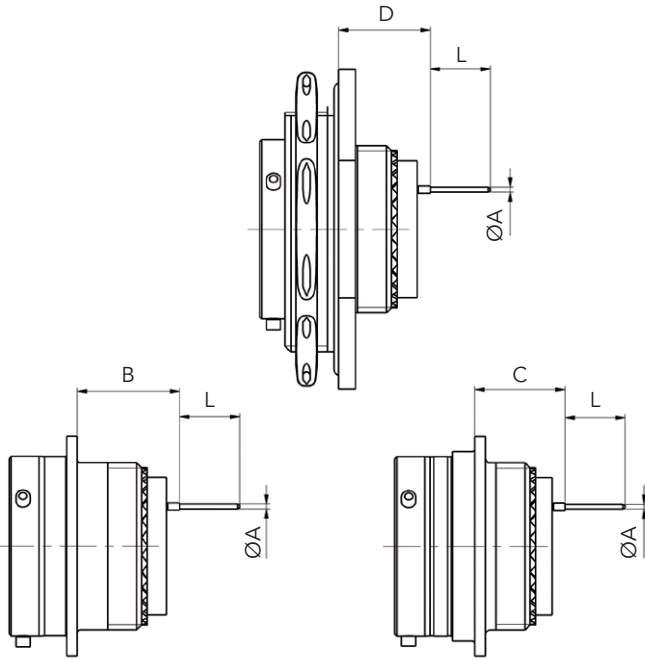
Panel cut-out

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
	Max.	21.10	24.31	26.69	29.08	31.71	34.10	37.28	40.45
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	3.71
	Max.	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

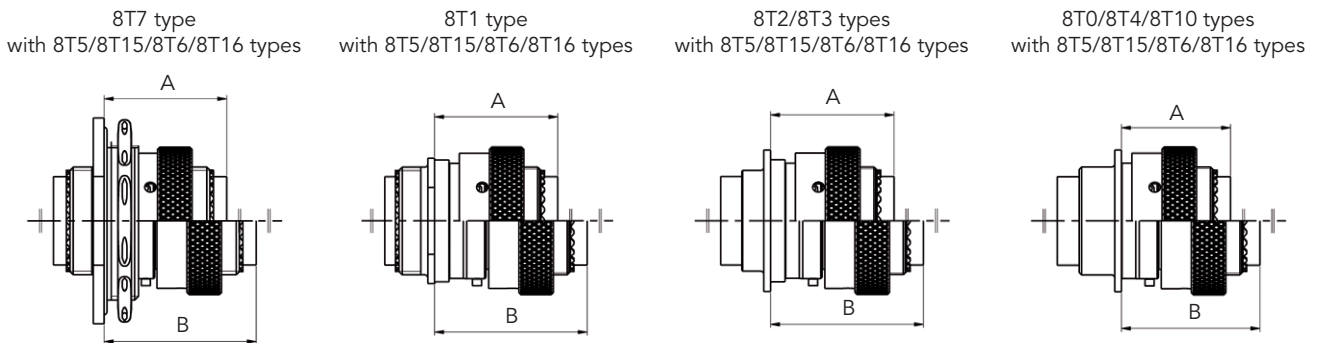
### Receptacle with straight PC tail contacts



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



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																	
20 to 24	28.34	34.52	28.40	34.58	29.31	35.49	29.37	35.55	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	

Note: All dimensions are in millimeters (mm)

## Aluminum backshells

### Ordering information

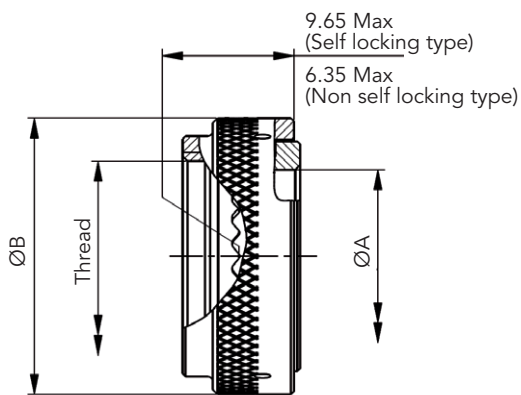
Basic Series	8T	AB	05	A	16	W	S	01	-
<b>Accessories type</b>									
<b>Type:</b>									
01: Backnut	04: Crimp ring								
02: Cable clamp	05: Band lock								
03: Shrink boot	06: Double cone								
<b>Angle:</b>									
A: Straight									
B: 90° (Type 02 only)									
<b>Shell size:</b>									
08, 10, 12, 14, 16, 18, 20, 22, 24									
<b>Finish:</b>									
Z: Black zinc nickel									
W: Olive green cadmium									
F: Nickel									
A: Black anodized									
<b>Self locking option:</b>									
None									
S: Self locking (available for Types 01 & 02 - mandatory for Type 05)									
<b>Cable entry (Type 05 only):</b>									
01, 02 (02 mandatory for shell size 08 & 10)									
<b>Drain hole option:</b>									
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

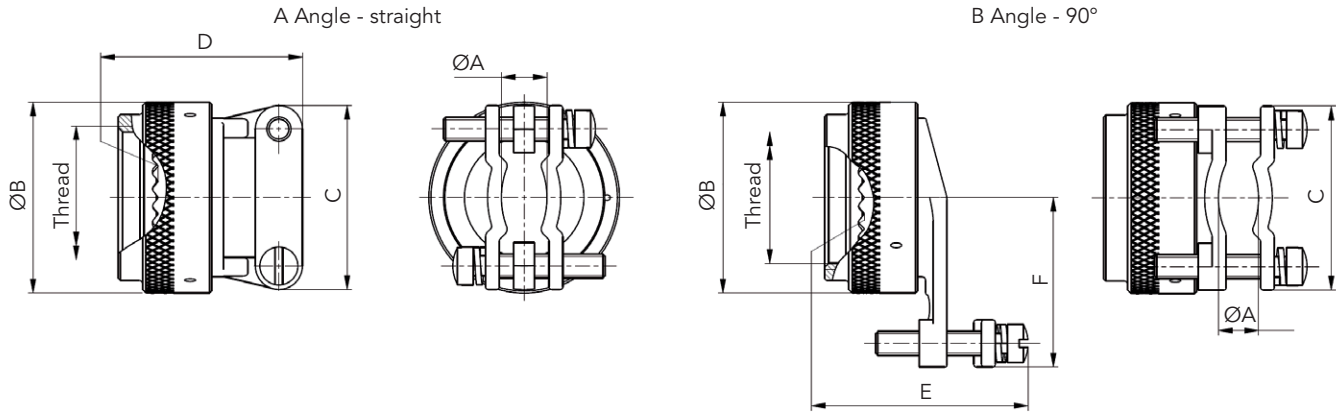
Thread: See page 27 for information.

Note: All dimensions are in millimeters (mm)



## Aluminum backshells

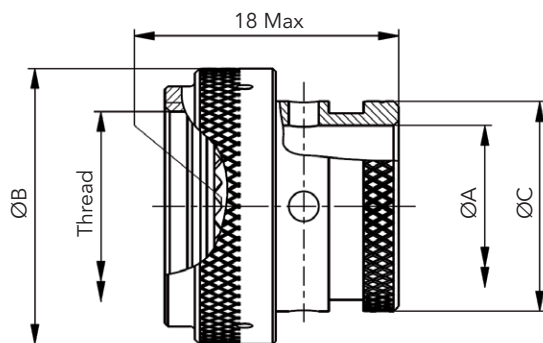
### Aluminum backshell Type 02 - Cable clamp



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



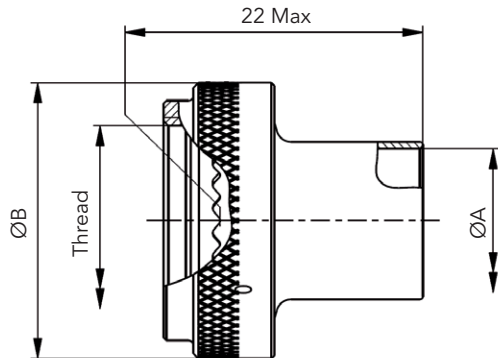
Shell size	ØA Min	ØB Max	C Max
08	6.7	19.0	11.3
10	9.95	21.5	14.9
12	12.85	25.3	17.8
14	16.05	29.1	21.27
16	19.2	31.7	24.3
18	21.5	35.5	26.4
20	24.7	39.3	30.8
22	27.8	41.8	34.1
24	31	46.9	36.6

Thread: See page 27 for information.

Note: All dimensions are in millimeters (mm)

## Aluminum backshells

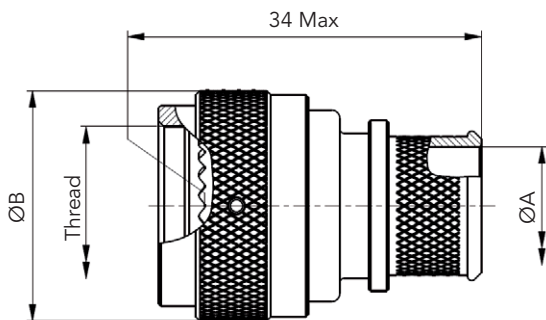
### Aluminum backshell Type 04 - Crimp ring



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

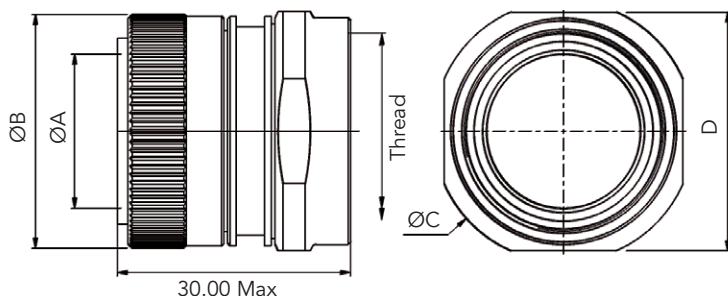


Shell size	ØA Max - Entry size		ØB Max
	01	02	
08	-	6.6	17.9
10	-	8	24.9
12	8	11.2	29.3
14	11.2	14.4	32.4
16	12.8	16	35.6
18	16	19.1	38.4
20	16	20.7	41.6
22	17.6	23.9	44.8
24	19.1	25.5	47.9

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

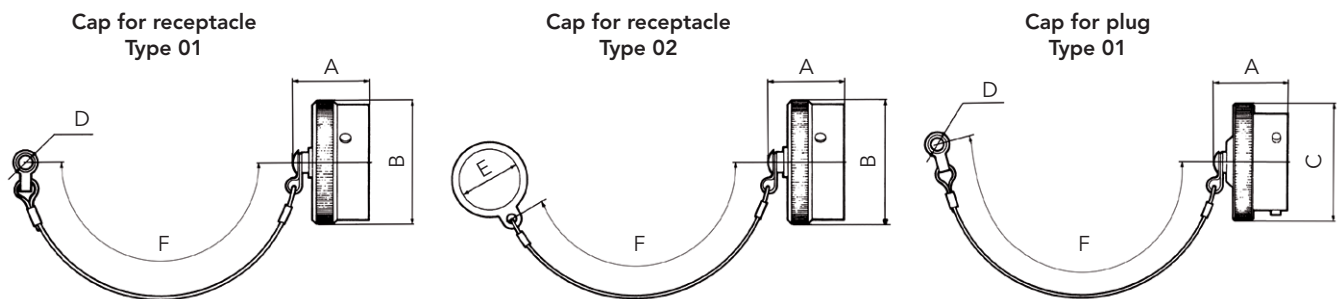
Shell size	UNEF Thread
18	1 1/16 -18 2B
20	1 3/16 -18 2B
22	1 5/16 -18 2B
24	1 7/16 -18 2B

## Aluminum protective caps

### Ordering information

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

### Dimensions



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

# Common Section

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## Contacts

### Crimp contacts

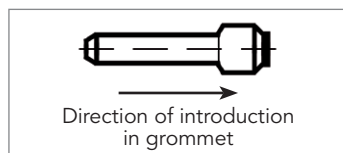
Contact size	Contact type	Ø	Conductor section				External Ø over insulator		SOURIAU Part number without color code	MIL-DTL-38999 contacts	
			AWG		mm <sup>2</sup>		Min	Max		Part number	Color code
			Min	Max	Min	Max					
#22D	Pin	0.76	26	22	0.12	0.38	0.71	1.37	85990702JJ	M39029/58-360	Black/Blue/Orange
	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	Yellow



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

## Tooling

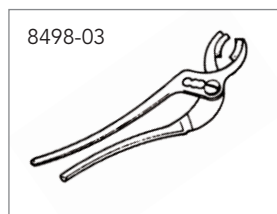
### Insertion and extraction tools

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

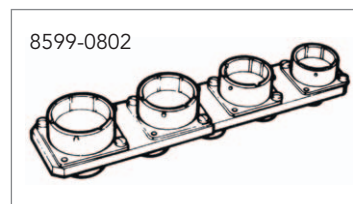
Contact size	Contact type	Wire sizes		Plier M22520/1-01	Plier M22520/2-01 (SOURIAU 8476-01)
		mm <sup>2</sup>	AWG	Turret Part number	Locator Part number
#22D	Pin	0.38 0.21	22 24	-	M22520/2-09
	Socket	0.15 0.095	26 28		M22520/2-06
#20	Pin	0.60 0.38	20 22	M22520/1-04	M22520/2-10
	Socket	0.21	24		
#16	Pin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

### Backshell tightening tools



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

### Tightening support

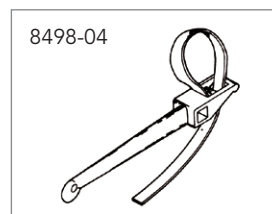


Part number: 8599-0802  
This tool is made up of dummy receptacles housings of all 9 sizes for all key polarisation, and secures free connectors during wiring and fitting of rear accessories.

### Tightening of rear accessories:

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

### Slackening tools

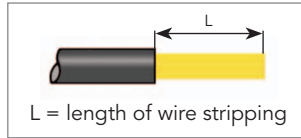


Strap clamp, part number: 8498-04  
Spare strap, part number: 8498-103

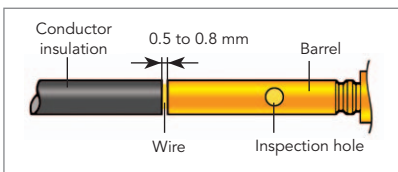
## Wiring instruction

### Cable preparation and wire stripping

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



### Insertion of wire in contact barrel



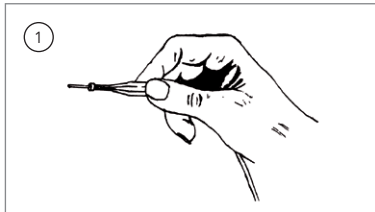
When inserting the stripped wire into the contact barrel check that no strands are left outside and that the wire is visible through the wire inspection hole.

Important:

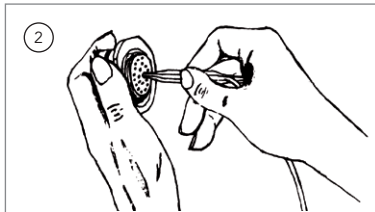
- Slide any accessories over wire strands before carrying out the following operations.
- Contacts are inserted and extracted from the rear of the connector.

### Insertion of the contacts

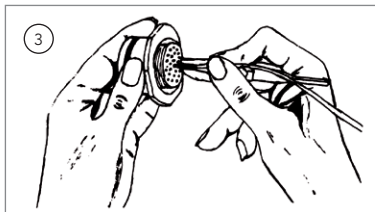
1 - Engage the crimp cable / contact assembly into the longitudinal slot of the plastic tool (coloured tip). Slide the tool down the cable until the tip of the tool abuts the contact retention shoulder.



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

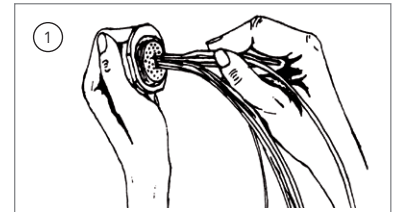


3 - Withdraw the tool from rear. Check that contact is firmly locked by pulling wire gently. When connector is fully loaded, check the position of contact tips. They should all be in the same plane.  
Nota: For larger sizes of cable which are stiff enough manual insertion without tool is preferable.

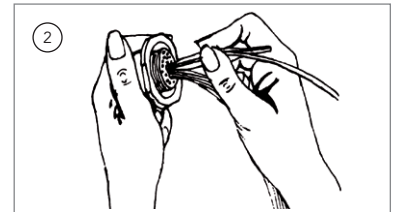


### Extraction of the contacts

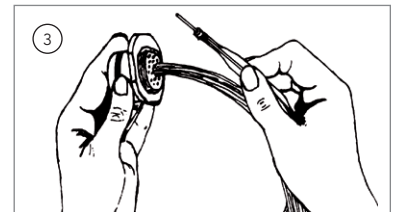
1 - Engage the appropriate cable into the longitudinal slot of the tool with the white tip towards connector.



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

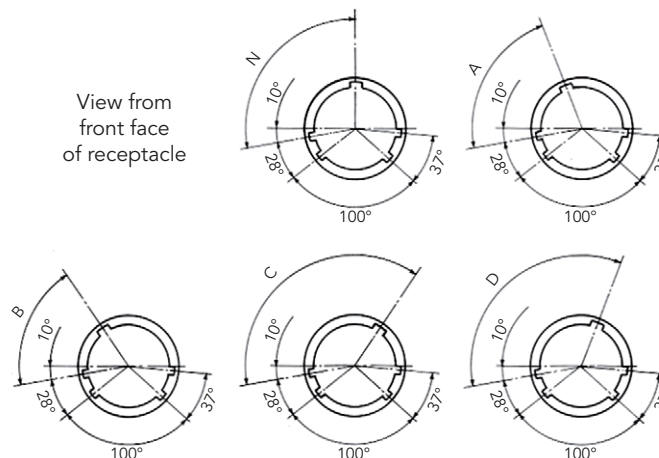
Shell size	Part Numbers	
	For receptacle Type 0	For receptacle Type 7
08	8525 1431	AS3582-022
10	8525 1432	AS3582-024
12	8525 1433	AS3582-026
14	8525 1434	AS3582-028
16	8525 1435	AS3582-029

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

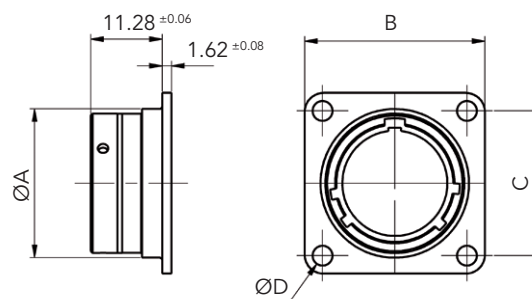
Polarization is determined by the master keyway position. The secondary keyway positions remain fixed.

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



## 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)

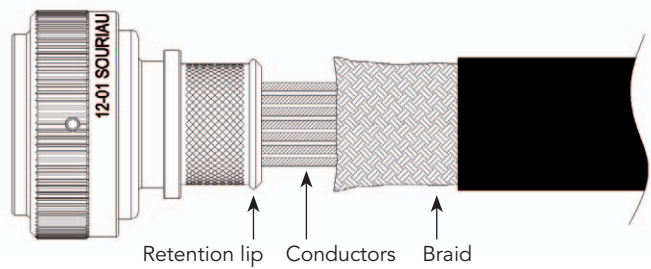
## Backshells assembly

### Band lock Type 05

#### Step 1: Prepare cable braid

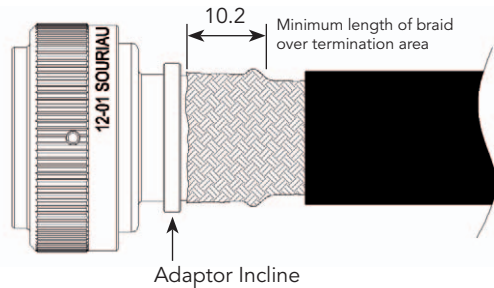
Terminate wires to connector and screw the backshell to connector. Prepare the cable for termination process.

**WARNING !** Banding must occur on an un-fixed 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

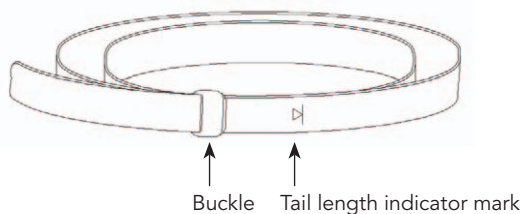
Push the braid over the retention lip to the adaptor incline point or ensuring 10.2mm [0.4"] minimum braid length over termination area. Milk the braid as required to remove the slack and insure a snug fit around the shield termination area.



#### 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).

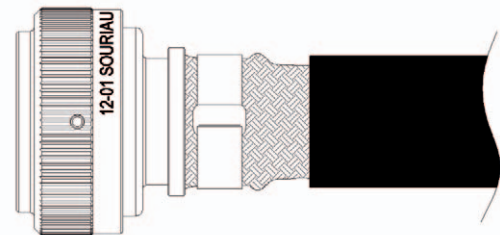
**IMPORTANT !** Operator technique can affect the integrity of the band installation. The operator should use **abbreviated** or **partial** strokes of the pull-up handle as the band is pulling up against the braid. As the band becomes completely tight, apply a full strokes of the pull-up handle to ensure 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.

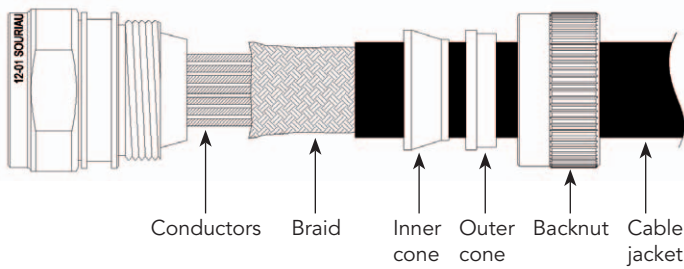


Note: All dimensions are in millimeters (mm)

### Double cone Type 06

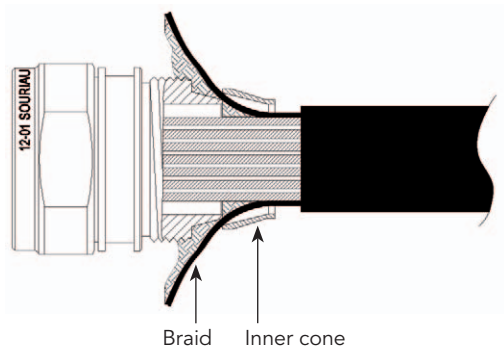
#### Step 1: Prepare cable braid

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

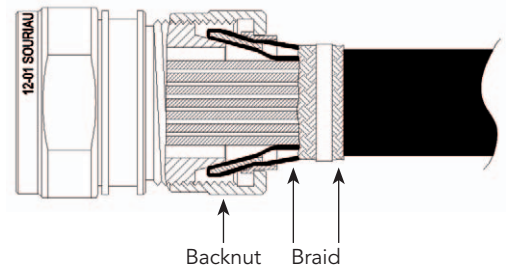
Release the braid and slide the inner cone over the braid.



#### Step 3-a: Double folding

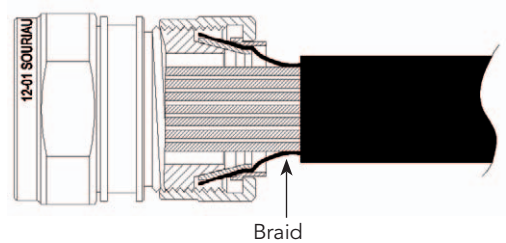
Fold back the braid on the inner cone and fix it with an adhesive tape on to the jacket of the cable. Slide the outer cone over the braid and the inner cone. Screw the backnut at the rear of the backshell and tighten it. Install heat shrinkable boot.

Please refer to Step 3-b for alternate method (Single folding).



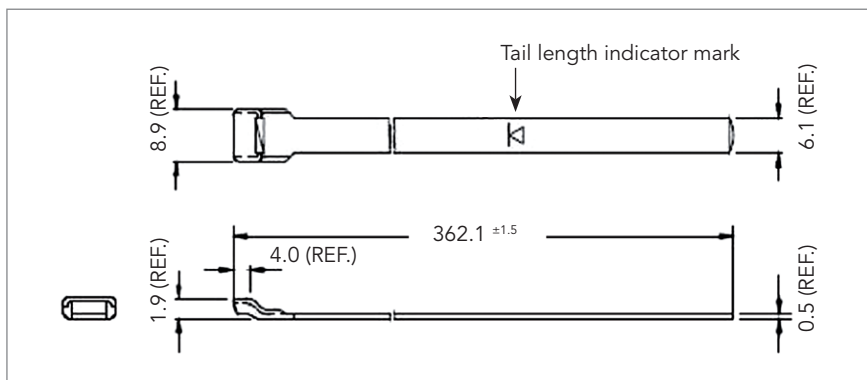
#### Step 3-b: Single folding

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

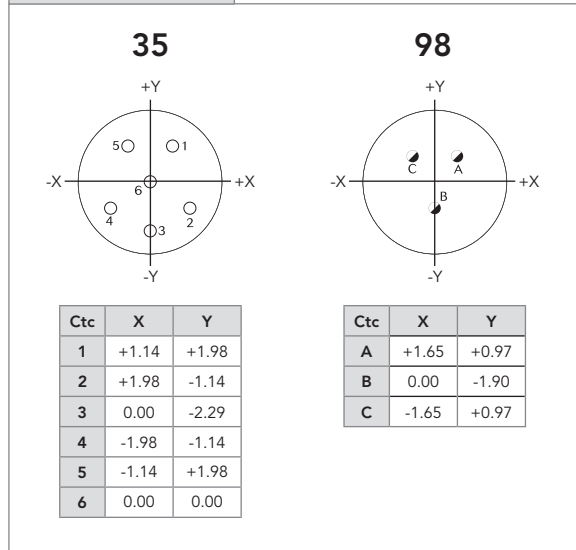


Note: All dimensions are in millimeters (mm)

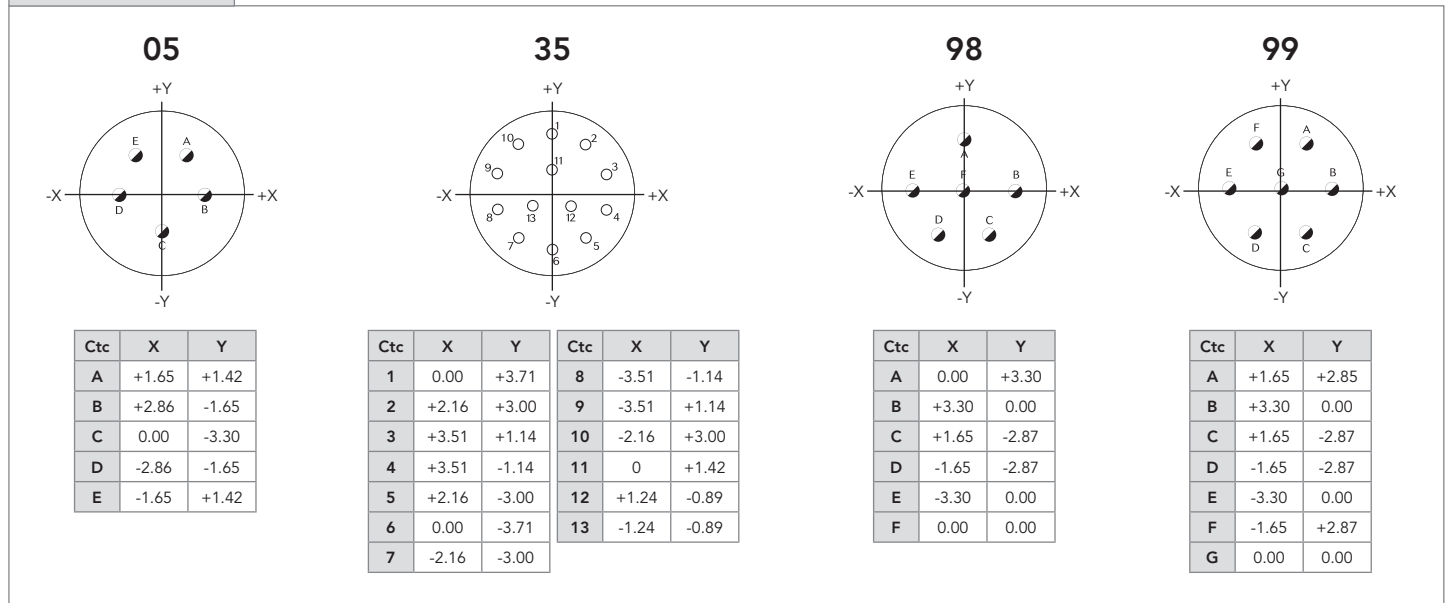
## Coordinates for straight PC tail terminations Viewed from front face of male insulator

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

08

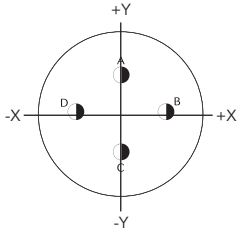


10



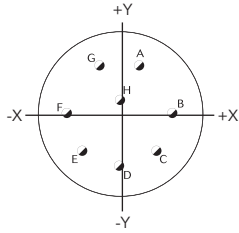
12

04



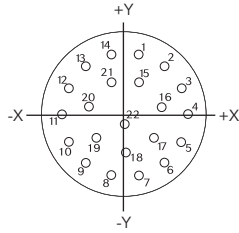
Ctc	X	Y
A	0.00	+3.81
B	+3.71	+0.89
C	0.00	-2.11
D	-3.71	+0.89

08



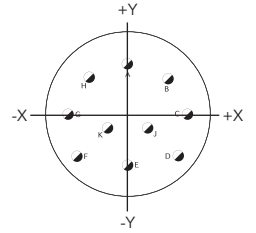
Ctc	X	Y
A	+1.65	+3.99
B	+4.32	0.00
C	+3.05	-3.05
D	0.00	-4.32
E	-3.05	-3.05
F	-4.32	0.00
G	-1.65	+3.99
H	0.00	+1.12

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
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

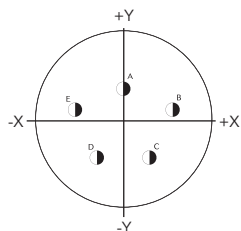
98



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

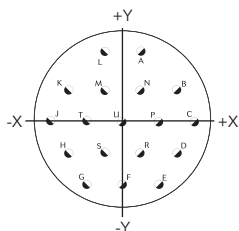
14

05



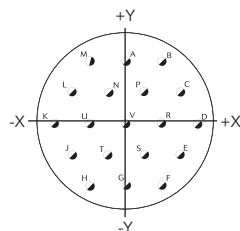
Ctc	X	Y
A	0	+2.54
B	+4.42	+0.61
C	+2.39	+3.76
D	-2.39	-3.76
E	-4.42	+0.61

18



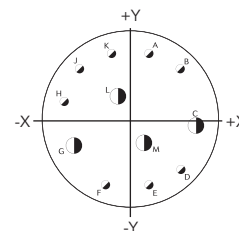
Ctc	X	Y
A	+1.65	+6.40
B	+4.95	+2.87
C	+6.60	0.00
D	+4.95	-2.87
E	+3.30	-5.72
F	0.00	-5.72
G	-3.30	-5.72
H	-4.95	-2.87
J	-6.60	0.00
K	-4.95	+2.87
L	-1.65	+6.40
M	-1.65	+2.87
N	+1.65	+2.87
P	+3.30	0.00
R	+1.65	-2.87
S	-1.65	-2.87
T	-3.30	0.00
U	0.00	0.00

19



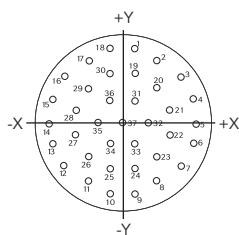
Ctc	X	Y
A	0.00	+5.72
B	+3.30	+5.72
C	+4.95	+2.87
D	+6.60	0.00
E	+4.95	-2.87
F	+3.30	-5.72
G	0.00	-5.72
H	-3.30	-5.72
J	-4.95	-2.87
K	-6.60	0.00
L	-4.95	+2.87
M	-3.30	+5.72
N	-1.65	+2.87
P	+1.65	+2.87
R	+3.30	0.00
S	+1.65	-2.87
T	-1.65	-2.87
U	-3.30	0.00
V	0.00	0.00

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

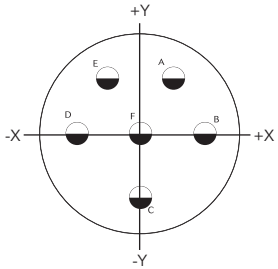
35



Ctc	X	Y	Ctc	X	Y	Ctc	X	Y	Ctc	X	Y	Ctc	X	Y
1	+1.14	+6.65	9	+1.14	-6.65	17	-3.12	+5.51	24	+1.14	-4.37	31	+1.14	+1.88
2	+3.12	+5.51	10	-1.14	-6.65	18	-1.14	+6.65	25	-1.14	-4.37	32	+2.29	-0.10
3	+5.36	+4.06	11	-3.30	-5.89	19	+1.14	+4.37	26	-3.12	-3.23	33	+1.14	-2.08
4	+6.45	+2.03	12	-5.08	-4.45	20	+3.12	+3.02	27	-4.32	-1.27	34	-1.14	-2.08
5	+6.76	-0.25	13	-6.27	-2.49	21	+4.32	+1.02	28	-4.32	+1.02	35	-2.29	-0.10
6	+6.27	-2.49	14	-6.76	-0.25	22	+4.32	-1.27	29	-3.12	+3.02	36	-1.14	+1.88
7	+5.08	-4.45	15	-6.45	+2.03	23	+3.12	-3.23	30	-1.14	+4.37	37	0.00	-0.10
8	+3.30	-5.89	16	-5.36	+4.06									

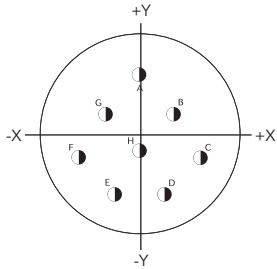
16

06



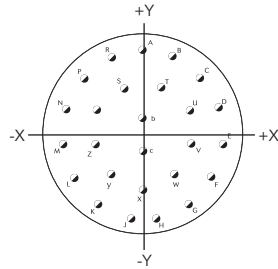
Ctc	X	Y
A	+3.07	+5.31
B	+6.12	0.00
C	0.00	-6.12
D	-6.12	0.00
E	-3.07	+5.31
F	0.00	0.00

08



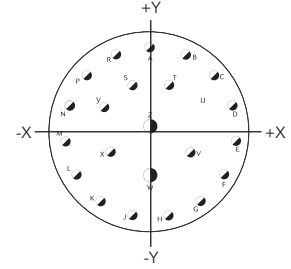
Ctc	X	Y
A	0.00	+5.99
B	+3.25	+2.18
C	+5.84	-1.98
D	+2.39	-5.49
E	-2.39	-5.49
F	-5.84	-1.98
G	-3.25	+2.18
H	0.00	-1.32

26



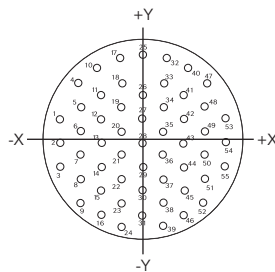
Ctc	X	Y
A	0.00	+8.15
B	+3.33	+7.44
C	+6.07	+5.44
D	+7.75	+2.51
E	+8.10	-0.86
F	+7.06	-4.09
G	+4.80	-6.60
H	+1.70	-7.98
J	-1.70	-7.98
K	-4.80	-6.60
L	-7.06	-4.09
M	-8.10	-0.86
N	-7.75	+2.51
P	-6.07	+5.44
R	-3.33	+7.44
S	-1.78	+4.50
T	+1.78	+4.50
U	+4.45	+2.39
V	+4.53	-0.91
W	+3.02	-3.84
X	0.00	-5.16
Y	-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
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

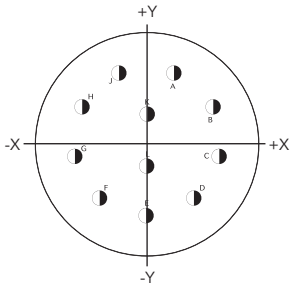
35



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
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
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
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
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

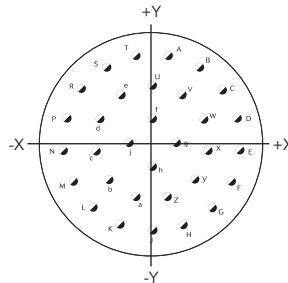
18

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

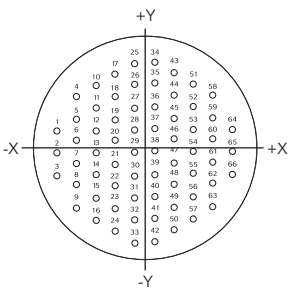
32



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

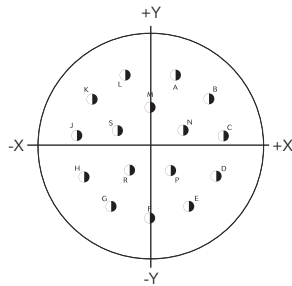
Ctc	X	Y
28	-1.14	+2.29
29	-1.14	0.00
30	-1.14	-2.29
31	-1.14	-4.57
32	-1.14	-6.86
33	-1.14	-9.14
34	+1.14	+9.14
35	+1.14	+6.86
36	+1.14	+4.57
37	+1.14	+2.29
38	+1.14	0.00
39	+1.14	-2.29
40	+1.14	-4.57

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

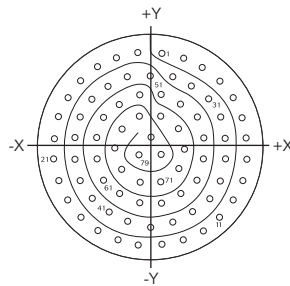


16



Ctc	X	Y	Ctc	X	Y
A	+3.00	+8.18	J	-8.66	+0.91
B	+6.88	+5.36	K	-6.88	+5.36
C	+8.66	+0.91	L	-3.00	+8.18
D	+7.82	-3.81	M	0.00	+4.45
E	+4.62	-7.37	N	+3.91	+1.57
F	0.00	-8.71	P	+2.39	-3.10
G	-4.62	-7.37	R	-2.39	-3.10
H	-7.82	-3.81	S	-3.91	+1.57

35



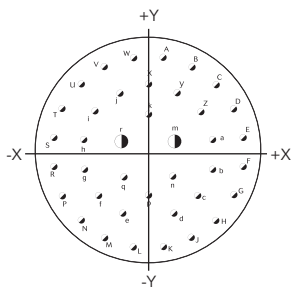
Ctc	X	Y
1	+1.35	+10.82
2	+3.71	+10.26
3	+5.89	+9.19
4	+7.77	+7.67
5	+9.27	+5.77
6	+10.31	+3.58
7	+10.85	+1.22
8	+10.85	-1.22
9	+10.31	-3.58
10	+9.27	-5.77
11	+7.77	-7.67
12	+5.89	-9.19
13	+3.71	-10.26

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

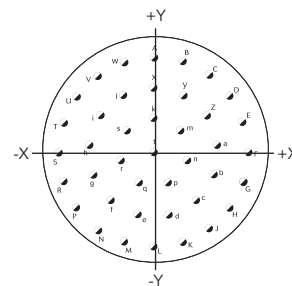
Ctc	X	Y
58	+3.40	-5.05
59	+1.22	-6.12
60	-1.22	-6.12
61	-3.40	-5.05
62	-5.28	-3.53
63	-6.02	-1.22
64	-6.02	+1.22
65	-5.28	+3.53
66	-3.40	+5.05
67	-1.22	+3.71
68	+1.22	+3.71
69	+3.18	+2.29
70	+3.94	0.00
71	+3.18	-2.29
72	+1.22	-3.71
73	-1.22	-3.71
74	-3.18	-2.29
75	-3.94	0.00
76	-3.18	+2.29
77	0.00	+1.35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

39



Ctc	X	Y	Ctc	X	Y	Ctc	X	Y
A	+1.65	+10.44	P	-9.42	-4.80	d	+2.84	-6.73
B	+4.80	+9.42	R	-10.44	-1.65	e	-2.84	-6.73
C	+7.47	+7.47	S	-10.44	+1.65	f	-5.51	-4.80
D	+9.42	+4.80	T	-9.42	+4.80	g	-7.11	-1.88
E	+10.44	+1.65	U	-7.47	+7.47	h	-7.11	+1.45
F	+10.44	-1.65	V	-4.80	+9.42	i	-5.89	+4.55
G	+9.42	-4.80	W	-1.65	+10.44	j	-3.20	+6.50
H	+7.47	-7.47	X	0.00	+7.49	k	0.00	+4.17
J	+4.80	-9.42	Y	+3.20	+6.50	m	+2.90	+1.22
K	+1.65	-10.44	Z	+5.89	+4.55	n	+2.69	-2.72
L	-1.65	-10.44	a	+7.11	+1.45	p	0.00	-4.80
M	-4.80	-9.42	b	+7.11	-1.88	q	-2.69	-2.72
N	-7.47	-7.47	c	+5.51	-4.80	r	-2.90	+1.22

41

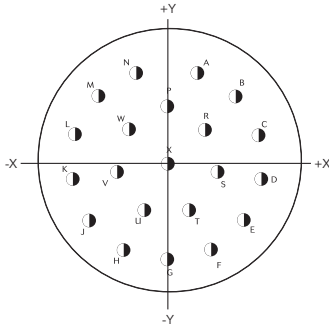


Ctc	X	Y	Ctc	X	Y
A	0.00	+10.60	M	-3.26	-10.09
B	+3.28	+10.09	N	-6.23	-8.58
C	+6.23	+8.58	P	-8.58	-6.23
D	+8.58	+6.23	R	-10.09	-3.28
E	+10.09	+3.28	S	-10.60	0.00
F	+10.60	0.00	T	-10.09	+3.28
G	+10.09	-3.28	U	-8.58	+6.23
H	+8.58	-6.23	V	-6.23	+8.58
J	+6.23	-8.58	W	-3.28	+10.09
K	+3.28	-10.09	X	0.00	+7.20
L	0.00	-10.60	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

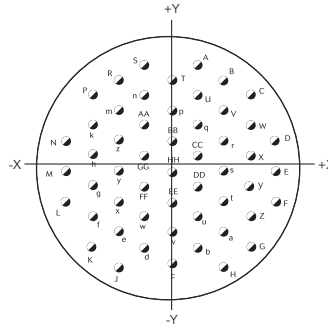
22

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



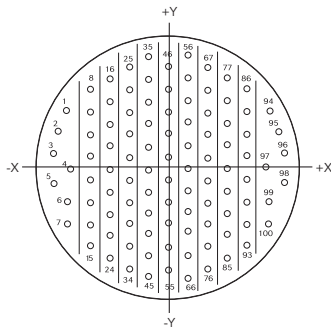
Ctc	X	Y
N	-11.43	+3.30
P	-8.53	+8.26
R	-5.72	+9.91
S	-2.84	+11.56
T	0.00	+9.91
U	+2.84	+8.26
V	+5.72	+6.60
W	+8.53	+4.95
X	+8.53	+1.65
Y	+8.53	-1.65
Z	+8.53	-4.95
a	+5.72	-6.60
b	+2.84	-8.26
c	0.00	-9.91
d	-2.84	-8.26
e	-5.72	-6.60
f	-8.53	-4.95
g	-8.53	-1.65
h	-8.53	+1.65
k	-8.53	+4.95

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

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

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

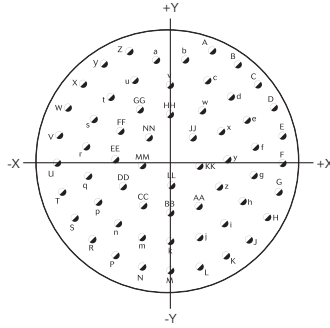
Ctc	X	Y
41	-2.11	-2.41
42	-2.11	-4.83
43	-2.11	-7.24
44	-2.11	-9.65
45	-2.11	-12.07
46	0.00	+10.87
47	0.00	+8.46
48	0.00	+6.05
49	0.00	+3.63
50	0.00	+1.22
51	0.00	-1.19
52	0.00	-3.61
53	0.00	-6.02
54	0.00	-8.43
55	0.00	-10.85
56	+2.11	+12.07
57	+2.11	+9.65
58	+2.11	+7.24
59	+2.11	+4.83
60	+2.11	+2.41

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



61



Ctc	X	Y	Ctc	X	Y	Ctc	X	Y	Ctc	X	Y	Ctc	X	Y
A	+4.98	+12.70	P	-6.58	-11.94	c	+4.39	+9.22	q	-9.96	-2.24	CC	-3.33	-5.92
B	+7.98	+11.05	R	-9.35	-9.93	d	+7.24	+7.19	r	-10.13	+1.17	DD	-5.79	-3.53
C	+10.49	+8.71	S	-11.53	-7.29	e	+9.19	+4.45	s	-9.19	+4.45	EE	-6.78	-0.25
D	+12.32	+5.84	T	-12.98	-4.17	f	+10.13	+1.17	t	-7.24	+7.19	FF	-6.02	+3.10
E	+13.39	+2.57	U	-13.61	-0.76	g	+9.96	-2.24	u	-4.39	+9.22	GG	-3.73	+5.66
F	+13.61	-0.76	V	-13.39	+2.57	h	+8.66	-5.41	v	0.00	+8.59	HH	0.00	+5.08
G	+12.98	-4.17	W	-12.32	+5.84	i	+6.38	-7.98	w	+3.73	+5.66	JJ	+2.67	+2.39
H	+11.53	-7.29	X	-10.49	+8.71	j	+3.38	-9.63	x	+6.02	+3.10	KK	+3.43	-1.04
J	+9.35	-9.93	Y	-7.98	-11.05	k	0.00	-10.21	y	+6.78	-0.25	LL	0.00	-3.35
K	+6.58	-11.94	Z	-4.98	+12.10	m	-3.38	-9.63	z	+5.79	-3.53	MM	-3.43	-1.04
L	+3.40	-13.18	a	-1.73	+11.53	n	-6.38	-7.98	AA	+3.33	-5.92	NN	-2.67	+2.39
M	0.00	-13.64	b	+1.73	+11.53	p	-8.66	-5.41	BB	0.00	-6.78	PP	0.00	0.00
N	-3.40	-13.18												

### 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

8T Series

# Range Extension

■ Box mount interconnect solutions .....	48
■ Rack and panel .....	48
■ <i>microComp</i> ® 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](http://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](http://www.souriau.com)



## Product range extension

### microComp® 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 «microComp® Series - Miniature High Density» datasheet on [www.souriau.com](http://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:**

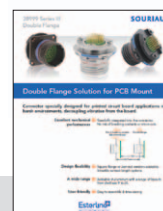
- . Square flange or Jam nut versions available.
- . Versatile contact length options.

**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](http://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](http://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](http://www.souriau.com)



# Reliable People, Reliable Solutions



Your local contact



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