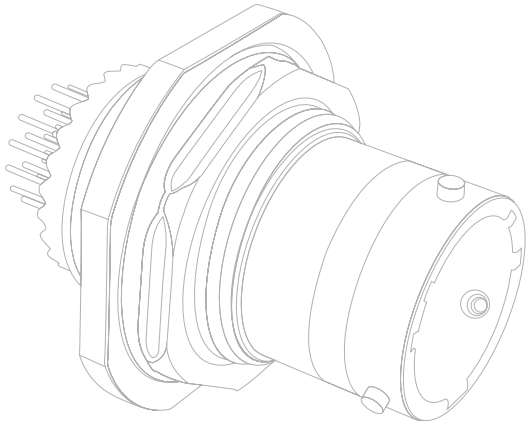
VG96912 and JN1003 bayonet connectors
Souriau 8ST series

Powering Business Worldwide



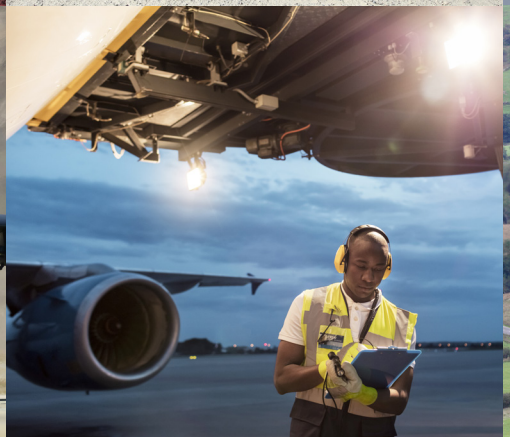
Souriau 8ST

VG96912 and JN1003

Typical applications





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Souriau 8ST series

Technical specifications

Description

- High density connector with 1 to 128 contacts designed for military and aerospace applications
- Contact sizes #22D, #20, #16, #12, #16 coax, #8 concentric twinax (triax), #8 and #4 power
- Bayonet locking system
- MIL-DTL-38999 Series I contact layouts
- 100% Scoop-proof
- EMI/RFI shielding and shell-to-shell continuity
- Standards: JN 1003, VG 96912, pr EN 3372, EFA J 62-017

Mechanical

Shell
Aluminum alloy

Plating
- Black zinc nickel (Z)
- Olive green cadmium (G)
- Olive green cadmium, spec. 034 (B)
- Nickel (F)
- Gray tin-zinc (with black coupling nut for plug) (SZ)

Insulator
Thermoplastic or metallic version available for specification 284 & 384

Grommet or seal
Liquid silicone rubber or fluorocarbon elastomer for specification 022

Contact
Copper alloy

Plating contact
Gold over nickel

Endurance
500 mating/unmating operations

Shock
300 g during 3 ms and according to MIL S 901 grade A

Vibration
147 m/s², 10 to 2000 Hz

Contact retention (min force in N)

Contacts size	22	20	16	12	8	4
Min force in N	45	67	111	111	110	200

Electrical

Test voltage (Vrms)

Service	sea level	at 21000 m
R	400	N/A
M	1 300	800
N	1 000	600
I	1 800	1 000
II	2 300	1 000

Insulation resistance
≥ 5 000 MW at 500 VAC

Contact resistance

Contacts size	26	22	20	16	12	8	4
Resistance mΩ	16	14.6	7.3	3.8	3.5	3	2

Contact rating

Contacts size	26	22	20	16	12	8	4
Rating (A)	3	5	7.5	13	23	45	80

Shell continuity
- Black zinc nickel: 2.5 mΩ
- Olive green plating: 2.5 mΩ
- Nickel plating: 1 mΩ
- Tin-zinc plating: 2.5mΩ

Shielding
70 db at 0.01 to 100 MHz

Electrical continuity between contact and shell for specification 284 & 384: 10 mΩ max

Environmental

Temperature range
- Black zinc nickel plating (Z)
  - 65°C to +175°C
- Olive green cadmium plating (B or G)
  - 65°C to +175°C
- Nickel plating (F)
  - 65°C to +200°C
- Tin-zinc plating (SZ)
  - 65°C to +175°C

Sealing, mated connectors
Differential pressure 1 bar
leakage ≤16 cm3/h

Salt spray
- MIL STD 1344 method 1001:
  - 500 hours (plating SZ, B, G and Z)
  - 48 hours (plating F)
- NFC 93422:
  - 48 hours (plating F)

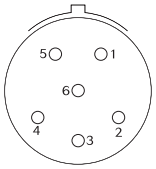
Resistance to fluids
- According to MIL-DTL-38999:
  - MIL-L-7808
  - MIL-L-23699
  - MIL-H-5606
  - MIL-A-8243
  - MIL-C-87936
  - MIL-T-5624
    (JP5), hydraulic fluids, solvents
- Specification 022 for fuel immersion

Contact layouts

Contact #26 & #22D
Contact #20
Contact #16
Contact #12
Contact #10
Contact #8
Contact #8 Power
Contact #8 Quadrax
Contact #4 Power

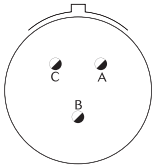
08

35



6#22D
Service M

98



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Service I

10

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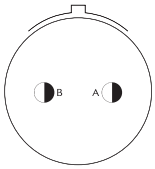

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Service I

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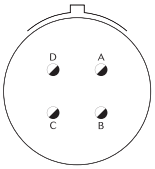

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Service I

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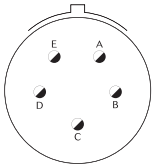

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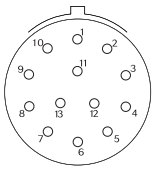

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Service M

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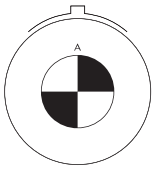
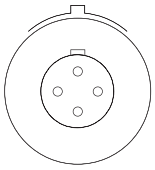


1#8
Concentric
Twinax
Service I

81



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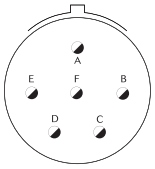

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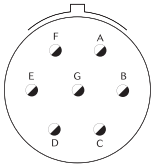

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Service I

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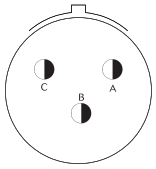

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Service I

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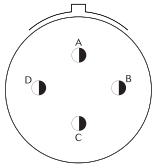

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Service I

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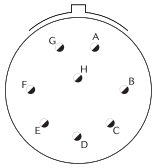

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Service I

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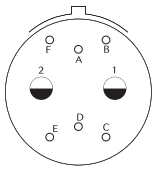

2#12
6#22D
Service M

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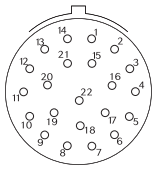

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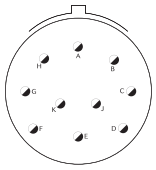


10#20
Service I

Ethernet Quadrax

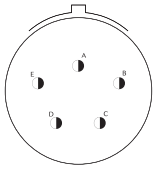
Note: Concentric Twinax = Triax

Souriau 8ST series

Contact layouts

Contact #26 & #22D
Contact #20
Contact #16
Contact #12
Contact #10
Contact #8
Contact #8 Power
Contact #8 Quadrax
Contact #4 Power

14

05

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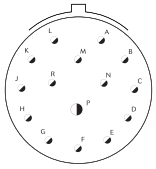
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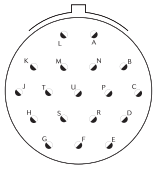
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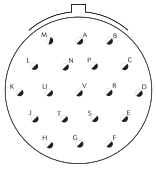
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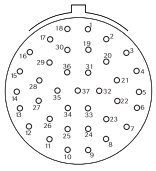
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Service M

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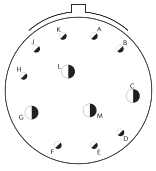
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8#20
Service I

16

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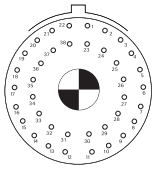
38#22D
1#8 Concentric
Twinax
Service M

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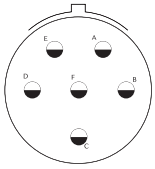
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Service I

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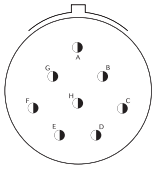
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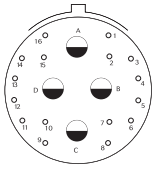
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16#22D
Service M

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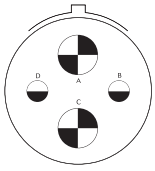
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2#8 Concentric
Twinax
Service M

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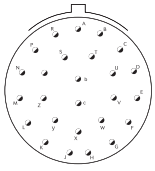
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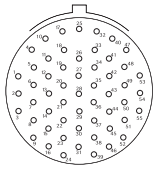
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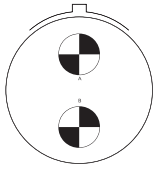
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Twinax
Service M

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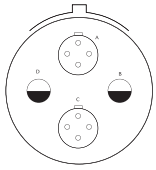
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2#8 Quadrax

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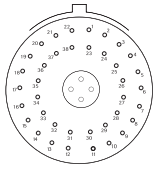
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1#8 Quadrax

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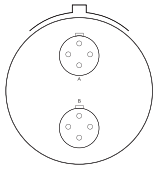
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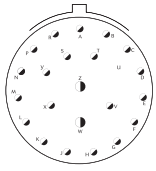
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21#20
Service I

18

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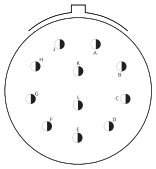
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Service II

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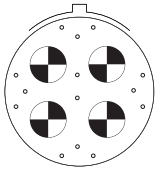
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4#8
Concentric
Twinax
Service M

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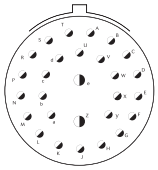
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Service I

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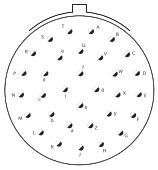
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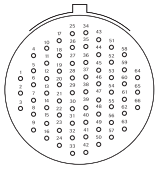
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Service M

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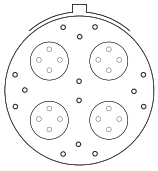

14#22D
4#8 Quadrax

Ethernet Quadrax

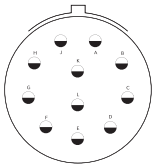
* Available by request

Note: Concentric Twinax = Triax

Contact layouts

Contact #26 & #22D
Contact #20
Contact #16
Contact #12
Contact #10
Contact #8
Contact #8 Power
Contact #8 Quadrax
Contact #4 Power

20

11

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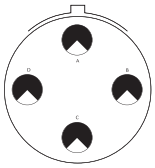
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Service I

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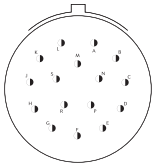
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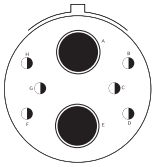
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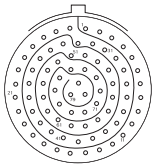
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Service M

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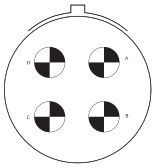
4#8 Concentric
Twinax
Service M

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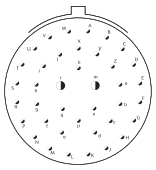
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37#20
Service I

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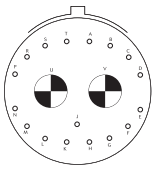
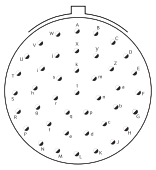
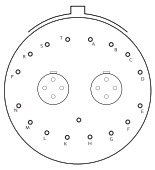
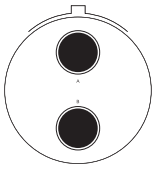
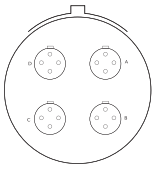

17#22D
2#8 Concentric
Twinax
Service M

41

41#20
Service I

78

17#22D
2#8 Quadrax

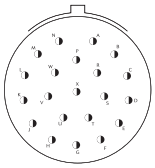
42

2#4 Power
Service I

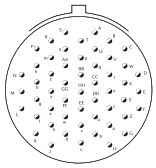
84

4#8 Quadrax

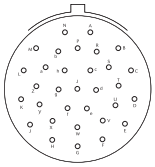
Ethernet Quadrax

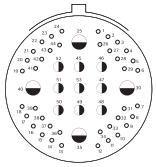
Note: Concentric Twinax = Triax

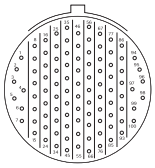
22

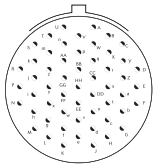
21

21#16
Service II

53

53#20
Service I

32

32#20
Service I

54

4#12, 9#16
40#22D
Service M

35

100#22D
Service M

55

55#20
Service I

Souriau 8ST series

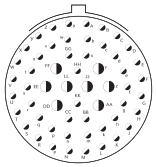
Contact layouts

Contact layouts

Contact #26 & #22D
Contact #20
Contact #16
Contact #12
Contact #10
Contact #8
Contact #8 Power
Contact #8 Quadrax
Contact #4 Power

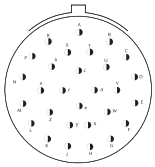
24

04



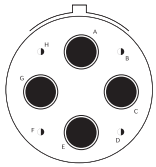
8#16
48#20
Service I

29



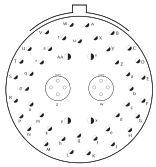
29#16
Service I

44



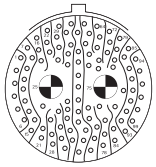
4#4 Power
4#16
Service I

86



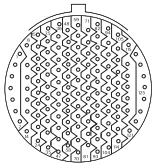
40#20
4#16
2#8 Quadrax

07



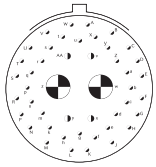
97#22D
2#8 Concentric
Twinax
Service M

35



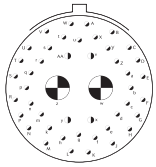
128#22D
Service M

46



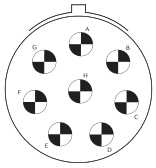
40#20, 4#16
2#8 Coax
Service I

90



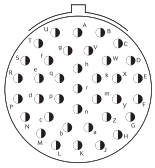
40#20, 4#16
2#8
Concentric
Twinax
Service I

08*



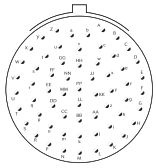
8#8 Concentric
Twinax
Service M

37



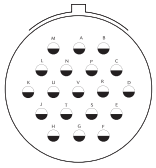
37#16
Service I

61



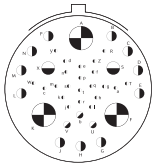
61#20
Service I

19



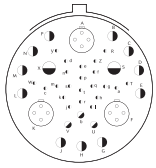
19#12
Service I

41



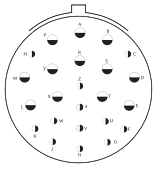
22#22D, 3#20
11#16, 2#12
3#8 Concentric
Twinax
Service M

81



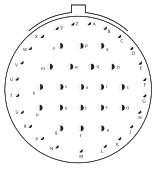
22#22D
3#20, 11#16
2#12
3#8 Quadrax

24



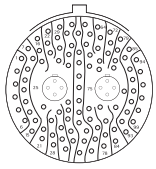
12#16
12#12
Service I

43



23#20
20#16
Service I

82



97#22D
2#8 Quadrax

Ethernet Quadrax

* Available by request

Note: Concentric Twinax = Triax

Contact layouts (matrix)

Shell Size	Layout	Service	8ST	VG96912	JN1003 8ST2*034	JN1003 Other P/N	Nber of Contacts	#26	#22D	#20	#16	#12	#10	# 8	#4 Power
08	08-35	M	OK	Q	Q	Q	6		6						
	08-98	I	OK		Q	Q	3			3					
10	10-02	I	OK			Q	2				2				
	10-04	I	OK				4			4					
	10-05	I	OK				5			5					
	10-35	M	OK	Q	Q	Q	13		13						
	10-80	I	OK			Q	1							1 Twx	
	10-81	-	OK				1							1 Qdx	
	10-98	I	OK	Q	Q	Q	6			6					
	10-99	I	OK				7			7					
12	12-03	I	OK				3				3				
	12-04	I	OK			Q	4				4				
	12-08	I	OK				8			8					
	12-26	M	OK				8		6			2			
	12-35	M	OK	Q	Q	Q	22		22						
	12-98	I	OK	Q	Q	Q	10			10					
14	14-05	II	OK	Q			5				5				
	14-15	I	OK				15			14	1				
	14-18	I	OK				18			18					
	14-19	I	OK	Q	Q	Q	19			19					
	14-35	M	OK	Q	Q	Q	37		37						
	14-97	I	OK	Q	Q	Q	12			8	4				
16	16-02	M	OK				39		38					1 Twx	
	16-06	I	OK	Q		Q	6					6			
	16-08	II	OK	Q		Q	8				8				
	16-20	M	OK				20		16			4			
	16-22	M	OK				4					2		2 Twx	
	16-26	I	OK	Q		Q	26			26					
	16-35	M	OK	Q	Q	Q	55		55						
	16-75	M	OK				2							2 Twx	
	16-80	-	OK				4					2		2 Qdx	
	16-81	-	OK				39		38					1 Qdx	
	16-82	-	OK				2							2 Qdx	
	16-99	I	OK	Q			23			21	2				
18	18-11	II	OK	Q		Q	11				11				
	18-18	M	OK				18		14					4 Twx	
	18-28	I	OK				28			26	2				
	18-32	I	OK	Q		Q	32			32					
	18-35	M	OK	Q	Q	Q	66		66						
	18-84	-	OK				18		14					4 Qdx	

OK Souriau's layout
Q Qualified layout according corresponding norm
#8 Qdx: Quadrax; Twx: Concentric Twinax

Souriau 8ST series

Contact layouts

Contact layouts (matrix)

Shell Size	Layout	Service	8ST	JN1003			Nber of Contacts	#26	#22D	#20	#16	#12	#10	# 8	#4 Power
				VG96912	8ST2*034	Other P/N									
20	20-11	I	OK			Q	11					11			
	20-16	II	OK	Q	Q	Q	16				16				
	20-35	M	OK	Q	Q	Q	79		79						
	20-39	I	OK				39			37	2				
	20-41	I	OK	Q		Q	41			41					
	20-42	I	OK				2								2
	20-48	I	OK				4							4 Pow	
	20-72	I	OK				8				6				2
	20-75	-	OK			Q	4							4 Twx	
	20-77	M	OK				19		17					2 Twx	
	20-78	-	OK				19		17					2 Qdx	
	20-84	-	OK				4							4 Qdx	
22	22-21	II	OK	Q		Q	21				21				
	22-32	I	OK				32			32					
	22-35	M	OK	Q	Q	Q	100		100						
	22-53	I	OK			Q	53			53					
	22-54	M	OK				53		40		9	4			
	22-55	I	OK				55			55					
24	24-04	I	OK				56			48	8				
	24-07	M	OK				99		97					2 Twx	
	24-08	-	OK				8							8 Twx	
	24-19	I	OK	Q		Q	19					19			
	24-24	II	OK				24				12	12			
	24-29	I	OK				29				29				
	24-35	M	OK	Q	Q	Q	128		128						
	24-37	I	OK				37				37				
	24-41	N	OK				41		22	3	11	2		3 Twx	
	24-43	I	OK				43			23	20				
	24-44	I	OK				8				4				4
	24-46	I	OK				46			40	4			2 Coax	
	24-61	I	OK	Q		Q	61			61					
	24-81	N	OK				41		22	3	11	2		3 Qdx	
	24-82	M	OK				99		97					2 Qdx	
	24-86	I	OK				46			40	4			2 Qdx	
	24-90	I	OK				46			40	4			2 Twx	

OK Souriau's layout
Q Qualified layout according corresponding norm
#8 Pow: Power; Qdx: Quadrax; Twx: Concentric Twinax

Cross reference list

VG: approval n°307/84
Pr EN3372
JN1003 qualified

	Souriau	VG96912	EN3372*	JN1003 (EFA)*	Designation
Connectors	8ST0••G••P/SN	VG96912A••••P/SN	-	-	Square flange receptacle
	8ST0••SZ••P/SN	VG96912A••••P/SNJ	-	-	
	8ST0••F/B••P/SN	-	EN3372F/W0••N••P/SN	-	
	8ST0••B••P/SN034	-	-	JN1003B••••P/SN1	
	8ST0••B••A/BN034	-	-	JN1003B••••P/SN	
	8ST1••F/G••P/SN	-	-	-	In line receptacle
	8ST2••B••P/SN034	-	-	JN1003H••••P/SN1	Mounting box reeptacle
	8ST2••F••A/BN034	-	-	JN1003H••••P/SN	
	8ST5••G••P/SN	VG96912D••••P/SN	-	-	Plug with EMI/RFI shielding
	8ST5••SZ••P/SNC	VG96912D••••P/SNJ	-	-	
	8ST5••F/B••P/SN	-	EN3372F/W6••N••P/SN		
	8ST5••B••P/SN034	-	-	JN1003FG••••P/SN1	
	8ST5••B••A/BN034	-	-	JN1003FG••••P/SN	
	8ST6••G••P/SN	VG96912E••••P/SN	-	-	Plug without EMI/RFI shielding
	8ST6••SZ••P/SNC	VG96912E••••P/SNJ	-	-	
	8ST6••F/B••P/SN	-	-	-	
	8ST7••G••P/SN	VG96912B••••P/SN			Jam nut receptacle
	8ST7••SZ••P/SNC	VG96912B••••P/SNJ			
	8ST7••F/B••P/SN		EN3372F/W7••N••P/SN		
	8ST7••B••P/SN034			JN1003A••••P/SN1	
	8ST7••F/B••A/BN034			JN1003A••••P/SN	

	Souriau	VG96912	EN3372*	JN1003 (EFA)*	Designation
Connectors	8599-0702 JJ	VG96912P22 D	Separate EN standard in progress	-	Crimp male contact #22D
	8599-0703 SA	VG96912P20		-	Crimp male contact #20
	8599-0704 MJ	VG96912P16		-	Crimp male contact #16
	8599-0705 MJ	VG96912P12		-	Crimp male contact #12
	8599-0706 900	VG96912S22D1	Separate EN standard in progress	-	Crimp female contact #22D
	8599-0707-900	VG96912S201		-	Crimp female contact #20
	8599-0708-900	VG96912S161		-	Crimp female contact #16
	8599-0709-900	VG96912S121		-	Crimp female contact #12
	M39029/58-360	-	-	JN1003P22D	Crimp male contact #22D
	M39029/58-363	-	-	JN1003P20	Crimp male contact #20
	M39029/58-364	-	-	JN1003P16	Crimp male contact #16
	M39029/58-365	-	-	JN1003P12	Crimp male contact #12
	M39029/56-348	-	-	JN1003S22D	Crimp female contact #22D
	M39029/56-351	-	-	JN1003S20	Crimp female contact #20
	M39029/56-352	-	-	JN1003S16	Crimp female contact #16
	M39029/56-353	-	-	JN1003S12	Crimp female contact #12

VG: approval n°307/84
Pr EN3372
JN1003: full qualification in process

	Souriau	VG96912	EN 3372*	JN1003 (EFA)*	Designation
Backshells	8LST101B57 (shell size 08)	VG96912L08	Separate EN standard in progress		Endbell for shielding braids
	8LST102B57 (shell size 10)	VG96912L10			
	8LST103B57 (shell size 12)	VG96912L12			
	8LST104B57 (shell size 14)	VG96912L14			
	8LST105B57 (shell size 16)	VG96912L16			
	8LST106B57 (shell size 18)	VG96912L18			
	8LST107B57 (shell size 20)	VG96912L20			
	8LST108B57 (shell size 22)	VG96912L22			
	8LST109B57 (shell size 24)	VG96912L24			

* Please contact us, our product will be evaluated against the final drafts/standards when available.

Ordering information

Souriau part numbers

8ST 0 - 10 G 35 P N -

Basic series

Shell style
- **0:** Square flange receptacle
- **1:** In line receptacle
- **2:** Square flange receptacle, not accepting backshell
- **3:** Square flange receptacle, rear mounting
- **5:** Plug with RFI/EMI shielding
- **6:** Plug without RFI/EMI shielding
- **7:** Jam nut receptacle

Type:
- **-:** Connector with standard crimp contacts
- **L:** Connector with long PC tail contacts
- **M:** Connector with medium PC tail contacts
- **C:** Connector with short PC tail contacts

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

Plating
- **Z:** Black zinc nickel
- **F:** Nickel
- **G:** Olive green cadmium
- **B:** Olive green cadmium - spec. 034 mandatory, see specification below
- **SZ:** Gray tin-zinc (with black coupling nut for plug)

Contact layout
See **Pages 5 to 10**

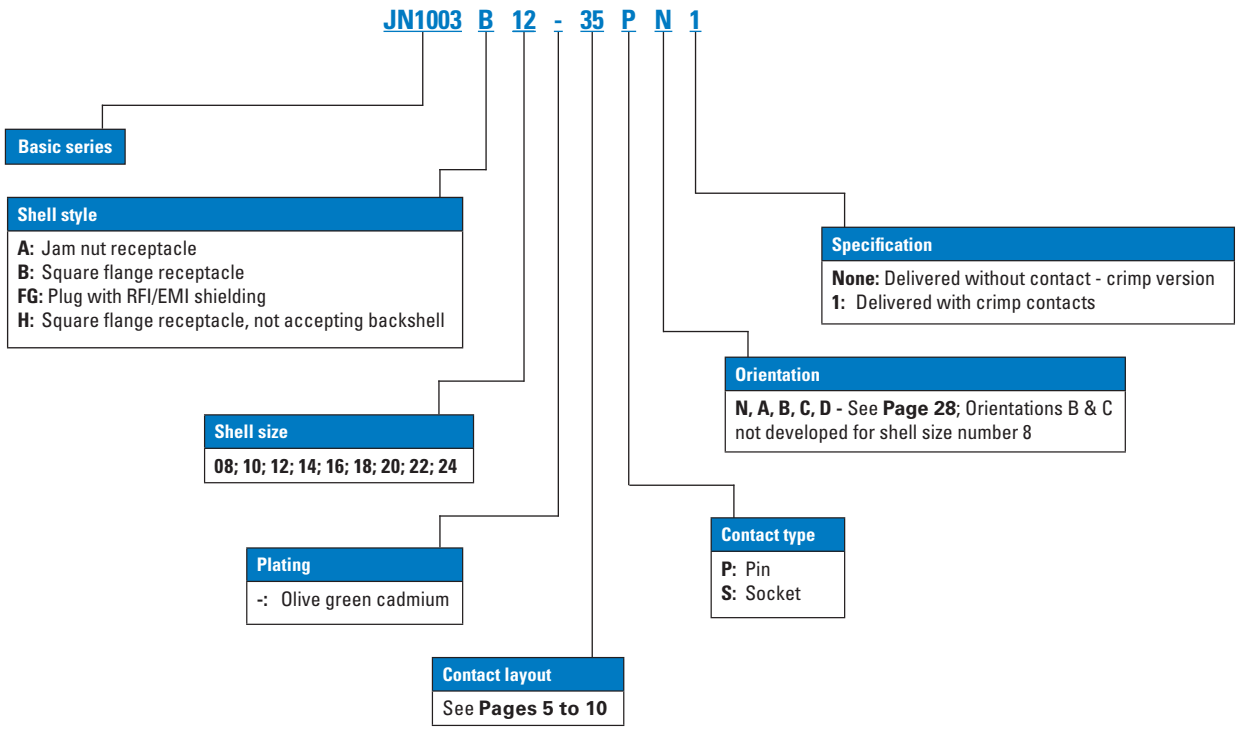
Contact type
- **P:** Pin
- **S:** Socket
- **A:** Connector supplied without pin contact
- **B:** Connector supplied without socket contact

Orientation
N, A, B, C, D - See **Page 28**; Orientations B & C not developed for shell size number 8

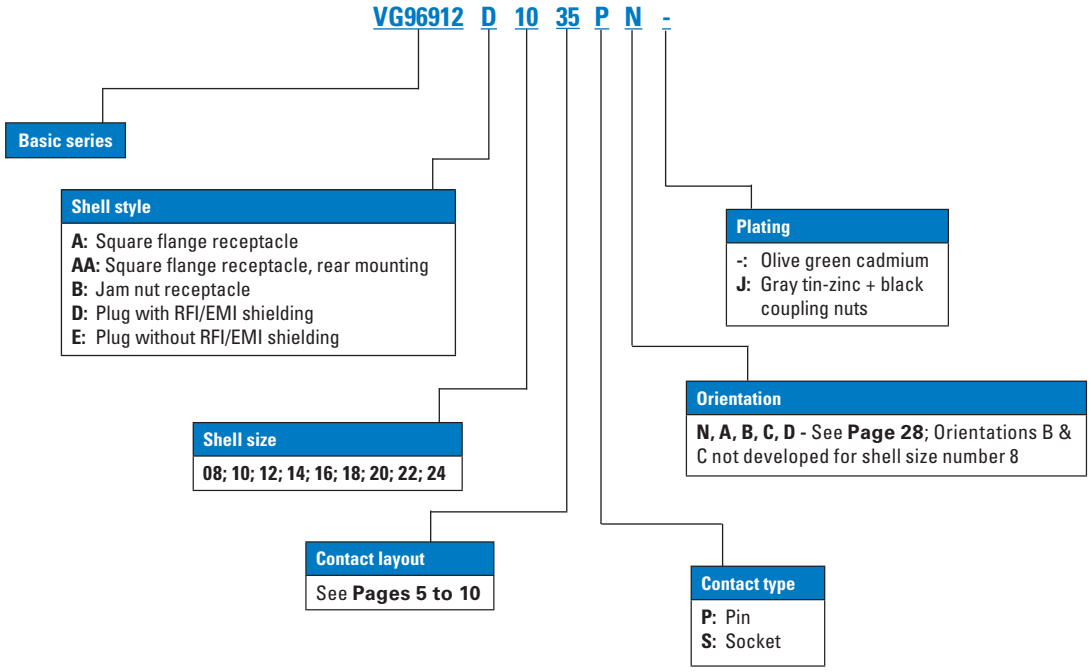
Specification
- **None:** Supplied with contact
- **034:** As per JN1003 Standard - B type plating only
- **046:** PC Tail contact with tinned plating
- **251:** Connector provided with #8 power contacts
- **022:** Fuel tank - Please consult us

Note: For #8 Quadrax contact specification, please consult us

JN1003 part numbers



VG96912 part numbers

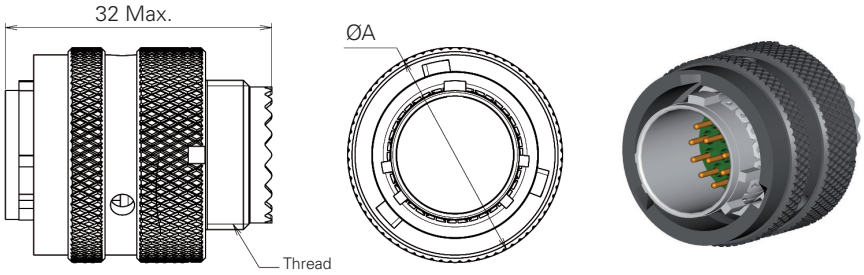


Souriau 8ST series

Dimensions

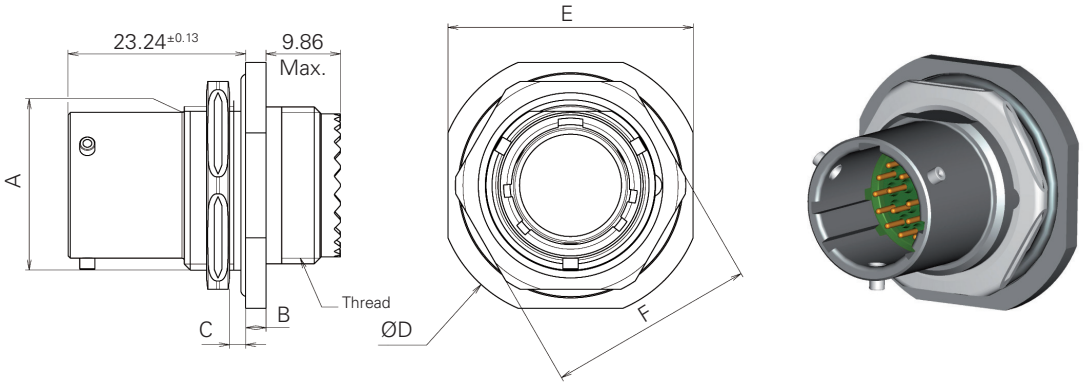
Dimensions

Types 5 & 6 - Plug



Shell size	A	Thread
08	19	7/16-28 UNEF 2A
10	22	9/16-24 UNEF 2A
12	26	11/16-24 UNEF 2A
14	29	13/16-20 UNEF 2A
16	33	15/16-20 UNEF 2A
18	36	1"1/16-18 UNEF 2A
20	39	1"3/16-18 UNEF 2A
22	44	1"5/16-18 UNEF 2A
24	46	1"7/16-18 UNEF 2A

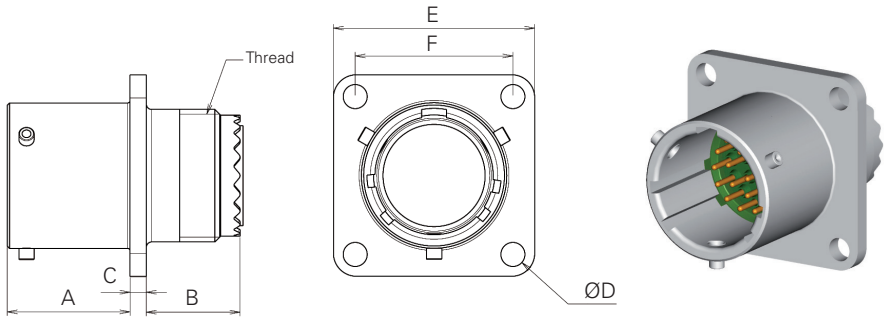
Type 7 - Jam nut receptacle



Shell size	A +0 -0.2	B	C	8ST & VG Thread	JN1003 Thread	ØD	E ±0.3	F ±0.4	Tightening torque for JN1003 (mN)
08	13.46	2.43 / 3.09	1.6 / 3.2	9/16-24 UNEF 2A	7/16-28 UNEF 2A	27.3	23.8	19.1	4
10	16.64	2.43 / 3.09	1.6 / 3.2	11/16-24 UNEF 2A	9/16-24 UNEF 2A	30.5	27.0	22.2	6
12	20.78	2.43 / 3.09	1.6 / 3.2	13/16-20 UNEF 2A	11/16-24 UNEF 2A	35.3	31.8	27.0	9
14	23.93	2.43 / 3.09	1.6 / 3.2	15/16-20 UNEF 2A	13/16-20 UNEF 2A	38.4	34.9	30.2	10
16	27.08	2.43 / 3.09	1.6 / 3.2	1"1/16-18 UNEF 2A	15/16-20 UNEF 2A	41.6	38.1	33.3	13
18	30.25	3.23 / 3.89	1.6 / 3.2	1"3/16-18 UNEF 2A	1"1/16-18 UNEF 2A	44.8	41.3	36.5	20
20	33.43	3.23 / 3.89	1.6 / 3.2	1"5/16-18 UNEF 2A	1"3/16-18 UNEF 2A	49.6	46.0	39.7	23
22	36.60	3.23 / 3.89	1.6 / 3.2	1"7/16-18 UNEF 2A	1"5/16-18 UNEF 2A	52.7	49.2	42.7	25
24	39.78	3.23 / 3.89	1.6 / 3.2	1"7/16-18 UNEF 2A	1"7/16-18 UNEF 2A	55.9	52.4	46.0	26

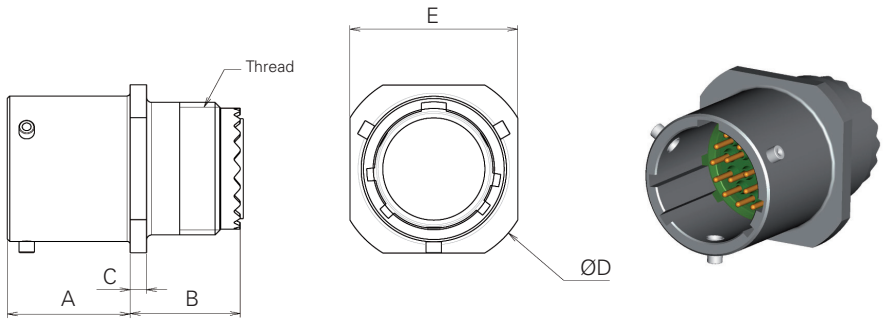
Note: All dimensions are in millimeters (mm)

Type 0 - Square flange receptacle



Shell size	A +0 -0.2	B Min.	C	Thread	ØD ±0.13	E ±0.4	F ±0.1
08	16.05	11.8	2.16 / 2.42	7/16-28 UNEF 2A	3.05	20.6	15.1
10	16.05	11.8	2.16 / 2.42	9/16-24 UNEF 2A	3.05	23.8	18.3
12	16.05	11.8	2.16 / 2.42	11/16-24 UNEF 2A	3.05	26.2	20.6
14	16.05	11.8	2.16 / 2.42	13/16-20 UNEF 2A	3.05	28.6	23.0
16	16.05	11.8	2.16 / 2.42	15/16-20 UNEF 2A	3.05	31.0	24.6
18	16.05	11.8	2.16 / 2.42	1"1/16-18 UNEF 2A	3.05	33.3	27.0
20	15.29	11.8	2.92 / 3.18	1"3/16-18 UNEF 2A	3.05	36.5	29.4
22	15.29	11.8	2.92 / 3.18	1"5/16-18 UNEF 2A	3.05	39.7	31.8
24	15.29	11.8	2.92 / 3.18	1"7/16-18 UNEF 2A	3.73	42.9	34.9

Type 1 - In line receptacle



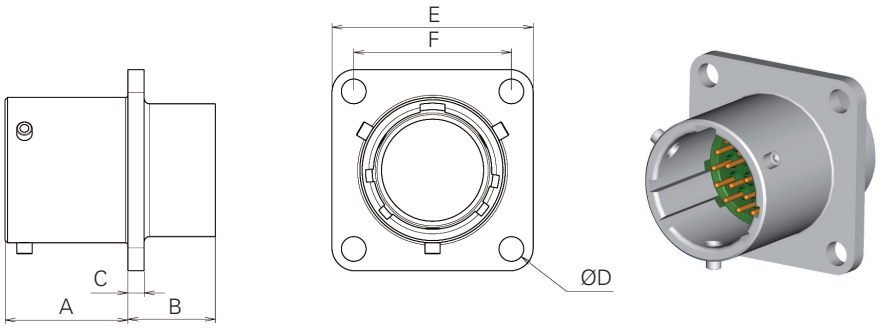
Shell size	A +0 -0.2	B Min.	C	Thread	ØD ±0.1	E ±0.4
08	16.05	11.8	2.16 / 2.42	7/16-28 UNEF 2A	18.0	14.2
10	16.05	11.8	2.16 / 2.42	9/16-24 UNEF 2A	22.3	18.5
12	16.05	11.8	2.16 / 2.42	11/16-24 UNEF 2A	25.6	21.8
14	16.05	11.8	2.16 / 2.42	13/16-20 UNEF 2A	29.0	25.2
16	16.05	11.8	2.16 / 2.42	15/16-20 UNEF 2A	31.2	27.4
18	16.05	11.8	2.16 / 2.42	1"1/16-18 UNEF 2A	34.6	31.0
20	15.29	11.8	2.92 / 3.18	1"3/16-18 UNEF 2A	38.0	34.2
22	15.29	11.8	2.92 / 3.18	1"5/16-18 UNEF 2A	41.4	37.6
24	15.29	11.8	2.92 / 3.18	1"7/16-18 UNEF 2A	45.4	41.6

Note: All dimensions are in millimeters (mm)

Souriau 8ST series

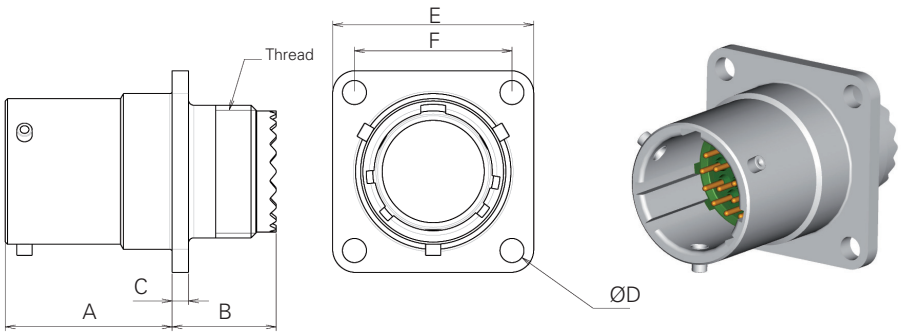
Dimensions

Type 2 - Square flange receptacle (not accepting backshell)



Shell size	A +0 -0.2	B Min.	C	ØD ±0.13	E ±0.4	F ±0.1
08	16.05	11.2	2.16 / 2.42	3.05	20.6	15.1
10	16.05	11.2	2.16 / 2.42	3.05	23.8	18.3
12	16.05	11.2	2.16 / 2.42	3.05	26.2	20.6
14	16.05	11.2	2.16 / 2.42	3.05	28.6	23.0
16	16.05	11.2	2.16 / 2.42	3.05	31.0	24.6
18	16.05	11.2	2.16 / 2.42	3.05	33.3	27.0
20	15.29	12.0	2.92 / 3.18	3.05	36.5	29.4
22	15.29	12.0	2.92 / 3.18	3.05	39.7	31.8
24	15.29	13.0	2.92 / 3.18	3.73	42.9	34.9

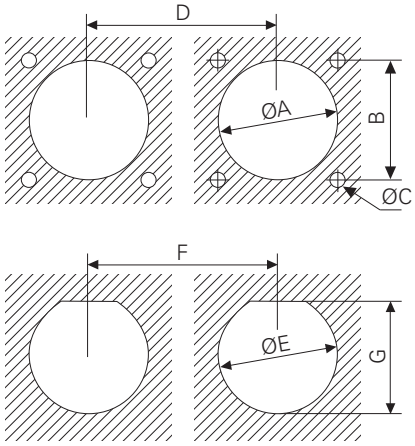
Type 3 - Square flange receptacle (rear mounting)



Shell size	A +0 -0.2	B Min.	C	Thread	ØD ±0.13	E ±0.4	F ±0.1
08	21.84	13.5	2.16 / 2.42	7/16-28 UNEF 2A	3.05	20.6	15.1
10	21.84	13.5	2.16 / 2.42	9/16-24 UNEF 2A	3.05	23.8	18.3
12	21.84	13.5	2.16 / 2.42	11/16-24 UNEF 2A	3.05	26.2	20.6
14	21.84	13.5	2.16 / 2.42	13/16-20 UNEF 2A	3.05	28.6	23.0
16	21.84	13.5	2.16 / 2.42	15/16-20 UNEF 2A	3.05	31.0	24.6
18	21.84	13.5	2.16 / 2.42	1"1/16-18 UNEF 2A	3.05	33.3	27.0
20	21.84	13.5	2.16 / 2.42	1"3/16-18 UNEF 2A	3.05	36.5	29.4
22	21.84	13.5	2.16 / 2.42	1"5/16-18 UNEF 2A	3.05	39.7	31.8
24	25.4	12.3	2.16 / 2.42	1"7/16-18 UNEF 2A	3.73	42.9	34.9

Note: All dimensions are in millimeters (mm)

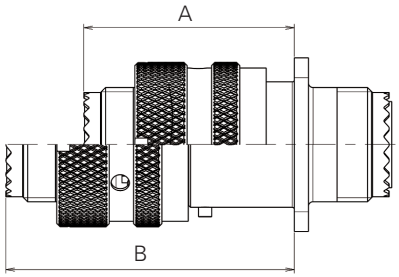
Panel cut-out



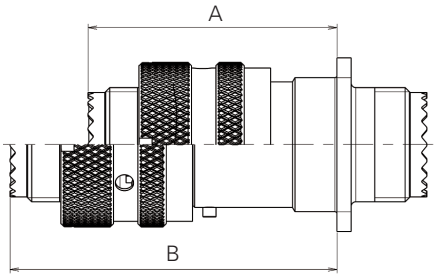
Shell size	Types 0, 2 & 3						Type 7			
	Back panel mounting			Front panel mounting						
	ØA +0.25 -0	ØC +0.25 -0	D Min.	ØA +0.25 -0	ØC +0.25 -0	D Min.	B	ØE +0.25 -0	F Min.	G +0.25 -0
08	14	3.3	28	12.7	3.5	21.45	15.1	14.5	28	13.7
10	17	3.3	31	16	3.5	24.65	18.3	17.7	31	16.9
12	22	3.3	36	19	3.5	27	20.6	22.7	36	21
14	25	3.3	41	22.2	3.5	29.8	23.0	25.7	41	24.2
16	28	3.3	43	25.5	3.5	32.95	24.6	28.8	43	27.3
18	31	3.3	46	28.5	3.5	36.15	27.0	32.0	46	30.5
20	34.5	3.3	53	31.7	3.5	38.9	29.4	35.1	53	33.7
22	37.5	3.3	58	35	3.5	42.1	31.8	38.4	58	36.9
24	41	3.88	61	38	4	45.25	34.9	41.5	61	40

Mated/unmated dimensions

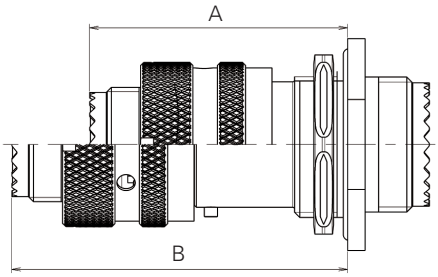
Types 8ST5 & 8ST6 with types 8ST0/8ST1/8ST2



Types 8ST5 & 8ST6 with type 8ST3



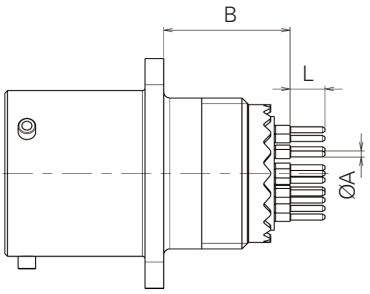
Types 8ST5 & 8ST6 with type 8ST7



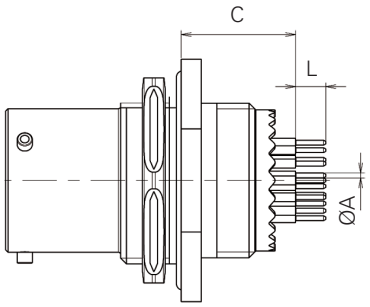
Shell size	A Max.	B Max.	C Max.	D Max.	E Max.	F Max.
08	31.93	46.99	37.72	52.78	39.24	54.30
10	31.93	46.99	37.72	52.78	39.24	54.30
12	31.93	46.99	37.72	52.78	39.24	54.30
14	31.93	46.99	37.72	52.78	39.24	54.30
16	31.93	46.99	37.72	52.78	39.24	54.30
18	31.93	46.99	37.72	52.78	39.24	54.30
20	31.17	46.23	37.72	52.78	39.24	54.30
22	31.17	46.23	37.72	52.78	39.24	54.30
24	31.17	46.23	41.28	56.34	39.24	54.30

Note: All dimensions are in millimeters (mm)

Receptacle with straight PC tail contacts



8ST0

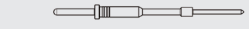
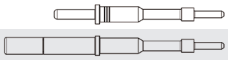
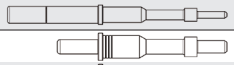
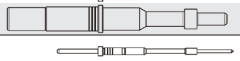
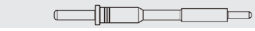


8ST7

	Contact style			Shell type	
	Size	**Type**	**Length**	**8ST0**	**8ST7**
ØA Max.	**#22D / #20**	P / S	L / C	0.7	-
		P / S	C	-	0.66
	#22D	P	M	0.5	0.66
	#20	S	M	-	0.66
	#16	P	L	1.66	-
		P / S	C	1.15	1.15
	#12	P / S	C	2.06	-
L	**#22D / #20**	P / S	L	$8.5^{+0}_{-0.2}$	-
	#16	P	L	$5.3^{\pm0.1}$	-
	#22D	P / S	C	$4^{+0}_{-0.2}$	-
	#20 / #16 / #12	P / S	C	$5^{\pm0.1}$	-
	#22D	P	M	$6^{\pm0.1}$	$6.5^{+0}_{-0.2}$
	#22D / #20 / #16	P / S	C	-	$4^{\pm0.1}$
	#20	S	M	-	$6.5^{\pm0.1}$
B	**#22D**	P / S	L / C	14.07 / 15.06	14.07 / 15.06
		P	M	14.24 / 15.23	14.24 / 15.23
	#20	P / S	L	14.07 / 15.06	14.07 / 15.06
		P / S	C	14.24 / 15.23	14.24 / 15.23
	#16	P	L	18.62 / 19.61	18.62 / 19.61
	#16 / #12	P / S	C	14.24 / 15.23	14.24 / 15.23
C	**#22D**	P	M	13.86 / 14.86	13.86 / 14.86
	#20	S	M	13.86 / 14.86	13.86 / 14.86
	#22D / #20 / #16	P / S	C	14.79 / 15.79	14.79 / 15.79

Note: All dimensions are in millimeters (mm)

Straight PC tail contacts

Shell type	Contact length	Contact size	Contact type	Part number (no color code)	Profile
8ST0	**L**	**#22D**	P	8599-0720	
			S	8599-0721	
		#20	P	8599-0771	
			S	8599-0772	
		#16	P	8599-7496A	
	C	**#22D**	P	8599-0730	
			S	8599-0731	
		#20	P	8599-0724	
			S	8599-0725	
		#16	P	8599-0726	
			S	8599-0727	
		#12	P	8599-7929	
			S	8599-7932	
	M	**#22D**	P	8599-8028	
8ST7	**C**	**#22D**	P	8599-0779	
			S	8599-0788	
		#20	P	8599-0780	
			S	8599-0789	
		#16	P	8599-7711	
			S	8599-7710	
	M	**#22D**	P	8599-0728	
		#20	S	8599-0786	

Crimp contacts

Contact size	Contact type	Part number (no color code)	QPL part number	Profile and color code	
#22D	P	8599-0702 JJ	M39029/58-360		Black / Blue / Orange
	S	8599-0706 900	M39029/56-348		Grey / Yellow / Orange
#20	P	8599-0703 SA	M39029/58-363		Orange / Blue / Orange
	S	8599-0707 900	M39029/56-351		Brown / Green / Orange
#16	P	8599-0704 MJ	M39029/58-364		Yellow / Blue / Orange
	S	8599-0708 900	M39029/56-352		Red / Green / Orange
#12	P	8599-0705 MJ	M39029/58-365		Green / Blue / Orange
	S	8599-0709 900	M39029/56-353		Orange / Green / Orange
#8 Power	P	8599-7560	-	-	-
	S	8599-7561	-	-	-
#4 Power	P	8599-7534	-	-	-
	S	8599-7535	-	-	-

Coaxial contacts #12

Designation	Part number
Coax socket solder contact #12	THA1-0151A
Coax pin solder contact #12	THA1-0152A
Coax pin crimp contact #12	THA1-0155A
Coax socket crimp contact #12	THA1-0156A

Solder cup

Contact size	Contact type	Part number
#22D	Pin	8599-0750 900
#20	Pin	8599-0077A 900
#16	Pin	8599-7482A 900
#12	Socket	8599-7485A 900

For other contact types, please contact us.

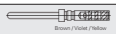
Quadrax #8 contacts

Contact type	Version	Part number	Cross Norm	T°	Impedance	Sealing	Release
Pin	PCB mount	ETH1-1237A	-	125°C	100Ω	Sealed	Rear
		ETH1-1501A	-	125°C	150Ω	Sealed	Rear
	Crimp	ETH1-1345A	EN3155-074	200°C	100Ω	Sealed	Rear
		ETH1-1503A	-	200°C	150Ω	Sealed	Rear
Socket	PCB mount	ETH1-1238A	-	125°C	100Ω	Sealed	Rear
		ETH1-1502A	-	125°C	150Ω	Sealed	Rear
	Crimp	ETH1-1346A	EN3155-075	200°C	100Ω	Sealed	Rear
		ETH1-1504A	-	200°C	150Ω	Sealed	Rear

Wire wrap contacts

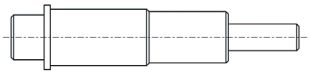
Contact size	Contact type	Part number	Contact Ø (mm)	Profile	(mm)
#22D	Pin	8599-0790 JJ	0.76		0.86
#20	Pin	8599-0791 900	1		0.86

Thermocouple contacts

			MIL-DTL-38999 contacts			Wire section				Ø Over insulation (mm)	
						Awg		mm2			
Contact size	**Contact type**	**Part number (without color code)**	**Part number**	**Profile and color code**	**Ø Contact (mm)**	**min**	**max**	**min**	**max**	**min**	**max**
#22D Chromel	Pin	-	M39029/87-472		0.75	28	22	0.095	0.34	0.76	1.37
	Socket	-	M39029/88-484		0.75	28	22	0.095	0.34	0.76	1.37
#22D Alumel	Pin	-	M39029/87-471		0.75	28	22	0.095	0.34	0.76	1.37
	Socket	-	M39029/88-483		0.75	28	22	0.095	0.34	0.76	1.37
#20 Chromel	Pin	8599-0749 900	8599-0949 900		1	24	20	0.21	0.6	1.02	2.11
	Socket	8599-0753 900	8599-0953 900		1	24	20	0.21	0.6	1.02	2.11
#20 Alumel	Pin	8599-0761 900	8599-0961 900		1	24	20	0.21	0.6	1.02	2.11
	Socket	8599-0765 900	8599-0965 900		1	24	20	0.21	0.6	1.02	2.11

Wire wrap contacts

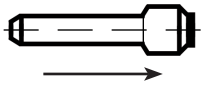
Size	Part number
#16	8599-6A016001A
#8	8599-0308
#4	8599-0310



8599-0308

Filler plugs

Contact size	MS (Rev. N)		Souriau		JN1003 (EFA)*
	Part number	**Color**	**Part number**	**Color**	**Part number**
#22D	MS27488-22-2	Black	8660-212	Black	JN1003 N 22
#20	MS27488-20-2	Red	8522-389A	Red	JN1003 N 20
#16	MS27488-16-2	Green	8522-390A	Blue	JN1003 N 16
#12	MS27488-12-2	Orange	8522-391A	Yellow	JN1003 N 12



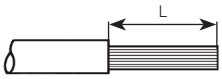
Direction of introduction in grommet

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

Wiring instructions

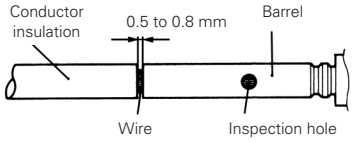
Cable preparation and wire stripping

Contact size	#26	#22D	#20	#16	#12	#8	#4
L	4	4	6	6	6	12	12



L = length of wire stripping

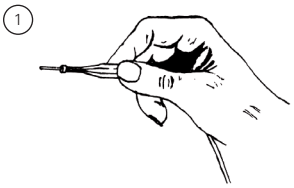
Insertion of wire in contact barrel



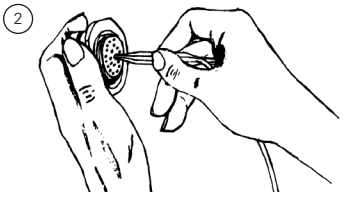
When inserting the stripped wire into the contact barrel check that no strands are left outside and that the wire is visible through the wire inspection hole in the barrel.

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

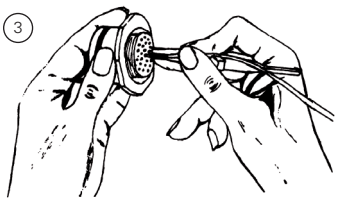
Insertion of the contacts



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

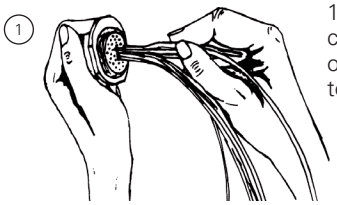


2 - Introduce the contact into the required contact cavity in the insulator, pushing tool axially, until the contact snaps into position in clip.

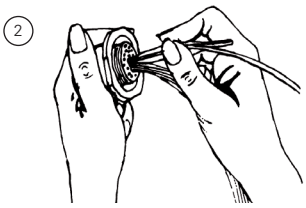


3 - Withdraw the tool from rear. Check that contact is firmly locked by pulling wire gently. When connector is fully loaded, check the position of contact tips. They should all be in the same plane. Note: For larger sizes of cable which are stiff enough manual insertion without tool is preferable.

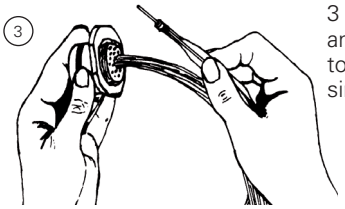
Extraction of the contacts



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.

Tooling

Crimping tools

Contact size	Contact type	Plier M22520/1-01 Turret Part number	Plier M22520/2-01 (Souriau 8476-01) Locator Part number	Plier M300BT Locator Part number	Plier * M22520/23-01 Turret Part number	Locator Part number
#22D	Pin	-	M22520/2-09	-	-	-
	Socket	-	M22520/2-07	-	-	-
#20	Pin	M22520/1-04	M22520/2-10	-	-	-
	Socket	M22520/1-04	M22520/2-10	-	-	-
#16	Pin	M22520/1-04	-	-	-	-
	Socket	M22520/1-04	-	-	-	-
#12	Pin	M22520/1-04	-	-	-	-
	Socket	M22520/1-04	-	-	-	-
#8 Power	Pin	-	-	SP 593	M22520/23-02	8599-9601
	Socket	-	-	SP 593	M22520/23-02	8599-9601
#4 Power	Pin	-	-	-	M22520/23-04	M22520/23-11
	Socket	-	-	-	M22520/23-04	M22520/23-11

Contact size	Contact type	Plier M22520/2-01 (Souriau 8476-01) Locator Part number	Plier M22520/31-01 Locator Part number	Plier M22520/4-01 Locator Part number	Plier M22520/5-01 Die set Part number
#12 Coax M39029/102-558 M39029/103-559	Inner	-	-	-	M22520/5-03
	Outer	-	-	-	M22520/5-03
#12 Coax M39029/28-211 M39029/75-416	Inner	M22520/2-34	-		
	Outer	-	M22520/31-02	-	-
#16 Coax	Inner	M22520/2-35	-	-	-
	Outer	-	-	M22520/4-02	-
#8 Coax	Inner	M22520/2-31	-	-	-
	Outer	-	-	-	M22520/5-05 closure B
#8 Concentric Twinax **	Inner	M22520237	-	-	-
	Middle	-	-	-	Y631 closure B
	Ferrule	-	-	-	Y631 closure A

* Pneumatic plier
Note: Please contact us for the #10 contact's plier and locator.
** Concentric Twinax = Triax

Souriau 8ST series

Tooling

Insertion & extraction tools

		Part number		Color	
Contact size	**Material**	**MIL standard**	**Souriau**	**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
#10	Plastic	M81969/14-05	-	Grey	-
#8	Plastic	M81969/14-12	-	-	Green
	Metallic	-	8660-197	-	-
#4	Plastic	M81969/14-07	-	-	Blue
	Metallic	-	8533-8175	-	-

Backshell tightening tools

8522-9267A

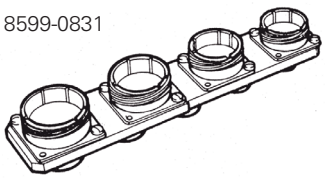
Backshell tightening pliers, part number: **8522-9267A**

Tightening of rear accessories:

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

Tightening support

8599-0831



Part number: **8599-0831**
This tool is made up of dummy receptacle housings of all 9 sizes for all key polarization, 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**

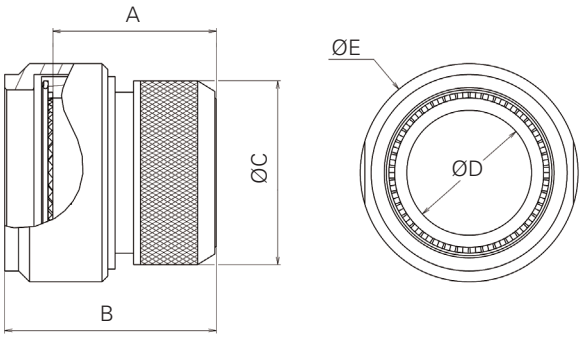
Tightening of fixing nuts, receptacle type 7

Shell size	**08**	**10**	**12**	**14**	**16**	**18**	**20**	**22**	**24**
Nut dimension across flats	19.1	22.2	27.0	30.2	33.3	36.5	39.7	42.7	46.0
Max tightening torque on nut (mN)	4	6	9	10	13	20	23	25	26

Backshells

Aluminum backshell

Backshell for shielded cables and heatshrink boot



Dimensions

Shell size	A Max	B Max	ØC Max	ØD Max	ØE ±0.2
08	24.8	34	14	6.4	19
10	25.8	35	16	7.2	22
12	25.8	35	18	9.7	25
14	25.8	36	22	12.7	28
16	26.8	36	25	15.7	30
18	26.8	36	28	18.7	34
20	26.8	36	32	21.7	38
22	26.8	36	34	23.7	43
24	26.8	36	38	27.7	45

Ordering information

8LST 101 B 52

Orientation
57: Backshell for shielded cables and heatshrink boot

Basic series

Plating
B: Olive green cadmium

Size code

101, 102, 103, 104, 105, 106, 107, 108, 109

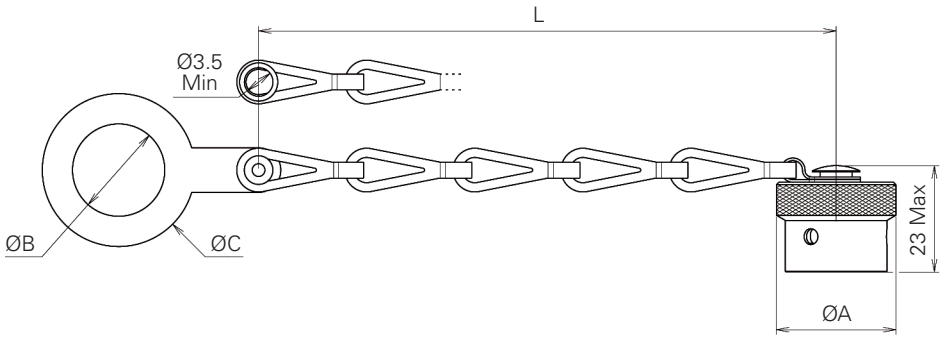
Size code		101	102	103	104	105	106	107	108	109
= Shell size	All shell types, except type 7	08	10	12	14	16	18	20	22	24
	Shell type 7	N/A	08	10	12	14	16	18	20	22&24

Souriau 8ST series

Protective caps, dimensions

Protective caps

Metallic protective caps for receptacle



Dimensions

Shell size	ØA Max	ØB Min	ØC Max	L
08	19	14.6	23.5	84
10	22	17.8	26.77	84
12	26	22.5	31.55	100
14	29	25.7	36.83	100
16	33	28.9	40.31	100
18	36	32.1	43.18	100
20	39	35.2	46.36	116
22	44	38.4	49.19	116
24	46	41.6	52.71	116

Ordering information

8500- 0 2 -44D

Basic series

8500-: Cap for receptacle

Size code

02, 03, 04, 05, 27, 06, 07, 08, 09

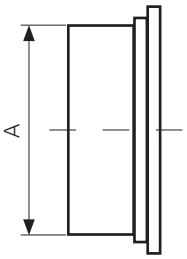
Size code	02	03	04	05	27	06	07	08	09
= Shell size 8ST	08	10	12	14	16	18	20	22	24

Plating & fixing type

J: Olive green cadmium plating with metallic chain and ring
D: Olive green cadmium plating with metallic chain and eyelet
-44D: Nickel plating with metallic chain and eyelet

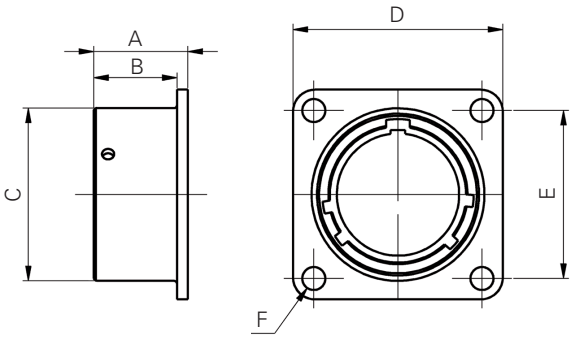
Plastic protective caps

	ØA		Part numbers	
Shell size	Cap for receptacle	Cap for plug	Cap for receptacle	Cap for plug
08	15.40	16.65	8500 5585 A	70 777
10	18.30	19.72	8500 5586 A	70 205
12	22.65	-	8500 5587 A	MS90376 16Y
14	25.80	30.80	8500 5588 A	8500 5600
16	29.20	33.90	8500 5589 A	8500 5601
18	32.40	37.00	8500 5590 A	8500 5602
20	35.60	39.00	8500 5591 A	8500 5592A
22	39.00	42.20	8500 5592 A	8500 5593A
24	42.20	44.50	8500 5593 A	70 472



Note: All dimensions are in millimeters (mm)

Dummy receptacles



Shell size	Part numbers	A Max	B Max	ØC	D Max	E	ØF ±0.13
08	8ST0-08GUR	18.35	16.05	12.04	21.00	15.10	3.05
10	8ST0-10GUR	18.35	16.05	15.02	24.20	18.26	3.05
12	8ST0-12GUR	18.35	16.05	19.08	26.60	20.62	3.05
14	8ST0-14GUR	18.35	16.05	22.26	29.00	23.01	3.05
16	8ST0-16GUR	18.35	16.05	25.43	31.35	24.61	3.05
18	8ST0-18GUR	18.35	16.05	28.61	33.70	26.98	3.05
20	8ST0-20GUR	18.35	15.29	31.78	36.90	29.38	3.05
22	8ST0-22GUR	18.35	15.29	34.96	40.10	31.77	3.05
24	8ST0-24GUR	18.35	15.29	38.13	43.30	34.92	3.73

Panel gasket

Shell size	Part numbers		
	Gasket for receptacle type 0		O ring for receptacle type 7
08	8525-1431	8590-2251	AS3582-017
10	8525-1432	8590-2252	AS3582-019
12	8525-1433	8590-2253	AS3582-022
14	8525-1434	8590-2254	AS3582-024
16	8525-1435	8590-2255	AS3582-026
18	8525-1436	8590-2256	AS3582-028
20	8525-1437	8590-2257	AS3582-128
22	8525-1438	8590-2258	AS3582-130
24	8525-1439	8590-2259	AS3582-132

Notes:
- 8ST0 gasket must be ordered separately
- Compliant to 8ST Series temperature range - max 200°C
- For use up to 125°C, gaskets in accordance with VG95328:
  VG95328T07A...= non conductive
  VG95328 07B...= conductive (for HF application)

Note: All dimensions are in millimeters (mm)

Souriau 8ST series

Reductors, boots, orientations

Reductors

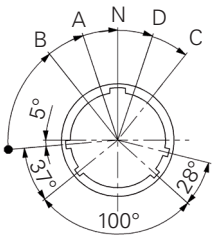
Reductor Size	Part number	For cable	For pin contacts	For socket contacts
#8 Power	8599-7645	#10	8599-7580	8599-7581
#4 Power	8400-2352A	10 mm²	8599-7534A	8599-7535A

Boots

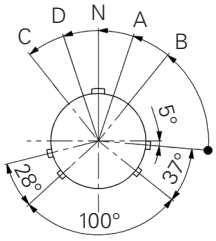
Boot Size	Part number	Admissible wire section mm²		For cable
#8 Power	8599-4542	5	6.5	8.48 à 10 mm²
	8599-4547	2.5	4	#10
#4 Power	8599-4594	6.35	7.5	#4 - #5
	8599-4593	4	5.8	#6 - #8

Orientations

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



View from front face of receptacle



View from front face of plug

	Angles (degrees)				
Shell size	**N**	**A**	**B**	**C**	**D**
08	95	77	-	-	113
10	95	81	67	123	109
12	95	75	63	127	115
14	95	74	61	129	116
16	95	77	65	125	113
18	95	77	65	125	113
20	95	77	65	125	113
22	95	80	69	121	110
24	95	80	69	121	110

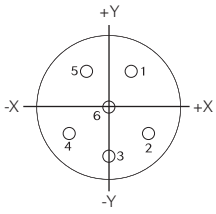
Coordinates for straight PC tail terminations

Viewed from front face of male insulator

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

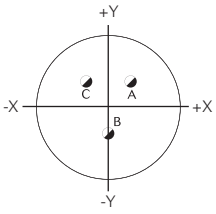
08

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

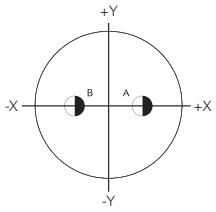
98



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

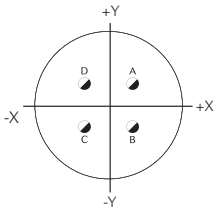
10

02



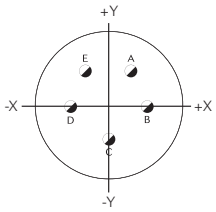
Ctc	X	Y
A	0.00	+2.41
B	0.00	-2.41

04



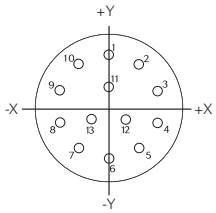
Ctc	X	Y
A	+1.65	+1.65
B	+1.65	-1.65
C	-1.65	-1.65
D	-1.65	+1.65

05



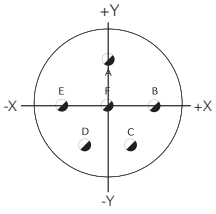
Ctc	X	Y
A	+1.65	+1.42
B	+2.86	-1.65
C	0.00	-3.30
D	-2.86	-1.65
E	-1.65	+1.42

35



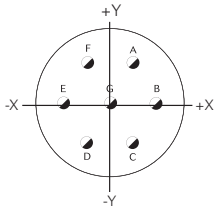
Ctc	X	Y
1	0.00	+3.71
2	+2.16	+3.00
3	+3.51	+1.14
4	+3.51	-1.14
5	+2.16	-3.00
6	0.00	-3.71
7	-2.16	-3.00
8	-3.51	-1.14
9	-3.51	+1.14
10	-2.16	+3.00
11	0	+1.42
12	+1.24	-0.89
13	-1.24	-0.89

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



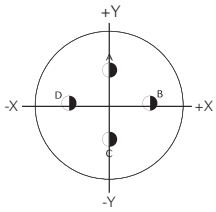
Ctc	X	Y
A	+1.65	+2.85
B	+3.30	0.00
C	+1.65	-2.87
D	-1.65	-2.87
E	-3.30	0.00
F	-1.65	+2.87
G	0.00	0.00

Souriau 8ST series

Coordinates

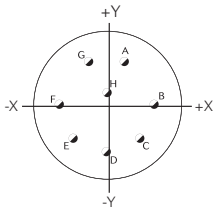
12

04



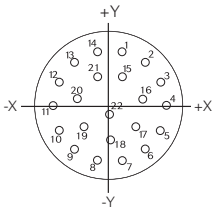
Ctc	X	Y
A	0.00	+3.81
B	+3.71	+0.89
C	0.00	-2.11
D	-3.71	+0.89

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

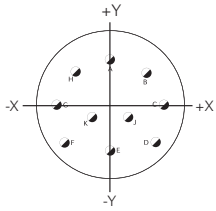
35



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

Ctc	X	Y
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

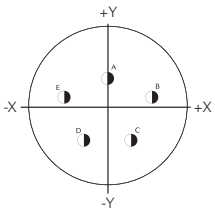
98



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

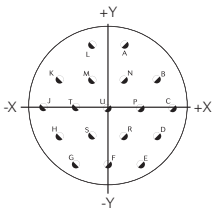
14

05



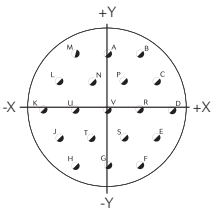
Ctc	X	Y
A	0	+2.54
B	+4.42	+0.61
C	+2.39	+3.76
D	-2.39	-3.76
E	-4.42	+0.61

18



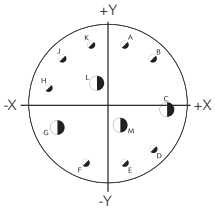
Ctc	X	Y
A	+1.65	+6.40
B	+4.95	+2.87
C	+6.60	0.00
D	+4.95	-2.87
E	+3.30	-5.72
F	0.00	-5.72
G	-3.30	-5.72
H	-4.95	-2.87
J	-6.60	0.00
K	-4.95	+2.87
L	-1.65	+6.40
M	-1.65	+2.87
N	+1.65	+2.87
P	+3.30	0.00
R	+1.65	-2.87
S	-1.65	-2.87
T	-3.30	0.00
U	0.00	0.00

19



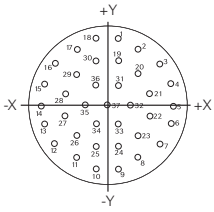
Ctc	X	Y
A	0.00	+5.72
B	+3.30	+5.72
C	+4.95	+2.87
D	+6.60	0.00
E	+4.95	-2.87
F	+3.30	-5.72
G	0.00	-5.72
H	-3.30	-5.72
J	-4.95	-2.87
K	-6.60	0.00
L	-4.95	+2.87
M	-3.30	+5.72
N	-1.65	+2.87
P	+1.65	+2.87
R	+3.30	0.00
S	+1.65	-2.87
T	-1.65	-2.87
U	-3.30	0.00
V	0.00	0.00

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
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
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
17	-3.12	+5.51
18	-1.14	+6.65
19	+1.14	+4.37

Ctc	X	Y
20	+3.12	+3.02
21	+4.32	+1.02
22	+4.32	-1.27
23	+3.12	-3.23
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
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

Souriau 8ST series

Coordinates

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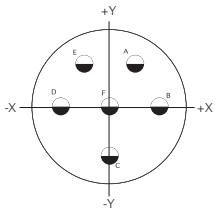
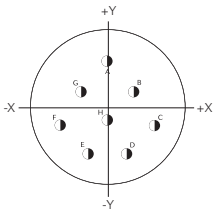
06



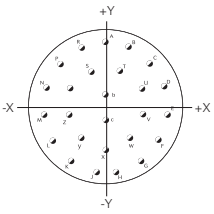
Ctc	X	Y
A	+3.07	+5.31
B	+6.12	0.00
C	0.00	-6.12
D	-6.12	0.00
E	-3.07	+5.31
F	0.00	0.00

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

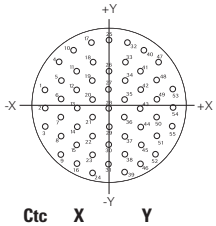
26



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

Ctc	X	Y
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

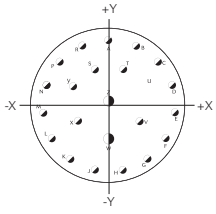
35



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

Ctc	X	Y
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

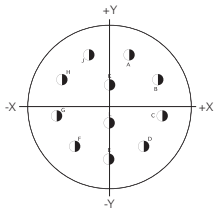
99



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

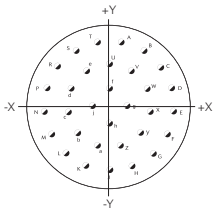
18

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

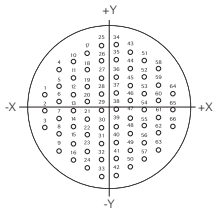
32



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

Souriau 8ST series

Coordinates

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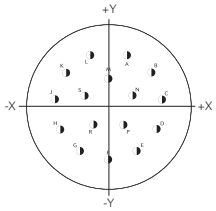
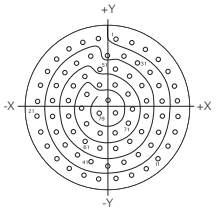
16



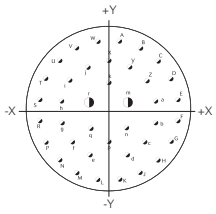
Ctc	X	Y
A	+3.00	+8.18
B	+6.88	+5.36
C	+8.66	+0.91
D	+7.82	-3.81
E	+4.62	-7.37
F	0.00	-8.71
G	-4.62	-7.37
H	-7.82	-3.81
J	-8.66	+0.91
K	-6.88	+5.36
L	-3.00	+8.18
M	0.00	+4.45
N	+3.91	+1.57
P	+2.39	-3.10
R	-2.39	-3.10
S	-3.91	+1.57

35



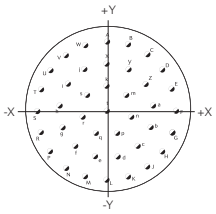
Ctc	X	Y
1	+1.35	+10.82
2	+3.71	+10.26
3	+5.89	+9.19
4	+7.77	+7.67
5	+9.27	+5.77
6	+10.31	+3.58
7	+10.85	+1.22
8	+10.85	-1.22
9	+10.31	-3.58
10	+9.27	-5.77
11	+7.77	-7.67
12	+5.89	-9.19
13	+3.71	-10.26
14	+1.35	-10.82
15	-1.35	-10.82
16	-3.71	-10.26
17	-5.89	-9.19
18	-7.77	-7.67
19	-9.27	-5.77
20	-10.31	-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
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
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
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
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
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
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

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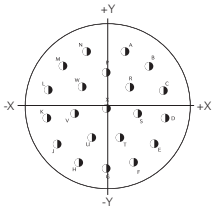
21



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

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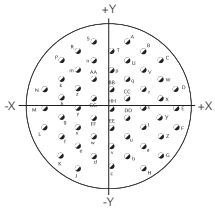

Ctc	X	Y
A	+2.84	+11.56
B	+5.72	+9.91
C	+8.53	+8.26
D	+11.43	+3.30
E	+11.43	0.00
F	+11.43	-3.30
G	+8.53	-8.26
H	+5.72	-10.41
J	-5.72	-10.41
K	-8.53	-8.26
L	-11.43	-3.30
M	-11.43	0.00
N	-11.43	+3.30
P	-8.53	+8.26
R	-5.72	+9.91
S	-2.84	+11.56
T	0.00	+9.91
U	+2.84	+8.26
V	+5.72	+6.60
W	+8.53	+4.95

Ctc	X	Y
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
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

Ctc	X	Y
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

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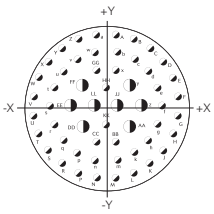
04



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
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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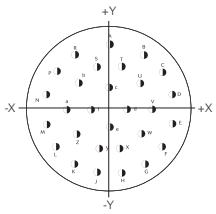

Ctc	X	Y
A	0.00	+12.22
B	+6.55	+10.31
C	+10.03	+7.04
D	+11.91	+2.77
E	+11.91	-2.77
F	+10.03	-7.04
G	+6.68	-10.31
H	+2.31	-11.99

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

Souriau 8ST series

Coordinates

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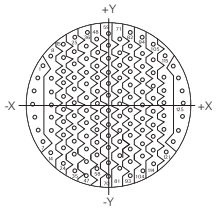

Ctc	X	Y
1	-12.17	+7.09
2	-13.21	+4.83
3	-13.87	+2.41
4	-14.10	0.00
5	-13.87	-2.41
6	-13.21	-4.83
7	-12.17	-7.09
8	-10.77	+9.07
9	-10.54	+4.83
10	-10.54	+2.41
11	-10.54	0.00
12	-10.54	-2.41
13	-10.54	-4.83
14	-10.77	-9.07
15	-8.43	+11.28
16	-8.43	+8.43
17	-8.43	+6.02
18	-8.43	+3.61
19	-8.43	+1.19
20	-8.43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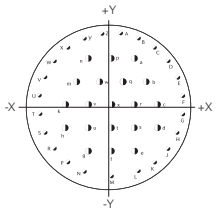

Ctc	X	Y
A	+1.75	+13.49
B	+5.16	+12.57
C	+8.23	+10.80
D	+10.77	+8.28
E	+12.52	+5.21
F	+13.49	+1.75
G	+13.49	-1.75
H	+12.52	-5.21
J	+10.77	-8.28
K	+8.23	-10.80
L	+5.16	-12.57
M	0.00	-13.49
N	-5.16	-12.57
P	-8.23	-10.80
R	-10.77	-8.28
S	-12.52	-5.21
T	-13.49	-1.75
U	-13.49	+1.75
V	-12.52	+5.21
W	-10.77	+8.28
X	-8.23	+10.80

Ctc	X	Y
Y	-5.16	+12.57
Z	-1.75	+13.4
a	+4.37	+8.74
b	+6.55	+4.37
c	+8.74	0.00
d	+8.74	-4.37
e	+4.37	-8.74
f	0.00	-8.74
g	-4.37	-8.74
h	-8.74	-4.37
k	-8.74	0.00
m	-6.55	+4.37
n	-4.37	+8.74
p	0.00	+8.74
q	+2.18	+4.37
r	+4.37	0.00
s	+4.37	-4.37
t	0.00	-4.37
u	-4.37	-4.37
v	-4.37	0.00
w	-2.18	+4.37
x	0.00	0.00

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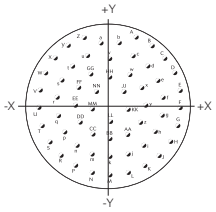

Ctc	X	Y
A	+4.98	+12.70
B	+7.98	+11.05
C	+10.49	+8.71
D	+12.32	+5.84
E	+13.39	+2.57
F	+13.61	-0.76
G	+12.98	-4.17
H	+11.53	-7.29
J	+9.35	-9.93
K	+6.58	-11.94
L	+3.40	-13.18
M	0.00	-13.64
N	-3.40	-13.18
P	-6.58	-11.94
R	-9.35	-9.93
S	-11.53	-7.29
T	-12.98	-4.17
U	-13.61	-0.76
V	-13.39	+2.57
W	-12.32	+5.84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

Ctc	X	Y
Z	-4.98	+12.10
a	-1.73	+11.53
b	+1.73	+11.53
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
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

Ctc	X	Y
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
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

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