

Aerospace & Military Bayonet Connectors MIL-DTL-38999 Series I





Contents

Overview		Contacts & Tooling	
8LT Series - Presentation	06	Crimp contacts	36
8LT Series - Applications	06	Straight PC tail contacts	
• A universal product platform		Coaxial contacts #12	
• Contact layouts		Solder cup	39
Contact layouts (matrix)		Crimp contacts: 1500 mating	39
Contact layoute (matrix)		Wire wrap contacts	
		Quadrax #8 contacts	
Series		Thermocouple contacts	
8LT Standard Version:		Dummy contacts	
Technical features	1./	• Filler plugs	
		Wiring instructions	
Ordering information		Crimping tools	42
Dimensions	19	Insertion & extraction tools	43
Backshells:			
Ordering information		Common Section	
Dimensions			4.7
Thread information		Protective caps	
Recommended installation torque	27	• Reductors	
Band-it	27	Boots Originate time	
• 8LT Rack & Panel:		Orientations Panal gasket	
Technical features	28	Panel gasket Dummy recentedes	
Ordering information	29	Dummy receptacles Cross reference list	40
Dimensions		Coordinates information	
Panel cut-out	31	Coordinates information	
8LT Resin sealed:			
Technical features	32	Range Extension	
Ordering information		• micro38999	60
	00	RoHS solution	
		High density	
		PCB contact without shoulder	

• Crimp contacts 3 • Straight PC tail contacts 3 • Coaxial contacts #12 3 • Solder cup 3 • Crimp contacts: 1500 mating 3 • Wire wrap contacts 3 • Quadrax #8 contacts 3 • Thermocouple contacts 4 • Dummy contacts 4 • Filler plugs 4 • Wiring instructions 4 • Crimping tools 4 • Insertion & extraction tools 4	8 9 9 9 0 0 1 2
Common Section	
• Protective caps 4 • Reductors 4 • Boots 4 • Orientations 4 • Panel gasket 4 • Dummy receptacles 4 • Cross reference list 4 • Coordinates information 5	6 7 7 8 9



8LT Series

Overview

8LT Series - Presentation	06
8LT Series - Applications	06
A universal product platform: MIL-DTL-38999	07
A universal product platform: VG96912 & JN1003	07
Contact layouts	08
Contact layouts (matrix)	12

8LT Series - Presentation

High contact density connectors with high reliability

38999 Series I: 8LT Series

This 8LT product family is qualified in accordance to the MIL-DTL-38999 Series I.

Originally designed to meet the high performance needs of the aerospace industries & military applications, it is also now used in varied applications needing extremely reliable interconnections with high density contact arrangements in a miniature circular shell.



- Weight and Space Saving
- Quick Mating 3 point bayonet lock system
- ► Mismating, error proof positioning keyway polarization (5 positions)
- ► High choice of Insert arrangements (customization possible, please consult us)
- ► Range extension available or on demand (Rack Panel, Potted, Hermetics, Low Profile, Filters, etc..), please consult us
- Versatility thanks to our inserts as for the series III (except for 8LT type 2) with full range of crimp contacts interchangeable
- ▶ Gold plated crimp or PC tail contacts are rear removable and retained in the insulator by a metal clip.
- ► RoHS version available (cadmium free)



A universal product platform: MIL-DTL-38999



38999 Series II: 8T Series

- ► Short version of MIL-DTL-38999 Series I
- ► Low profile = lightweight
- ► High density MIL-spec circular (1980's)
- ▶ Non-scoop proof, bayonet coupling
- ▶ Method of mounting: screws or jam nut
- ► Shell: Aluminum alloy
- ▶ Plating: cadmium, nickel, hard anodized
- QPL approved
- Numerous layouts



38999 Series III: 8D Series

- ► High density MIL-spec circular (1980's)
- Scoop proof, fast screw coupling
- ► Composite light-weight version available
- ▶ QPL approved
- ► Titanium version, light-weight, mechanical and environnemental performances
- Quadrax and Elio version
- Specific versions (clinch nuts, double flange, high power, hermetic, ...)

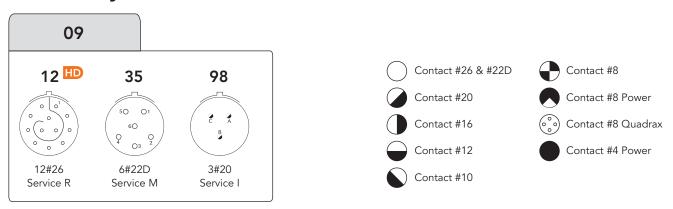
A universal product platform: VG96912 & JN1003

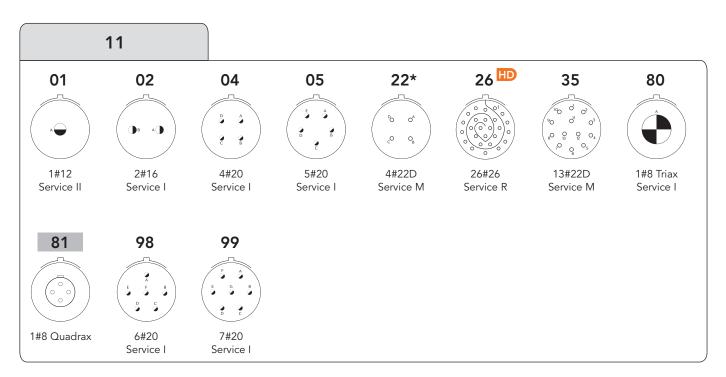


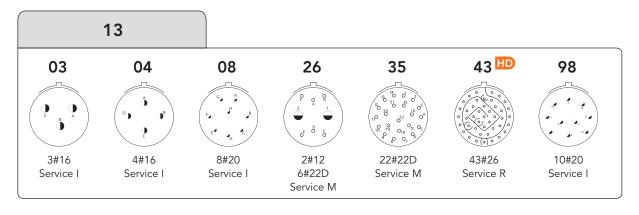
8ST Series

- High density same layouts as 38999 Series I
- Lightweight version of Series I
- Scoop proof, bayonet coupling
- ▶ Method of mounting: screws or jam nut
- ► Shell: Aluminum alloy
- ▶ Plating: olive green cadmium or nickel
- ▶ VG 96912 German specification
- ▶ JN 1003 Typhoon specification

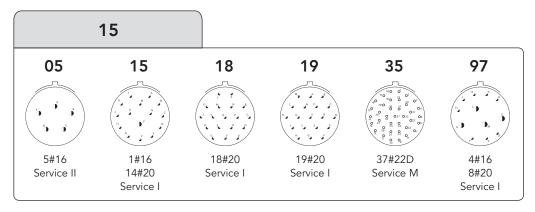
Contact layouts

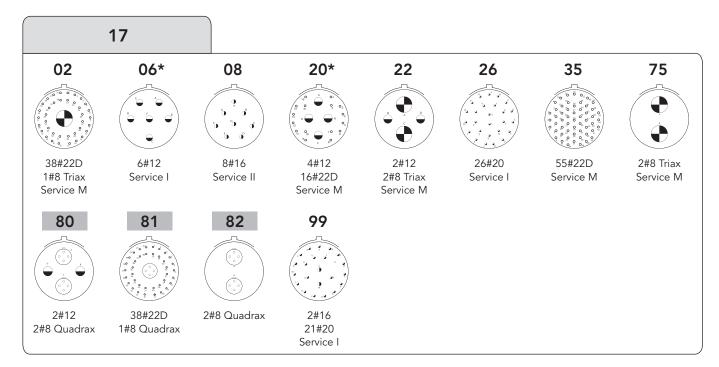


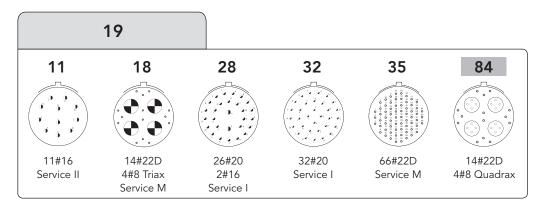




Contact layouts



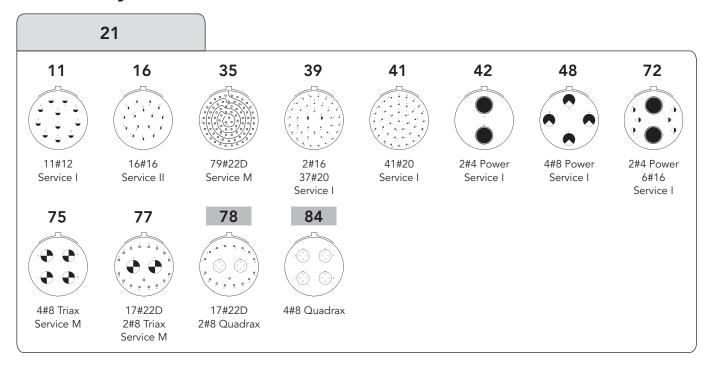


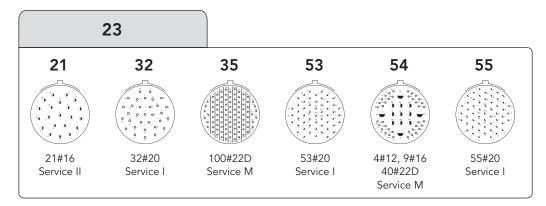


Ethernet Quadrax

^{*} Available on specific request. Please consult us.

Contact layouts





Contact layouts

25 04 07 08* 11* 19 24 29 35 2#8 Triax 8#8 Triax 19#12 12#16 29#16 128#22D 97#22D 9#10 12#12 48#20 Service M Service I Service I Service M Service I Service M Service N Service I 43 61 37 41 44 46 81 82 37#16 22#22D, 3#20 23#20 4#4 Power 40#20, 4#16 61#20 22#22D 11#16, 2#12 20#16 4#16 2#8 Coax Service I 3#20, 11#16 2#8 Quadrax Service I 3#8 Triax Service I Service I Service I 2#12 3#8 Quadrax Service M 86 88 90 40#20 8#8 Quadrax 40#20, 4#16 4#16 2#8 Twinax 2#8 Quadrax Service I

Contact layouts (matrix)

Ch all					MII-DTI-3	8999 (QPL)	.) HE 308 Nber		NII f									
Shell Size	Layout	Service	8LT	8LT2	MS (1)	MS27505	Not	Rack	Rack	Contacts	#26	#22D	#20	#16	#12	#10	# 8	#4 Power
	09-12	R	OK							12	12							
09	09-35	М	ОК	ОК	Q	Q	0	X		6		6						
	09-98	1	ОК	ОК	Q		0	Х		3			3					
	11-01	Ш	ОК						•	1					1			
	11-02	ı	ОК		Q				•	2				2				
	11-04	I	ОК		Q				•	4			4					
	11-05	I	ОК		Q				•	5			5					
	11-22	М	ОК							4		4						
11	11-26	R	ОК							26	26							
	11-35	М	ОК	ОК	Q	Q	0	Х	•	13		13						
	11-80	I	OK							1							1 Triax	
	11-81	-	OK							1							1 Qdx	
	11-98	I	OK	ОК	Q	Q	0	Х	•	6			6					
	11-99	ı	ОК	ОК	Q				•	7			7					
	13-03	I	ОК	ОК						3				3				
	13-04	I	OK		Q		0		•	4				4				
	13-08	I	OK		Q				•	8			8					-
13	13-26	М	OK		_	_				8		6			2			
	13-35	M	OK	OK	Q	Q	0	X	•	22	40	22						
	13-43	R	OK	01/				V	_	43	43		10					—
	13-98	l "	OK	ОК	Q	Q	0	X	•	10			10	5				
	15-05 15-15	II I	OK OK		Q		0	X	•	5 15			14	1				
	15-18	'	ОК	ОК	Q	Q	0		•	18			18	<u>'</u>				
15	15-19	i	ОК	ОК	Q	Q	0	Х	•	19			19					
	15-35	M	ОК	ОК	Q	Q	0	X	•	37		37	17					
	15-97	1	ОК	ОК	Q	Q	0	X	•	12		0,	8	4				
	17-02	М	ОК			_				39		38					1 Triax	
	17-06	ı	ОК	ОК	Q	Q	0		•	6			6					
	17-08	II	ОК		Q		0	Х	•	8				8				
	17-20	М	ОК							20		16			4			
	17-22	М	ОК							4					2		2 Triax	
47	17-26	I	ОК	ОК	Q	Q	0	Х	•	26			26					
17	17-35	М	ОК	ОК	Q	Q	0	Х	•	55		55						
	17-75	М	ОК						•	2							2 Triax	
	17-80	-	ОК							4					2		2 Qdx	
	17-81	-	ОК							39		38					1 Qdx	
	17-82	-	ОК							2							2 Qdx	
	17-99	I	ОК	ОК	Q	Q	0	X	•	23			21	2				
	19-11	II	ОК		Q		0	Х	•	11				11				
	19-18	М	ОК							18		14					4 Triax	
19	19-28	I	OK	OK	Q				•	28			26	2				
	19-32	1	OK	OK	Q	Q	0	X	•	32			32	-				
	19-35	М	OK	OK	Q	Q	0	X	•	66		66						
	19-84	-	OK							18		14					4 Qdx	

OK SOURIAU's layout

Q Qualified layout (QPL) MIL - DTL 38999

(1) Available MS27466 & MS27467 & MS27468 & MS27656

O Layout according to UTE C 93-422 norm

X Qualified Layout HE308 for «Ministère de la Défense» DGA DTAT

Layout according to C5935X0005 norm

#8 Qdx: Quadrax

Contact layouts (matrix)

Shell					MIL-DTL-3	8999 (QPL)		HE 308		Nber of								
Size	Layout	Service	8LT	8LT2	MS (1)	MS27505	Not	Rack	Rack	Contacts	#26	#22D	#20	#16	#12	#10	# 8	#4 Power
	21-11	1	ОК		Q		0	Х	•	11					11			
	21-16	П	ОК	ОК	Q	Q	0	Х	•	16				16				
	21-35	М	ОК	ОК	Q	Q	0	Х	•	79		79						
	21-39	ı	ОК	ОК	Q	Q	0		•	39			37	2				
	21-41	ı	ОК	ОК	Q	Q	0	Х	•	41			41					
24	21-42	I	ОК							2								2
21	21-48	I	ОК							4							4 Pow	
	21-72	I	ОК							8				6				2
	21-75	-	ОК		Q				•	4							4 Triax	
	21-77	М	ОК							19		17					2 Triax	
	21-78	-	ОК							19		17					2 Qdx	
	21-84	-	OK							4							4 Qdx	
	23-21	Ш	OK		Q		0		•	21				21				
	23-32	1	ОК	ОК	Q	Q				32			32					
23	23-35	М	ОК	ОК	Q	Q	0	X	•	100		100						
23	23-53	I	ОК		Q		0	Х	•	53			53					
	23-54	М	ОК							53		40		9	4			
	23-55	I	ОК		Q				•	55			55					
	25-04	I	ОК		Q	Q				56			48	8				
	25-07	М	OK		Q					99		97					2 Triax	
	25-08	-	ОК							8							8 Triax	
	25-11	N	OK							11			2			9		
	25-19	I	OK		Q		0	X		19					19			
	25-24	II	OK		Q					24				12	12			
	25-29	I	OK		Q		0	X		29				29				
	25-35	М	OK	ОК	Q	Q	0	Х		128		128						
25	25-37	I	OK							37				37				
23	25-41	N	OK							41		22	3	11	2		3 Triax	
	25-43	ı	OK		Q					43			23	20				
	25-44	ı	OK							8				4				4
	25-46	ı	OK		Q					46			40	4			2 Coax	
	25-61	ı	OK		Q		0	X		61			61					
	25-81	N	OK							41		22	3	11	2		3 Qdx	
	25-82	М	OK							99		97					2 Qdx	
	25-86	I	ОК							46			40	4			2 Qdx	
	25-88	-	OK							8							8 Qdx	
	25-90	I	ОК							46			40	4			2 Triax	

- OK SOURIAU's layout
- Q Qualified layout (QPL) MIL DTL 38999
- (1) Available MS27466 & MS27467 & MS27468 & MS27656
- O Layout according to UTE C 93-422 norm
- X Qualified Layout HE308 for «Ministère de la Défense» DGA DTAT
- Layout according to C5935X0005 norm
- #8 Pow: Power; Qdx: Quadrax



8LT Series

Series

	8LT Standard Version	16
Τ		
	Backshells	24
	8LT Rack & Panel	28
	8LT Resin Sealed	32



Description

- High contact density
- Bayonet coupling
- Contact protection: 100% Scoop proof
- Shell size from 9 to 25
- Accessories available (protective caps, backshells, etc...)
- RFI EMI shielding and shell to shell continuity
- Hermetic
- Aluminum alloy, protection by cadmium, nickel, green zinc cobalt or black zinc nickel plating

Applications

- Civil and Military Aerospace
- Marine Equipments
- Communications Equipements
- Medical Instrumentation
- Ballistic Missiles & Weapon Systems

Technical features

- Armored Carriers & Tanks
- Test Equipments

Mechanical

• Shell: aluminum alloy

• Plating: . black zinc nickel (Z)

. nickel (F)

. olive green cadmium (B)

. green zinc cobalt (ZC)

• Insulator: thermoplastic or metallic version

• Grommet or seal: liquid silicone rubber or

fluorocarbone elastomer for specification 022

available for specification 284 & 384

- Shock: 300 g during 3 ms and as per MIL S 901 grade A
- Vibration: . Sine 10 to 2000 Hz 30 g
 - . Random 100 à 300 Hz 5 g²/Hz
- Contact retention (min force in N):

Contacts size	22	20	16	12	8	4
Min force in N	44	67	111	111	111	200

Electrical

• Test voltage (Vrms)

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

- Insulation resistance: \geq 5 000 M Ω (at 500 Vdc)
- Contact resistance:

Contacts size	26	22	20	16	12	8	4
Resistance m Ω	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

ullet Shell continuity: . black zinc nickel: 2.5 m Ω

. olive green plating: 2.5 m Ω

. nickel plating: $1 \text{ m}\Omega$

. green zinc cobalt: $2.5~\text{m}\Omega$

- Shielding: 90 db at 100 MHz, 50 db at 10 000 MHz
- Electrical continuity between contact and shell for specification 284 & 384: 10 $\text{m}\Omega$

Climatic

- Temperature range:
- . black zinc nickel plating (Z)
 - 65°C +175°C
- . olive green cadmium plating (B)
 - 65°C +175°C
- . nickel plating (F)
 - 65°C +200°C
- . green zinc cobalt plating (ZC)
 - 65°C +200°C
- Sealing: mated connectors Differential pressure 1 bar: leakage ≤ 16 cm³/h
- Salt spray as per:
- . MIL STD 1344 method 1001 :
 - 500 hours (plating B, ZC and Z)
 - 48 hours (plating F)
- . NFC 93422
 - 48 hours (plating F)
- Resistance to fluids
- . As per MIL DTL 38999, hydraulic fluids,
- . Specification 022 for fuel immersion (please consult us)



500 mating / unmating operations

• Plating contact: gold over nickel

• Contact: copper alloy

Ordering information

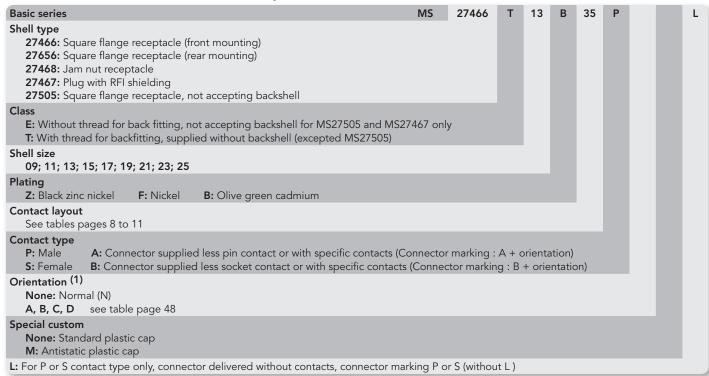
Basic series	8LT	0	13	В	35	Р	N	
Shell type 0: Square flange receptacle 1: In line receptacle 2: Short square flange receptacle, not accepting backshell 3: Square flange receptacle (rear mounting) 5: Plug with RFI shielding 7: Jam nut receptacle 15: Plug with RFI shielding, not accepting backshell	ÖLİ	U	13	В	33	r	19	
Type -: Connector with standard crimp contacts L: Connector with long PC tail (male and female #22D) M: Connector with medium PC tail (please see page 38) C: Connector with short PC tail (male and female #22D, #20, #16, #12 T: Connector with male contact size 20 for wire wrap (2 wraps) W: Connector with male contact size 22D for wire wrap (3 wraps) S: Connector with specific PC Tail (male and female #22D only) Q: Connector with quadrax crimp contacts P: Connector with solder cup: . Pin: #22D & #16; Socket: #12 . Socket: #22D & #16; Pin: #12 - Please co		ax)						
Shell size 09; 11; 13; 15; 17; 19; 21; 23; 25								
Plating Z: Black zinc nickel F: Nickel B: Olive green cadmium ZC: Green zinc cobalt								
Contact layout See tables pages 8 to 11								
Contact type P: Male A: Connector supplied less pin contact or with specific contacts (Conn S: Female B: Connector supplied less socket contact or with specific contacts (Connector supplied less socket contact or with specific contacts)								
Orientation (1) N, A, B, C, D see table page 48								
Specifications None: Supplied with contact 046: PC Tail contact with tinned plating 251: Connector provided with power contacts with layout contacts #8 022: Fuel tank Please consult us 284: Quadrax grounded PC tail contact, type L, C & S only $(100\Omega)^{(2)(3)}$ 308: Quadrax not grounded PC tail contact, type L, C & S only $(100\Omega)^{(2)(3)}$ 620: Quadrax grounded crimp contact, type Q only $(100\Omega)^{(2)(3)}$ 621: Quadrax not grounded crimp contact, type Q only $(150\Omega)^{(2)}$ 384: Quadrax grounded crimp contact, type Q only $(150\Omega)^{(2)}$								
Special custom None: Standard plastic cap M: Antistatic plastic cap								
L: For P or S contact type only, connector delivered without contacts, cor			 					

⁽¹⁾ Orientations B & C not developped for shell size number 9.

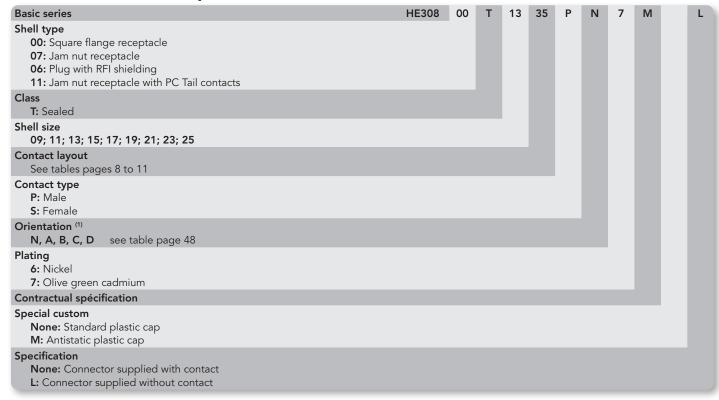
⁽²⁾ Type shell 0, 3 and 5 available only.

⁽³⁾ Excepted mixed layouts with quadrax and signal contacts. Please consult us.

MIL-DTL-38999 connector part numbers



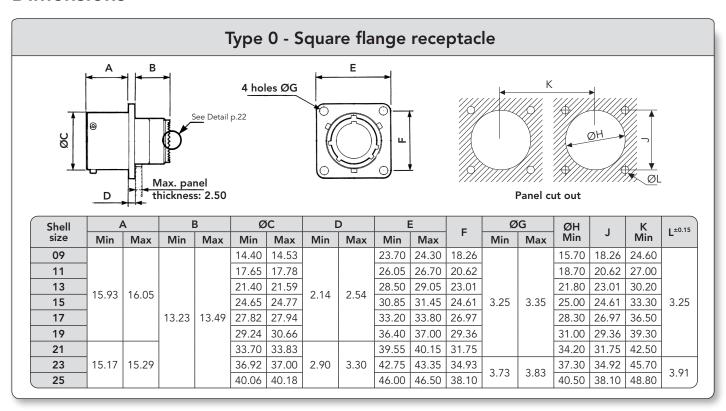
HE 308 connector part numbers

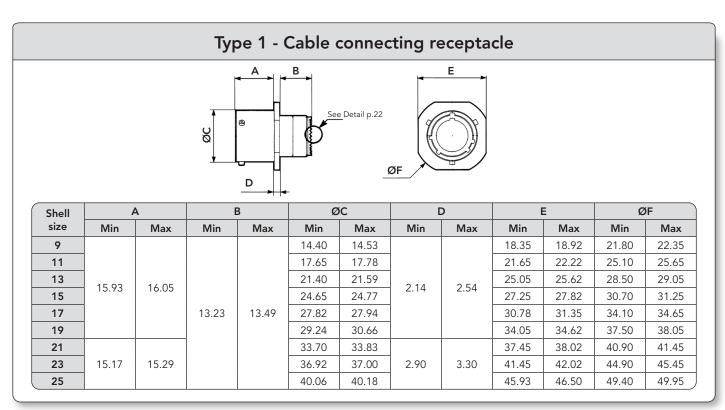


(1) Orientations B & C not developped for shell size number 9.

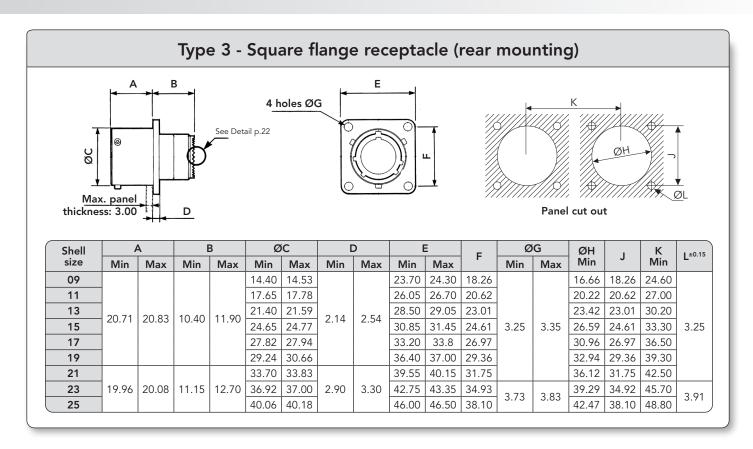


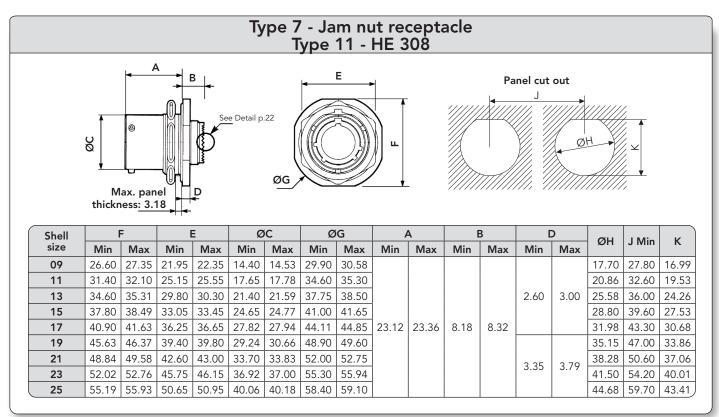
Dimensions





Note: All dimensions are in millimeters (mm)

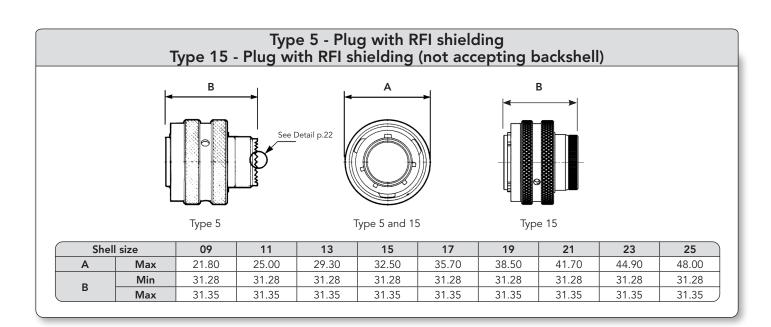




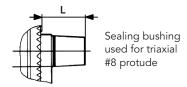
Note: All dimensions are in millimeters (mm)



Type 2 - Short square flange receptacle (not accepting backshell) 4 holes ØH Panel cut out 8 Ø ğ Е G В ØС ØD ØН Ε G Shell F ØΚ ØL Max Min Max Min Max Max Min Max Max Min Min Max Min Min 09 14.40 14.53 9.85 9.95 18.26 23.70 24.30 18.26 16.66 17.65 17.78 12.90 20.62 26.05 26.70 20.62 20.22 11 12.80 13 21.40 21.59 16.00 16.10 23.01 28.50 29.05 23.01 23.42 20.71 20.83 5.40 5.55 2.14 2.54 15 24.65 24.77 18.95 19.05 24.61 30.85 31.45 3.25 3.35 24.61 26.59 3.25 17 27.82 27.94 22.10 22.20 26.97 | 33.20 | 33.80 26.97 30.96 19 29.24 30.66 25.10 25.20 29.36 36.40 37.00 29.36 32.94 28.35 33.70 33.83 28.25 31.75 39.55 40.15 31.75 36.12 21 2.90 34.93 42.75 43.35 39.29 19.96 20.08 37.00 31.40 31.50 23 6.15 6.35 36.92 3.30 34.92 3.73 3.83 3.91 25 40.06 | 40.18 | 34.60 | 34.70 38.10 46.00 46.50 38.10 42.47



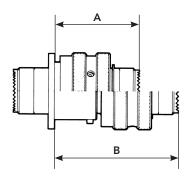
Detail

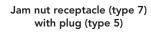


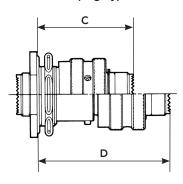
Shell Type	Туре 0	Type 1	Туре 3	Type 5	Type 7
L max	13.39	13.58	13.58	13.54	13.58

Mated connectors dimensions

Square flange receptacle (type 0) with plug (type 5)



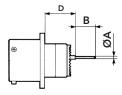




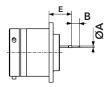
Shell Size	A Max	B Max	C Max	D Max
09				
11	33.30			
13		47.40		
15		47.40	47.40	
17			40.60	54.70
19				
21				
23	32.50	46.70		
25				

Receptacle with PC Tail contact

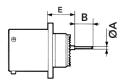
Type 0 Square flange receptacle



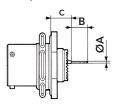
Type 2 Short square flange receptacle



Type 3 Square flange receptacle (rear mounting)



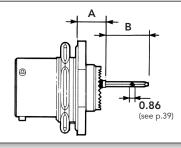
Type 7
Jam nut receptacle



(1) M: Male Contact F: Female Contact (2) C: Short PC tail M: Medium PC tail L: Long PC tail S: Specific PC tail

		Shell Size Contact PC tail												
	Contact size	Contact type (1)	conta	ct (2)	09	11	13	15	17	19	21	23	25	
		M & F	E C&						0.70					
~ .	#22D		S						0.50					
ØA	#20	M	M		0.50									
	#20	M & F		C					0.70					
	#16	M & F	C						4.0.20					
		M & F	S						5±0.1					
	#22D	IVI CC I	L						8.5.8.20					
В		М	M						6±0.1					
	#20	M & F	C						5±0.1					
	#16	M & F	C			5±0.1								
			C 0 1	Max					10.06					
			C & L	Min					9.07					
	8LT #22D	М	м	Max					10.21					
			IVI	Min					9.23					
		F	C&L	Max					10.06					
C		'	CUL	Min					8.74					
type 7	8LT7S HE308 #22D	М	S	Max	10.23									
			S	Min										
		F		Max					10.23					
	017#15000			Min					8.91 10.23					
	8LT/HE308 #20 & #16		M & F	M & F	M & F	С	Min					9.24		
	1120 00 11 10	20 & #16		Max					15.08					
			C & L	Min										
		М		Max					15.22					
				Min					14.05					
	#22D	-	601	Max										
D	#22D	F	C&L	Min					13.58					
type 0		М	S	Max	15.25				-				15.25	
		IVI	IVI 3		14.08 -				14.08					
		F	S	Max	15.25 -			15.25						
				Min	13.75 -				13.75					
	#20 & #16	M & F	С	Max					15.25					
				Min Max			10	.47	14.08			13.22		
		М	C & L	Min				.60				12.35		
				Max				.47				13.22		
_		F	C & L	Min				.27				12.02		
Ε .	#22D		_	Max	12.64			-		12.64		13.39		
type 2		М	S	Min	11.77					11.77		12.52		
type 3		F	,	Max	12.64			_		12.64		13.39		
		F	S	Min	11.44					11.44		12.19		
	#20 & #16	M & F	С	Max				.64				13.39		
	#20 X #10	IVI CX I	C	Min			11	.77				12.52		

Type 7 receptacle with wire wrap contacts

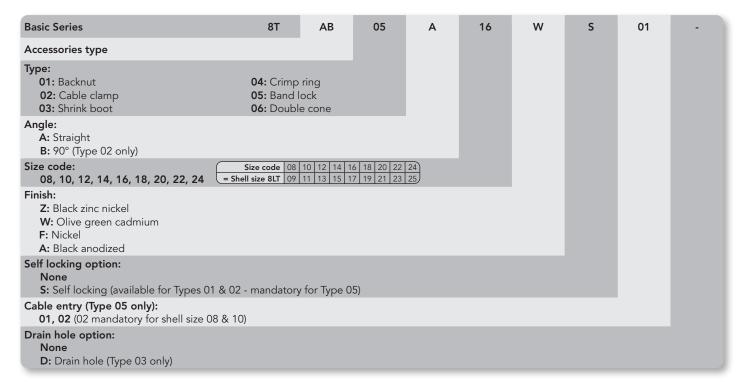


Contact size	Contact type	A	В Мах		
#22D	W (3 wraps)	9.07 / 10.06	16.00		
#20	T (2 wraps)	9.7 / 10.06	12.60		

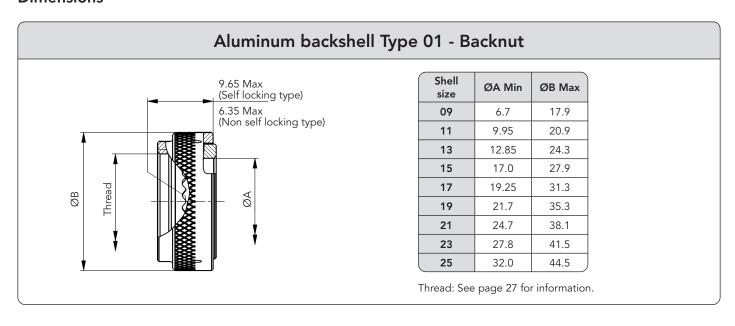
Note: All dimensions are in millimeters (mm)

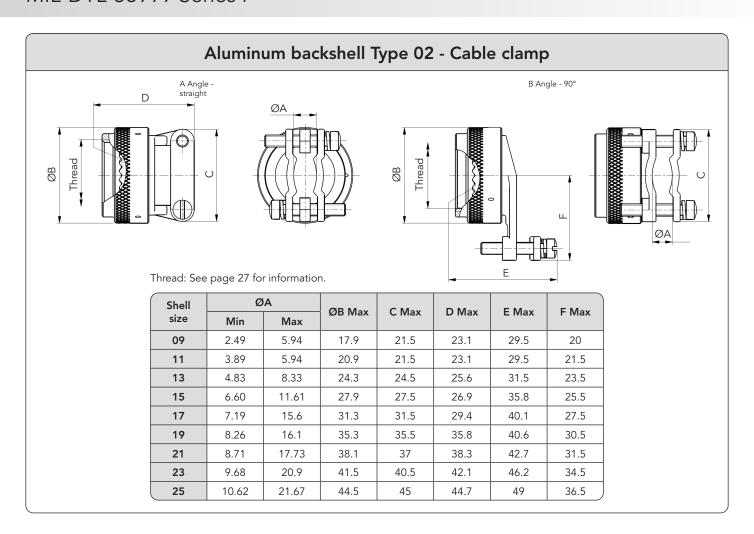
Aluminum backshells

Ordering information

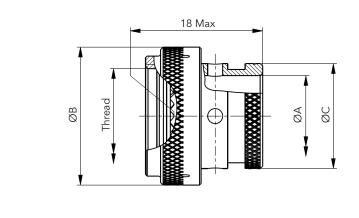


Dimensions





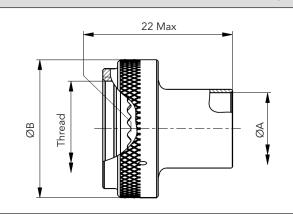
Aluminum backshell Type 03 - Shrink boot



Shell size	ØA Min	ØB Max	C Max
09	6.7	19.0	11.3
11	11 9.95		14.9
13	12.85	25.3	17.8
15	16.05	29.1	21.27
17	19.2	31.7	24.3
19	21.5	35.5	26.4
21	24.7	39.3	30.8
23	27.8	41.8	34.1
25	31	46.9	36.6

Thread: See page 27 for information.

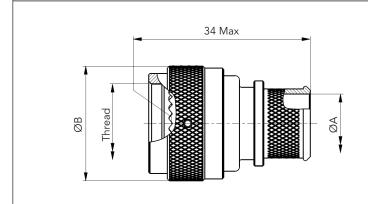
Aluminum backshell Type 04 - Crimp ring



Shell size	ØA Min	ØB Max
09	6	17.9
11	8.2	20.9
13	10.5	24.3
15	13.6	27.9
17	16.9	31.3
19	20	34.3
21	23.2	38.1
23	26.1	41.5
25	28.1	44.4

Thread: See page 27 for information.

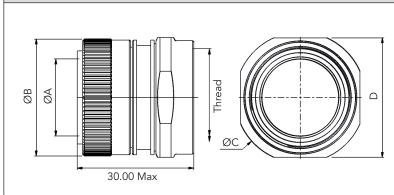
Aluminum backshell Type 05 - Band lock



Shell size	ØA Max -	Entry size	ØB Max	
Shell size	01	02	DD IVIAX	
09	-	6.6	17.9	
11	-	8	24.9	
13	8	11.2	29.3	
15	11.2	14.4	32.4	
17	12.8	16	35.6	
19	16	19.1	38.4	
21	16	20.7	41.6	
23	17.6	23.9	44.8	
25	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 ^{±0.07}	ØB ^{±0.12}	ØC ^{±0.12}	D ^{±0.07}
09	7.1	15.55	19.35	16.7
11	10.25	18.45	23.35	20.7
13	13.05	21.85	25.35	22.7
15	15.25	25.05	28.35	25.7
17	18.45	28.05	31.35	28.7
19	20.65	31.05	34.35	31.7
21	23.85	34.45	38.35	35.7
23	26.95	37.45	41.35	38.7
25	30.15	40.75	44.35	41.7

Thread: See page 27 for information.

Note: All dimensions are in millimeters (mm)



Thread information

Shell size	UNEF Thread
09	7/16-28 2B
11	9/16-24 2B
13	11/16-24 2B
15	13/16-20 2B
17	15/16-20 2B
19	1 1/16 -18 2B
21	1 3/16 -18 2B
23	1 5/16 -18 2B
25	1 7/16 -18 2B

Recommended installation torque

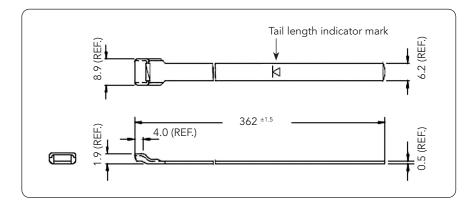
Shell Size	Installation Torque (Inch-Pounds)
09	40
11	40
13	40
15	40
17	40
19	40
21	80
23	80
25	80

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

Band-it

Designation	Designation Flat stainless steel standard band		Hand banding tool		
Part number	M85049/128-3	M85049/128-4	8599-9346		





MIL specification

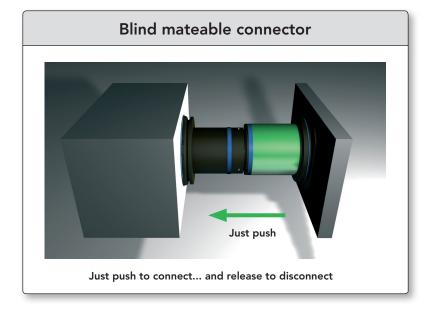
For aluminum bachshells MIL specification, please consult us.



Rack and Panel

- Signal and Power connector
- Easy and fast connection without any coupling/uncoupling between a floatmounting unit and a fixed unit.
- 100% scoop proof
- Plug misalignment allowed
- Rear accessories available
- 8 shell sizes available: from 11 to 23 with DTAT-C5935-X0005 layout - including power contact cavities
- Sealing as per HE 308
- EMI performances as per DTAT-C5935-X0005

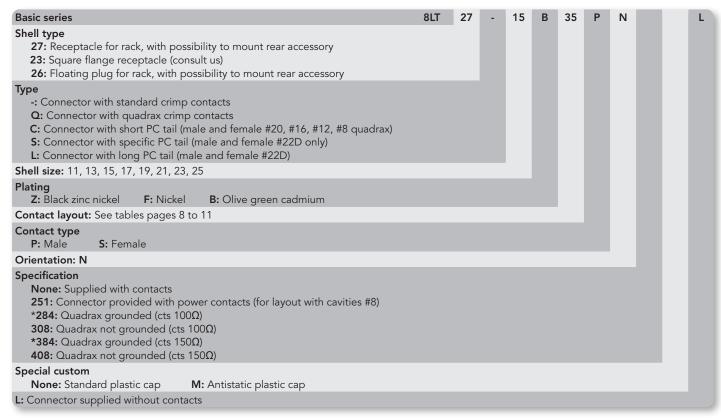
Shell Size	Mated Force (daN)	Unmatted Force (daN)
11	20	12
13	30	13
15	35	15
17	50	16
19	55	18
21	65	22
23	80	27
25	-	-





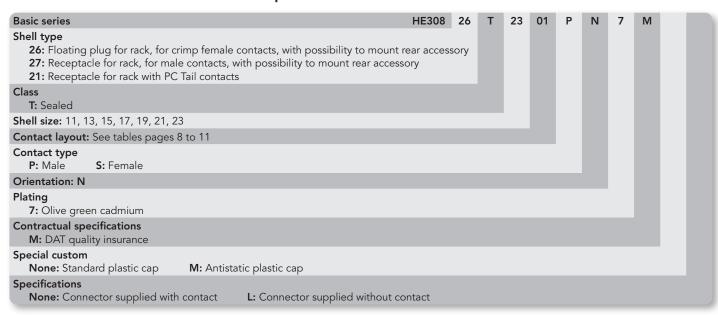
Rack and Panel - Ordering information

SOURIAU Rack and Panel connectors part numbers



^{*}Excepted mixted layouts with quadrax and signal contacts. Please consult us.

HE 308 Rack and Panel connectors part numbers



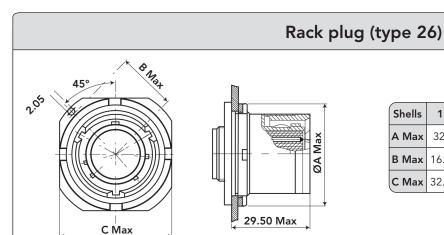
Rack and Panel - Dimensions

Equipment receptacle (type 27) | Shells | 11 | 13 | | A Max | 15.33 | 16.92 | | B Max | 32.16 | 35.34 | | C | 25.55 | 30.3 |

Shel	ls	11	13	15	17	19	21	23	25
A Ma	эх	15.33	16.92	18.51	20.1	22.67	24.26	25.84	27.43
ВМа	эх	32.16	35.34	38.51	41.69	46.43	49.64	52.78	56
С		25.55	30.3	33.45	36.65	39.8	43	46.15	50.95

Square flange receptacle (type 23) A Shells 09 11 13 A Min 23.7 26.05 28.5 3 A Max 24.3 26.7 29.05 3 B 18.26 20.62 23.01 2 ØC Min ØC Max

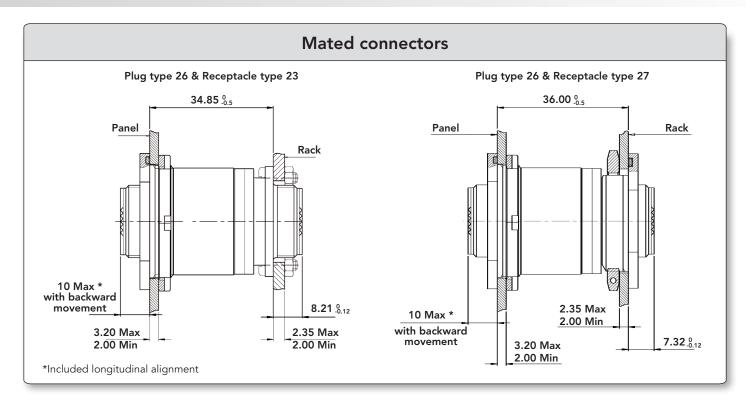
Shells	09	11	13	15	17	19	21	23	25
A Min	23.7	26.05	28.5	30.85	33.2	36.4	39.55	42.75	46
A Max	24.3	26.7	29.05	31.45	33.8	37	40.15	43.35	46.5
В	18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93	38.1
ØC Min	3.25							3.73	
ØC Max	3.35 3.83								

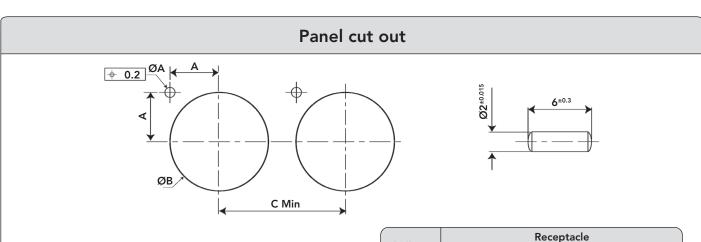


Shells	11	13	15	17	19	21	23	25
A Max	32.1	35.25	38.4	41.6	46.3	49.6	52.7	55.9
B Max	16.92	18.51	20.1	22.67	24.26	25.84	27.43	29.03
C Max	32.16	35.34	38.51	41.69	46.43	49.64	52.78	55.96

Note: All dimensions are in millimeters (mm)







Shell size	Plug					
Jileli Size	Α	ØB ^{±0.1}	C Min	ØA		
11	12.81	25.58	32.57			
13	13.94	28.80	36			
15	15.06	31.98	39.60			
17	16.88	35.15	43.30	3.0		
19	18	38.28	47	2.0.05		
21	19.12	41.50	50.60			
23	20.24	44.68	54.20			
25	21.38	47.85	57.45			

Shell size	Receptacle						
Sileii Size	Α	ØB ^{±0.1}	C Min	ØA			
09	10	17.70	27.80				
11	11.69	20.86	32.57				
13	12.81	25.58	36				
15	13.94	28.80	39.60				
17	15.06	31.98	43.30	2 _{-0.05}			
19	16.88	35.15	47				
21	18	38.28	50.60				
23	19.12	41.50	54.20				
25	20.24	44.68	59.70				

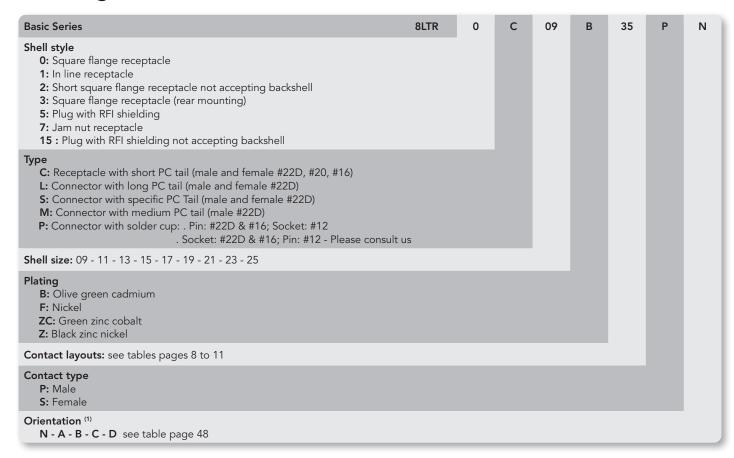
Note: All dimensions are in millimeters (mm)



Cost effective & light hermetics Resin sealed

- Potted receptacle with male or female straight PC tail contacts
- 100% scoop proof: no interference when mating the connector, contacts never touch each other
- Weight saving compared to hermetic version
- Reinforced sealing for harsh environment (10E-7 atm.cm³/s)
- Good shock resistance better than hermetic glass seal
- Female contacts available for the receptacle
- PC Tail from #22D to #16 (for all other contacts please consult us)

Ordering information



(1) Orientation B & C not developed for shell size number 9





8LT Series

Contacts & Tooling

Contacts:	
Crimp contacts Straight PC tail contacts Coaxial contacts #12 Solder cup Crimp contacts: 1500 mating Wire wrap contacts Quadrax #8 contacts Thermocouple contacts Dummy contacts Filler plugs	36 38 39 39 39 39 40 40
Wiring instructions	41
Tooling:	
Crimping tools	42 43 43 43 43

Tightening of fixing nuts, receptacle type 7.....

Crimp contacts

Contact size	Contact type	Souriau Part number	MIL-DTL-38999 contacts			
Contact size	Contact type	(without color code)	Part number	Profile and color code		
#26	Pin	8599-0297	-			
	Socket	8599-0298	-			
#22D	Pin	8599-0702 JJ	M39029/58 360	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□		
	Socket	8599-0706 900	M39029/56 348	Grey / Yellow / Orange		
#20	Pin	8599-0703 SA	M39029/58 363	Orange / Blue / Orange		
"20	Socket	8599-0707 900	M39029/56 351	□ ■ Brown / Green / Orange		
#16	Pin	8599-0704 MJ	M39029/58 364	Yellow / Blue / Orange		
#10	Socket	8599-0708 900	M39029/56 352	Red / Green / Orange		
#16 Coaxial	Pin	-	M39029/76 424	Yellow / Red / Yellow		
#10 COaxiai	Socket	-	M39029/77 428	Grey / Red / Yellow		
#12	Pin	8599-0705 MJ	M39029/58 365	Green / Blue / Orange		
#12	Socket	8599-0709 900	M39029/56 353	Orange / Green / Orange		
	Pin	-	M39029/102 558			
#12 6	Socket	-	M39029/103 559			
#12 Coaxial	Pin	-	M39029/28 211			
	Socket	-	M39029/75 416			
"40 D	Pin	-	M39029/58 528			
#10 Power	Socket	-	M39029/56 527			
	Pin	8599-7544 *	-			
	Socket	8599-7541 *	-			
	Pin	8599-7580	-			
#8 Power	Socket	8599-7581	-			
	_	8599-4542	-	For wire #8		
	Boot	8599-4547	-			
	Reductor	8599-7645	-	For wire #10		
	Pin	-	M39029/60 367			
#8 Coaxial	Socket	-	M39029/59 366			
	Boot	8590-4571	-			
	Pin	-	M39029/90 529			
#8 Twinax	Socket	-	M39029/91 530			
	Boot	8590-4571	-			
	Pin	8599-7598 900 **	-			
	Socket	8599-7599 900 **	-	For wire 25 mm ²		
	Pin	8599-7534	-	_		
#4 Power	Socket	8599-7535	-	For wire 21.15 mm ²		
	for cable	8599-4594	-			
	Boot for cable	8599-4593	-			
	Reductor cable	8400-2351A	-			
	10 mm² Pin	8599-7528 900	-			
#4 Power with reduced	Socket	8599-7529 900	-	Mating part #4 / Barrel #6		
barrel	Boot	8599-7529 900 8599-4593	-			
1)/C	DUOT	0077-4075	-			

^{. **} Not included in connector Part number. Must be ordered separately.



Crimp contacts

Contact size	Contact type	Contact Ø		section AWG		section mm²		over insulator
			Min	Max	Min	Max	Min	Max
#26	Pin Socket	0.50	30	24	0.055	0.215	0.60	0.83
	Pin							
#22D	Socket	0.76	26	22	0.012	0.34	0.76	1.37
	Pin							
#20	Socket	1.00	24	20	0.21	0.60	1.02	2.11
	Pin							
#16	Socket	4.40	20	16	0.60	1.34	1.65	2.77
W4/ C : 1	Pin	1.60			174		4.75	2 (0
#16 Coaxial	Socket				179 316		1.65	2.60
#12	Pin		14	12	1.91	3.18	2.46	3.61
#12	Socket		14	12	1.71	3.10	2.40	3.01
	Pin	2.40						
#12 Coaxial	Socket	2.40			174 179		2.40	2.60
#12 COaxiai	Pin			RG	2.40	2.00		
	Socket							
#10 Power	Pin	3.20		Please o		_	2.95	
	Socket	0.20		1 10000	Torrisare as	Γ		2.70
	Pin							
			-	8	_	8.98	-	_
	Socket							
#8 Power								
	Boot	3.64	-	-	-	-	4.50	6.50
			-	-	-	-	2.50	4
	Reductor		-	-	-	-	-	-
#0 C	Pin			DC 11	20 4 / 1			2.00
#8 Coaxial	Socket			RG 18	-	2.80		
	Boot			0.76MIL C1	7/176 00002			
#8 Twinax	Pin Socket	5.50		FILECA I	F.2703/14		3.15	3.40
#O IWIIIAX	Boot	3.30		RAYCHEM CH	3.13	3.40		
	Pin			I ILOTEX IVI	17/176 00002			
	Socket		-	3	-	25	-	-
	Pin							
#4 Power	Socket		5	4	16	21.15	-	-
	Available for		-	-	-	-	6.35	7.50
	Boot and 7535 contacts	5.74	-	-	-	-	4	5.80
	Reductor cable		-	-	-	-	-	-
	10 mm² Pin			1				
#4 Power with	Socket			6	13	3.3	-	-
reduced barrel	Boot		-	-	-	-	4	5.80
			1	1	I	I	1	

Straight PC tail contacts

Contact size	Contact type	PC tail type	Part number	Profile
	Pin	L	8599-0720 900	
	Pin	М	8599-8028 900	-
	Pin	С	8599-0730 900	
#22D	Pin	S	8599-0796 900	
	Socket	L	8599-0721 900	
	Socket	С	8599-0731 900	
	Socket	S	8599-0797 900	
	Pin	М	8599-0658 JJ	-
	Socket	М	8599-0759 900	-
#20	Pin	С	8599-0724 900	
#20	Socket	С	8599-0725 900	
	Pin	L	8599-0771 900	-
	Socket	L	8599-0772 900	-
#16	Pin	С	8599-0726 900	
#10	Socket	С	8599-0727 900	
Coaxial #16	Pin	С	8599-1000A 900	000
#12	Pin	С	8599-7929 900	-
#12	Socket	С	8599-7932 900	-

S: Specific PC tail L: Long PC tail M: Medium PC tail C: Short PC tail

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 contacts type please consult us.

Crimp contacts: 1500 mating

Contact	MIL-DTL-38999 contacts							
size	Contact type	Part number	Color code					
#22D	Pin (H)	M39029/107 620	Blue / Red / Black					
#220	Socket (J)	M39029/106 614	Blue / Brown / Yellow					
#20	Pin (H)	M39029/107 621	Blue / Red / Brown					
#20	Socket (J)	M39029/106 615	Blue / Brown / Green					
#16	Pin (H)	M39029/107 622	Blue / Red / Red					
#10	Socket (J)	M39029/106 616	Blue / Brown / Blue					
"40	Pin (H)	M39029/107 623	Blue / Red / Orange					
#12	Socket (J)	M39029/106 617	Blue / Brown / Gray					

Wire wrap contacts

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

Quadrax #8 contacts

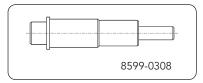
Contact type	Version	Souriau Part Number	Cross Norm	T°	Impedance	Sealing	Release
	DCD	ETH1-1237A	-	125°C	100Ω		
D:	PCB mount	ETH1-1501A	-	125 C	150Ω	150Ω $100Ω$ $150Ω$ Sealed	
Pin	Crimp	ETH1-1345A	EN3155-074	200°C	100Ω		
		ETH1-1503A	-	200 C	150Ω		Rear
	DCD	ETH1-1238A	-	125°C	100Ω	Sealed	Real
Socket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

Thermocouple contacts

Contact	Contact Contact Souriau part		MIL-	MIL-DTL-38999 contacts			Wire section				Over ation	
size	type	numbers (wit- hout color code)	Part numbers	Profile and color code	Contact (mm)	A۱	vg	m	m²	(m	m)	
		,	raitiumpers	Frome and color code	(,	min	max	min	max	min	max	
#22D	Pin	-	M39029/87-472	Red / Violet / Yellow								
Chromel	Socket	-	M39029/88-484	Yellow / Grey / Yellow	0.75 28				0.095		0.76	4.0-
#22D	Pin	-	M39029/87-471	Brown / Violet / Yellow	0.75	20	22	0.095	0.34	0.76	1.37	
Alumel	Socket	-	M39029/88-483	Orange / Grey / Yellow								
#20	Pin	8599-0749 900	8599-0949 900	Blue / Violet / Yellow			20		0.6		2.11	
Chromel	Socket	8599-0753 900	8599-0953 900	Grey / Grey / Yellow	1	24		0.21				
#20	Pin	8599-0761 900	8599-0961 900	Green / Violet / Yellow	1	24				1.02		
Alumel	Socket	8599-0765 900	8599-0965 900	Violet / Grey / Yellow								

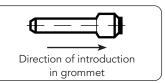
Dummy contacts

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



Filler plugs

Contact	MS (Rev.	N)	Souriau			
size	Part number Color		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		

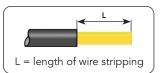


These filler plugs are installed at the rear of unwired contact to maintain connector sealing.

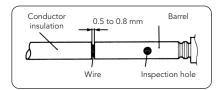
Wiring instruction

Cable preparation and wire stripping

Contact size	#26	#22D	#20	#16	#12	#8	#4
L	4	4		6		1	2



Insertion of wire in contact barrel



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

Important:

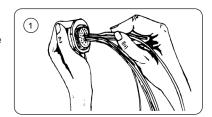
- Slide any accessories over wire strands before carrying out the following operations.
- Contacts are inserted and extracted from the rear of the connector.

Insertion of the contacts

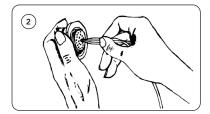
- 1 Engage the crimp cable / contact asembly into the longitudinal slot of the plastic tool (coloured tip).
 Slide the tool down the cable until the tip of the tool abuts the contact retention shoulder.

Extraction of the contacts

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



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



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



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.



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



Tooling

Crimping tools

Contact Contact size type		Plier M22520/1-01	Plier M22520/2-01 (Souriau 8476-01)	Plier M300BT	Plier * M22520/23-01			
		Turret Part number	Locator Part number	Locator Part number	Turret Part number	Locator Part number		
#26	Pin	-	8599-0397	-	-	-		
#20	Socket	-	8599-0398	-	-	-		
#22D	Pin	-	M22520/2-09	-	-	-		
#22D	Socket	-	M22520/2-07	-	-	-		
#20	Pin	M22520/4 04	M22520/2-10	-	-	-		
#20	Socket	M22520/1-04	10122320/2-10	-	-	-		
ш1 с	Pin	M22F20/1 04	-	-	-	-		
#16	Socket	M22520/1-04	-	-	-	-		
#12	Pin	M22520/1-04	-	-	-	-		
#12	Socket	10122320/1-04	-	-	-	-		
#0 Daa	Pin	-	-	SP 593	M22520/23-02	8599-9601		
#8 Power	Socket	-	-	3F 393	10122320/23-02	0377-9601		
#4 Dame:	pin	-	-	-	M22E20/22.04	M22E20/22 44		
#4 Power	Socket	-	-	-	M22520/23-04	M22520/23-11		

Contact size	Contact type	Plier M22520/2-01 (Souriau 8476-01)	Plier M22520/31-01	Plier M22520/4-01	Plier M22520/5-01
		Locator Part Number	Locator Part number	Locator Part Number	Die set Part Number
#12 Coaxial	Inner	-	-	-	M22E20/E 02
M39029/102-558 M39029/103-559	Outer	-	-	-	M22520/5-03
#12 Coaxial	Inner	M22520/2-34	-		
M39029/28-211 M39029/75-416	Outer	-	M22520/31-02	-	-
#4 / C	Inner	M22520/2-35	-	-	-
#16 Coaxial	Outer	-	-	M22520/4-02	-
#0.C : 1	Inner	M22520/2-31	-	-	-
#8 Coaxial	Outer	-	-	-	M22520/5-05 closure B
	Inner	K709	-	-	-
#8 Triaxial	Middle	-	-	-	Y631 closure B
	Ferrule	-	-	-	Y631 closure A

* Pneumatic plier Note: for the #10 contact's plier and locator, please consult us.

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Insertion & extraction tools

Contact	Material	Part n	umber	Color		
size	iviateriai	MIL standard	Souriau	Insertion	Extraction	
#26	Plastic	-	8599-0399 900	Black	White	
#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	
#0	Metalic	-	8660-197	-	-	
Д Д	Plastic	M81969/14-07	-	-	Blue	
#4	Metalic	-	8533-8175	-	-	

Backshell tightening tools

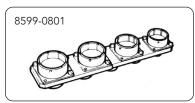


Backshell tightening pliers, part number: **8498-03** Square jaws (order 2 jaws), part number: **8500-1015**

Tightening of rear accessories:

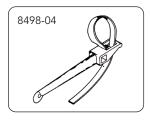
Shell size	9	11	13	15	17	19	21	23	25
Max torque in m/daN			0.	62				1.24	

Tightening support



Part number: **8599-0801**This tool is made up of dummy receptacles housings of all 9 sizes for all key polarisation, and secures free connectors during wiring and fitting of rear accessories.

Slackening tools



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

Tightening of fixing nuts, receptacle type 7

Shell size	09	11	13	15	17	19	21	23	25
Nut dimension across flats	22.35	25.55	30.30	33.45	36.65	39.80	43.00	46.10	50.95
Max tightening torque on nut (mN)	6	8	10	13	20	23	25	26	28



8LT Series

Common Section

	Protective caps	4
1	Reductors	
	Boots	4
	Orientations	4
İ	Panel gasket	48
1	Dummy receptacles	
Т	Cross reference list	
	Coordinates information	52

Protective caps

Metalic protective caps

Please consult Sunbank protective caps catalogs

Plastic protective caps

Shell size	Part numbers f	or standard cap	Part numbers for antistatic cap		
Shell size	Caps for receptacle	Caps for plug	Caps for receptacle	Caps for plug	
09	8500-5594	70609	MS90376-10RF	MS90376-14RF	
11	MS90376-12R	MS90376-16Y	MS90376-12RF	MS90376-16RF	
13	8500-5588A	8500-5600	8500-5588N	8500-5600N	
15	8500-5589A	8500-5601	MS90376-18YF	8500-5601N	
17	MS90376-20YF	8500-5602	MS90376-20YF	8500-5602N	
19	8500-5601	8500-5592A	8500-5601N	8500-5592N	
21	8500-5602	8500-5593A	8500-5602N	8500-5593N	
23	MS90376-24R	MS90376-24R	MS90376-24RF	-	
25	8500-5593A	J599ABC6009A00	8500-5593N	-	

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	

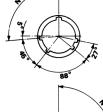
Boots

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

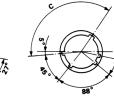
Orientations

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

View from front face of receptacle

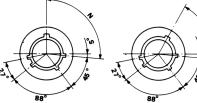


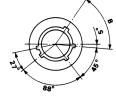


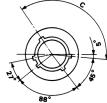


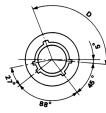


View from front face of plug







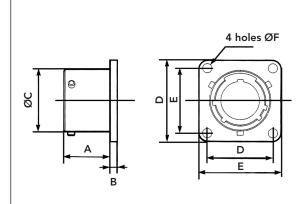


Shell size	Angles (degrees)								
Sileli Size	N	Α	В	С	D				
09	95	77	-	-	113				
11	95	81	67	123	109				
13	95	75	63	127	115				
15	95	74	61	129	116				
17	95	77	65	125	113				
19	95	77	65	125	113				
21	95	77	65	125	113				
23	95	80	69	121	110				
25	95	80	69	121	110				

Panel gasket

	Part numbers							
Shell size	Gasket for receptacle type 0, 2, 3 (to be ordered separately)	O ring for receptacle type 7 (shipped with connector)						
09	8599-5541	AS3582-019						
11	8599-5542	AS3582-022						
13	8599-5543	AS3582-024						
15	8599-5544	AS3582-026						
17	8599-5545	AS3582-028						
19	8599-5546	AS3582-128						
21	8599-5547	AS3582-130						
23	8599-5548	AS3582-132						
25	8599-5549	AS3582-134						

Dummy receptacles



Shell size	Part numbers*	A Max	B Max	ØC Max	D Max	E	ØF
09	8LT0-09GUR	16.05	0.54	14.53	24.25	10.07	3.25
09	8LTO-09FUR	16.05	2.54	14.55	24.25	18.26	3.23
11	8LT0-11GUR	16.05	2.54	17.78	26.60	20.62	3.25
11	8LT0-11FUR	16.05	2.54	17.76	20.00	20.02	3.23
42	8LT0-13GUR	17.05	2.54	24 50	20.00	22.01	2.25
13	8LT0-13FUR	16.05	2.54	21.59	29.00	23.01	3.25
15	8LT0-15GUR	1/ 05	2 5 4	24.77	31.35	24.61	3.25
15	8LTO-15FUR	16.05	2.54	24.77	31.33	24.01	3.23
17	8LT0-17GUR	16.05	2.54	27.94	33.75	26.97	3.25
17	8LT0-17FUR	16.05					
19	8LT0-19GUR	16.05	2.54	30.66	36.90	29.36	3.25
19	8LTO-19FUR	16.05	2.54	30.00			
21	8LT0-21GUR	15.29	3.30	33.83	40.10	31.75	3.25
21	8LT0-21FUR	13.29	3.30	33.03	40.10	31./5	3.23
22	8LT0-23GUR	15 20	2 20	27.00	42.25	24.02	2 72
23	8LT0-23FUR	15.29	3.30	37.00	43.25	34.93	3.73
0.5	8LT0-25GUR	15 20	2 20	40.10	46.50	38.10	0.70
25	8LT0-25FUR	15.29	3.30	40.18			3.73

Note: All dimensions are in millimeters (mm)



^{*} F or G = Plating. (F Nickel, G Olive green cadmium)

Cross reference list:

Part Numbers Souriau and Specifications : NFC 93422 / MIL DTL 38999

Connectors

SOURIAU	NFC 93422 HE 308	MIL DTL 38999 Serie I	Designation
8LT0● B ● ● P/SN 8LT0 ● F ● P/SN	HE30800T●●●P/SN7 M HE30800T●●●P/SN6 M	MS27466T●B●●P/S●* MS27466T●F●●P/S●*	Square flange receptacle
8LT1	- -	-	Cable connecting receptacle
8LT2● B ● ● P/SN 8LT2 ● F ● P/SN	-	MS27505E●●B●●P/S●* MS27505E●●F●●P/S●*	Square flange receptacle not accepting backshell
8LT3●●B●●P/SN 8LT3●●F●P/SN	-	MS27656T●B●●P/S●* MS27656T●●F●●P/S●*	Square flange receptacle (rear mounting)
8LT5●●B●●P/SN 8LT5●●F●P/SN	HE30806T●●●P/SN7 M HE30806T●●●P/SN6 M	MS27467T●●B●●P/S●* MS27467T●●F●●P/S●*	Plug with RFI shielding
8LT15● B ● P/SN 8LT15 ● F ● P/SN	-	MS27467E●●B●●P/S●* MS27467E●●F●●P/S●*	Plug with RFI shielding not accepting backshell
8LT7 ● B ● ● P/SN 8LT7 ● F ● ● P/SN	HE30807T●●●P/SN7 M HE30807T●●●P/SN6 M	MS27468T●B●●P/S●* MS27468T●F●●P/S●*	Jam nut receptacle
8LT7S●●B●●P/SN (#22D) 8LT7S●●F●●P/SN (#22D)	HE30811T●●●P/SN7 M HE30811T●●●P/SN6 M	-	Jam nut receptacle with PC Tail contacts
8LT7C●●B●●P/SN (#20, #16, #12) 8LT7C●●F●●P/SN (#20, #16, #12)	HE30811T●●●P/SN7 M HE30811T●●●P/SN6 M	-	Jam nut receptacle with PC Tail contacts
8LT26●●B●●P/SN 8LT26●●F●●P/SN	HE30826T●●●P/SN7 M -	-	Floating plug for rack HE308
8LT27 ● B ● P/SN 8LT27 ● F ● P/SN	HE30827T●●●P/SN7 M -	-	Receptacle for rack HE308 with possibility to mount rear accessories
8LT27S●B●●P/SN (#22D) 8LT27C●●B●●P/SN (#20, #16, #12)	HE30821T●●●P/SN7 M HE30821T●●●P/SN7 M	-	Receptacle for rack HE308 with PC Tail contacts
8LT23●●B●●P/SN	-	-	Square flange receptacle

^{*} Standard P/S : . None = N position,

Backshells

SOURIAU	NFC 93422 HE 308	MIL DTL 38999 Serie I	Designation
8TAB01A●●W● 8TAB01A●●F●	-	M8504927 ● • W M8504927 • • N	Backnut
8TAB02A●●W● 8TAB02A●●F●	- HE308-11●●26	-	Straight cable clamp
8TAB02B ● W ● 8TAB02B ● F ●	- HE308-12●●26	-	Elbow cable clamp
8TAB06●●W● 8TAB06●●F●	HE308-13●●17 HE308-13●●16	-	Backshell for screen termination and heatshrink sleeving

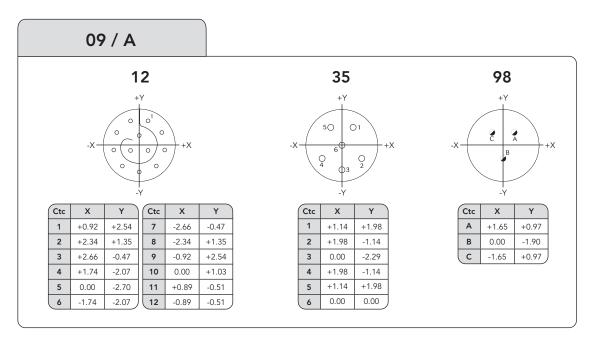
Contacts

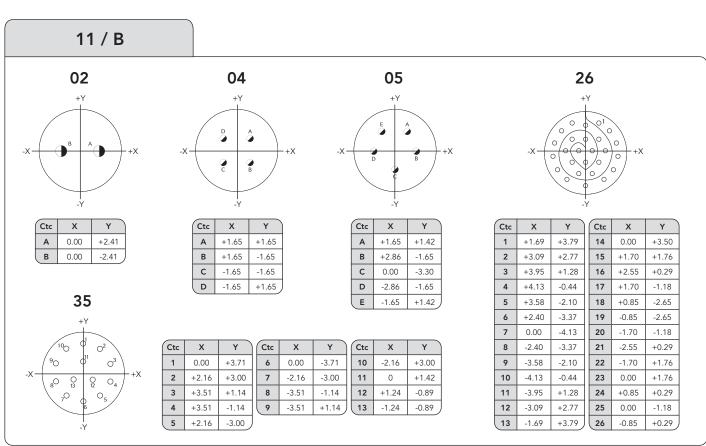
See page 35

[.] Use A,B,C,D for other orientations

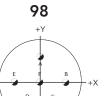
Coordinates for straight PC tail terminations Viewed from front face of male insulator

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





11 / B



Х	Υ
0.00	+3.30
+3.30	0.00
+1.65	-2.87
-1.65	-2.87
-3.30	0.00
0.00	0.00
	0.00 +3.30 +1.65 -1.65 -3.30

08

+1.65

+4.32

0.00

-3.05 -4.32

-1.65

0.00

В

D

Е

+3.99

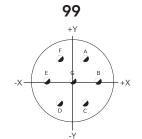
0.00

-4.32

-3.05

+3.99

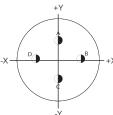
+1.12



Ctc	Х	Υ
Α	+1.65	+2.85
В	+3.30	0.00
С	+1.65	-2.87
D	-1.65	-2.87
Е	-3.30	0.00
F	-1.65	+2.87
G	0.00	0.00

13 / C

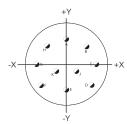
04



Ctc

В

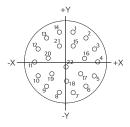
-Y	
Х	Υ
0.00	+3.81
+3.71	+0.89
0.00	-2.11
-3.71	+0.89



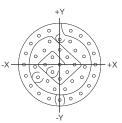
98

Ctc	Х	Y	Ctc	Х	Υ
Α	0.00	+4.95	F	-4.17	-2.67
В	+3.18	+3.81	G	-4.90	+0.76
С	+4.90	+0.76	Н	-3.18	+3.81
D	+4.17	-2.67	J	+1.65	-0.38
E	0.00	-3.43	К	-1.65	-0.38

35



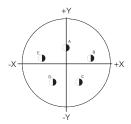
Ctc	Х	Y	Ctc	Х	Υ
1	+1.14	+5.00	12	-4.62	+2.24
2	+3.20	+4.01	13	-3.20	+4.01
3	+4.62	+2.24	14	-1.14	+5.00
4	+5.16	0.00	15	+1.14	+2.72
5	+4.62	-2.24	16	+2.97	+0.66
6	+3.20	-4.01	17	+2.36	-1.91
7	+1.14	-5.00	18	0.00	-3.05
8	-1.14	-5.00	19	-2.36	-1.91
9	-3.20	-4.01	20	-2.97	+0.66
10	-4.62	-2.24	21	-1.14	+2.72
11	-5.16	0.00	22	0.00	-0.76



Ctc	Х	Υ)	Ctc	Х	Υ `
1	+1.80	+5.54	23	+3.92	+1.27
2	-1.80	+5.54	24	+4.10	-0.43
3	+3.42	+4.71	25	+3.57	-2.06
4	+4.71	+3.42	26	+1.99	-2.74
5	+5.54	+1.80	27	+0.86	-4.03
6	+5.82	0.00	28	-0.86	-4.03
7	+5.54	-1.80	29	-1.99	-2.74
8	+4.71	-3.42	30	-3.57	-2.06
9	+3.42	-4.71	31	-4.10	-0.43
10	+1.80	-5.54	32	-3.92	+1.27
11	0.00	-5.82	33	-2.54	+2.28
12	-1.80	-5.54	34	-1.68	+3.76
13	-3.42	-4.71	35	0.00	+2.42
14	-4.71	-3.42	36	+1.21	+1.21
15	-5.54	-1.80	37	+2.42	0.00
16	-5.82	0.00	38	+1.21	-1.21
17	-5.54	+1.80	39	0.00	-2.42
18	-4.71	+3.42	40	-1.21	-1.21
19	-3.42	+4.71	41	-2.42	0.00
20	0.00	+4.12	42	-1.21	+1.21
21	+1.68	+3.76	43	0.00	0.00
22	+2.54	+2.28			

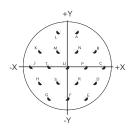
15 / D

05



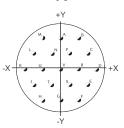
Ctc	Х	Y
A 0		+2.54
В	+4.42	+0.61
С	+2.39	+3.76
D	-2.39	-3.76
E	-4.42	+0.61

18



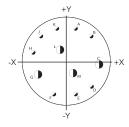
Ctc	Х	Y	Ctc	Х	Y
Α	+1.65	+6.40	K	-4.95	+2.87
В	+4.95	+2.87	L	-1.65	+6.40
С	+6.60	0.00	М	-1.65	+2.87
D	+4.95	-2.87	N	+1.65	+2.87
Е	+3.30	-5.72	Р	+3.30	0.00
F	0.00	-5.72	R	+1.65	-2.87
G	-3.30	-5.72	S	-1.65	-2.87
Н	-4.95	-2.87	Т	-3.30	0.00
J	-6.60	0.00	U	0.00	0.00

19

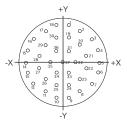


Ctc	х	Y	Ctc	Х	Υ
Α	0.00	+5.72	L	-4.95	+2.87
В	+3.30	+5.72	M	-3.30	+5.72
С	+4.95	+2.87	N	-1.65	+2.87
D	+6.60	0.00	Р	+1.65	+2.87
Е	+4.95	-2.87	R	+3.30	0.00
F	+3.30	-5.72	S	+1.65	-2.87
G	0.00	-5.72	Т	-1.65	-2.87
Н	-3.30	-5.72	U	-3.30	0.00
J	-4.95	-2.87	V	0.00	0.00
К	-6.60	0.00			

97



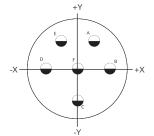
Ctc	Х	Y
Α	+1.65	+5.94
В	+4.52	+4.52
С	+5.84	-0.58
D	+4.52	-4.52
Е	+1.65	-5.94
F	-2.26	-5.97
G	-5.26	-2.41
Н	-5.94	+1.65
J	-4.52	+4.52
К	-1.65	+5.94
L	-1.19	+2.06
М	+1.19	-2.06



Ctc	Х	Y	Ctc	Х	Y
1	+1.14	+6.65	20	+3.12	+3.02
2	+3.12	+5.51	21	+4.32	+1.02
3	+5.36	+4.06	22	+4.32	-1.27
4	+6.45	+2.03	23	+3.12	-3.23
5	+6.75	-0.25	24	+1.14	-4.37
6	+6.27	-2.49	25	-1.14	-4.37
7	+5.08	-4.45	26	-3.12	-3.23
8	+3.30	-5.89	27	-4.32	-1.27
9	+1.14	-6.65	28	-4.32	+1.02
10	-1.14	-6.65	29	-3.12	+3.02
11	-3.30	-5.89	30	-1.14	+4.37
12	-5.08	-4.45	31	+1.14	+1.88
13	-6.27	-2.49	32	+2.29	-0.10
14	-6.76	-0.25	33	+1.14	-2.08
15	-6.45	+2.03	34	-1.14	-2.08
16	-5.36	+4.06	35	-2.29	-0.10
17	-3.12	+5.51	36	-1.14	+1.88
18	-1.14	+6.65	37	0.00	-0.10
19	+1.14	+4.37			

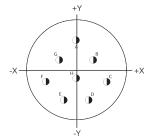
17 / E

06



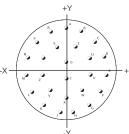
Ctc	Х	Υ
Α	+3.07	+5.31
В	+6.12	0.00
С	0.00	-6.12
D	-6.12	0.00
Е	-3.07	+5.31
F	0.00	0.00

80



Ctc	х	Υ
Α	0.00	+5.99
В	+3.25	+2.18
С	+5.84	-1.98
D	+2.39	-5.49
Е	-2.39	-5.49
F	-5.84	-1.98
G	-3.25	+2.18
Н	0.00	-1.32

26



Ctc

В

		R	-3.33	+7.44
		S	-1.78	+4.50
		Т	+1.78	+4.50
Х	Y	U	+4.45	+2.39
0.00	+8.15	V	+4.53	-0.91
+3.33	+7.44	W	+3.02	-3.84
+6.07	+5.44	Х	0.00	-5.16
+7.75	+2.51	Υ	-3.02	-3.84
+8.10	-0.86	Z	-4.53	-0.91
+7.06	-4.09	а	-4.45	+2.39
+4.80	-6.60	b	0.00	+1.65
+1.70	-7.98	С	0.00	-1.65

N

Р

-7.98

-6.60 -4.09

+2.51

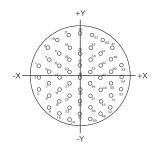
+5.44

-4.80

-7.75

-6.07

35



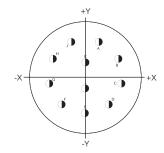
Ctc	Х	Y	Ctc	Х	Y
1	-7.92	+2.18	13	-3.96	-0.10
2	-7.92	-0.10	14	-3.96	-2.39
3	-7.92	-2.39	15	-3.96	-4.67
4	-6.15	+5.61	16	-3.96	-6.96
5	-5.94	+3.33	17	-2.26	+8.03
6	-5.94	+1.04	18	-1.98	+5.61
7	-5.94	-1.24	19	-1.98	+3.33
8	-5.94	-3.53	20	-1.98	+1.04
9	-5.94	-5.82	21	-1.98	-1.24
10	-4.37	+7.09	22	-1.98	-3.53
11	-3.96	+4.47	23	-1.98	-5.82
12	-3.96	+2.18	24	-1.98	-8.10

Ctc	Х	Υ	Ctc	Х	Υ
25	0.00	+8.36	41	+3.96	+4.47
26	0.00	+4.47	42	+3.96	+2.18
27	0.00	+2.18	43	+3.96	-0.10
28	0.00	-0.10	44	+3.96	-2.39
29	0.00	-2.39	45	+3.96	-4.67
30	0.00	+4.67	46	+3.96	-6.96
31	0.00	-6.96	47	+6.15	+5.61
32	+2.26	+8.03	48	+5.94	+3.33
33	+1.98	+5.61	49	+5.94	+1.04
34	+1.98	+3.33	50	+5.94	-1.24
35	+1.98	+1.04	51	+5.94	-3.53
36	+1.98	-1.24	52	+5.94	-5.82
37	+1.98	-3.53	53	+7.92	+2.18
38	+1.98	-5.82	54	+7.92	-0.10
39	+1.98	-8.10	55	+7.92	239
40	+4.37	+7.09			

Ctc	х	Y	Ctc	х	Y
Α	0.00	+8.15	N	-7.75	+2.51
В	+3.33	+7.44	Р	-6.07	+5.44
С	+6.07	+5.44	R	-3.33	+7.44
D	+7.75	+2.51	S	-1.78	+4.50
Е	+8.10	-0.86	Т	+1.78	+4.50
F	+7.06	-4.09	U	+4.45	+2.39
G	+4.80	-6.60	٧	+3.81	-1.91
Н	+1.70	-7.98	W	0.00	-4.09
J	-1.70	-7.98	Х	-3.81	-1.91
K	-4.80	-6.60	Υ	-4.45	+2.39
L	-7.06	-4.09	Z	0.00	+0.64
М	-8.10	-0.86			

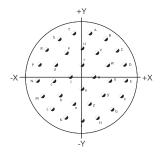
19 / F

11

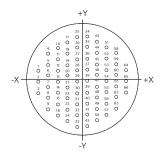


Ctc	х	Υ `
Α	+2.67	+6.60
В	+6.35	+3.35
С	+6.99	-1.35
D	+4.55	-5.46
E	0.00	-7.14
F	-4.55	-5.46
G	-6.99	-1.35
Н	-6.35	+3.35
J	-2.67	+6.60
K	0.00	+2.67
L	0.00	-2.34

32



Ctc	х	Y	Ctc	х	Υ
Α	+1.68	+8.97	Т	-1.68	+8.97
В	+4.80	+7.75	U	0.00	+5.84
С	+7.26	+5.51	V	+3.15	+4.90
D	+8.76	+2.49	W	+5.31	+2.41
Е	+9.07	-0.84	Х	+5.79	-0.84
F	+8.15	-4.06	Υ	+4.42	-3.84
G	+6.15	-6.73	Z	+1.65	-5.61
Н	+3.30	-8.51	а	-1.65	-5.61
J	0.00	-9.12	b	-4.42	-3.84
K	-3.30	-8.51	С	-5.79	-0.84
L	-6.15	-6.73	d	-5.31	+2.41
М	-8.15	-4.06	е	-3.15	+4.90
N	-9.07	-0.84	f	0.00	+2.44
Р	-8.76	+2.49	g	+2.44	0.00
R	-7.26	+5.51	h	0.00	-2.44
S	-4.80	+7.75	j	-2.44	0.00



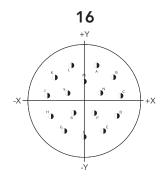
Ctc	Х	Y	Ct
1	-9.07	+2.29	1
2	-9.07	+0.00	10
3	-9.07	-2.29	10
4	-7.09	+5.71	18
5	-7.09	+3.43	19
6	-7.09	+1.14	20
7	-7.09	-1.14	2
8	-7.09	-3.43	2:
9	-7.09	-5.72	2:
10	-5.11	+6.86	24
11	-5.11	+4.57	2
12	-5.11	+2.29	20
13	-5.11	0.00	2
14	-5.11	-2.29	

Ctc	Х	Y	Ctc	Х
15	-5.11	-4.57	28	-1.14
16	-5.11	-6.86	29	-1.14
17	-3.12	+8.00	30	-1.14
18	-3.12	+5.71	31	-1.14
19	-3.12	+3.43	32	-1.14
20	-3.12	+1.14	33	-1.14
21	-3.12	-1.14	34	+1.14
22	-3.12	-3.43	35	+1.14
23	-3.12	-5.71	36	+1.14
24	-3.12	-8.00	37	+1.14
25	-1.14	+9.14	38	+1.14
26	-1.14	+6.86	39	+1.14
27	-1.14	+4.57	40	+1.14

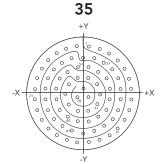
	Ctc	х	Y	C
	28	-1.14	+2.29	4
	29	-1.14	0.00	4
	30	-1.14	-2.29	4
	31	-1.14	-4.57	4
	32	-1.14	-6.86	4
	33	-1.14	-9.14	4
	34	+1.14	+9.14	4
	35	+1.14	+6.86	4
	36	+1.14	+4.57	4
	37	+1.14	+2.29	Ę
	38	+1.14	0.00	
	39	+1.14	-2.29	Ę
J	40	+1.14	-4.57	

$\overline{}$					
Ctc	Х	Υ)	Ctc	Х	Υ `
41	+1.14	-6.86	54	+5.11	0.00
42	+1.14	-9.14	55	+5.11	-2.29
43	+3.12	+8.00	56	+5.11	-4.57
44	+3.12	+5.71	57	+5.11	-6.86
45	+3.12	+3.43	58	+7.09	+5.71
46	+3.12	+1.14	59	+7.09	+3.43
47	+3.12	-1.14	60	+7.09	+1.14
48	+3.12	-3.43	61	+7.09	-1.14
49	+3.12	-5.71	62	+7.09	-3.43
50	+3.12	-8.00	63	+7.09	-5.71
51	+5.11	+6.86	64	+9.07	+2.29
52	+5.11	+4.57	65	+9.07	0.00
53	+5.11	+2.29	66	+9.07	-2.29

21 / G



Ctc	Х	Υ	Ctc	Х	Υ
Α	+3.00	+8.18	J	-8.66	+0.91
В	+6.88	+5.36	K	-6.88	+5.36
С	+8.66	+0.91	L	-3.00	+8.18
D	+7.82	-3.81	M	0.00	+4.45
Е	+4.62	-7.37	N	+3.91	+1.57
F	0.00	-8.71	Р	+2.39	-3.10
G	-4.62	-7.37	R	-2.39	-3.10
Н	-7.82	-3.81	S	-3.91	+1.57



Ctc

14

15

+1.35

-1.35

Υ

-10.82

-10.82

Ctc

36

37

16 -3.71 -10.26 **38** +4.67 -7.11 **60**

Х

+7.90

+6.55

Ctc	х	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

	17	-5.89	-9.19	39	+2.49	-8.18	61	-3.40	-5.05
	18	-7.77	-7.67	40	0.00	-8.81	62	-5.28	-3.53
	19	-9.27	-5.77	41	-2.49	-8.18	63	-6.02	-1.22
	20	-10.31	-3.58	42	-4.67	-7.11	64	-6.02	+1.22
	21	-10.85	-1.22	43	-6.55	-5.59	65	-5.28	+3.53
	22	-10.85	+1.22	44	-7.90	-3.58	66	-3.40	+5.05
	23	-10.31	+3.58	45	-8.43	-1.22	67	-1.22	+3.71
	24	-9.27	+5.77	46	-8.43	+1.22	68	+1.22	+3.71
	25	-7.77	+7.67	47	-7.90	+3.58	69	+3.18	+2.29
	26	-5.89	+9.19	48	-6.55	+5.59	70	+3.94	0.00
	27	-3.71	+10.26	49	-4.67	+7.11	71	+3.18	-2.29
	28	-1.35	+10.82	50	-2.49	+8.18	72	+1.22	-3.71
	29	0.00	+8.20	51	-1.22	+6.12	73	-1.22	-3.71
	30	+2.49	+8.18	52	+1.22	+6.12	74	-3.18	-2.29
	31	+4.67	+7.11	53	+3.40	+5.05	75	-3.94	0.00
	32	+6.55	+5.59	54	+5.28	+3.53	76	-3.18	+2.29
	33	+7.90	+3.58	55	+6.02	+1.22	77	0.00	+1.35
	34	+8.43	+1.22	56	+6.02	-1.22	78	+1.22	-0.74
]	35	+8.43	-1.22	57	+5.28	-3.53	79	-1.22	-0.74

Ctc

58

59

-3.58

-5.59

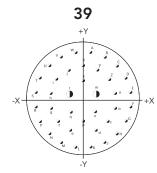
+3.40

+1.22

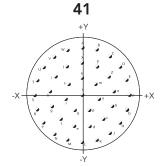
-5.05

-6.12

-1.22 -6.12



Ctc	Х	Υ)	Ctc	Х	Υ)	Ctc	Х	Υ `
Α	+1.65	+10.44	Р	-9.42	-4.80	d	+2.84	-6.73
В	+4.80	+9.42	R	-10.44	-1.65	е	-2.84	-6.73
С	+7.47	+7.47	S	-10.44	+1.65	f	-5.51	-4.80
D	+9.42	+4.80	Т	-9.42	+4.80	g	-7.11	-1.88
Е	+10.44	+1.65	U	-7.47	+7.47	h	-7.11	+1.45
F	+10.44	-1.65	٧	-4.80	+9.42	i	-5.89	+4.55
G	+9.42	-4.80	W	-1.65	+10.44	j	-3.20	+6.50
Н	+7.47	-7.47	Х	0.00	+7.49	k	0.00	+4.17
J	+4.80	-9.42	Υ	+3.20	+6.50	m	+2.90	+1.22
К	+1.65	-10.44	Z	+5.89	+4.55	n	+2.69	-2.72
L	-1.65	-10.44	а	+7.11	+1.45	р	0.00	-4.80
М	-4.80	-9.42	b	+7.11	-1.88	q	-2.69	-2.72
N	-7.47	-7.47	С	+5.51	-4.80	r	-2.90	+1.22



						f	-4.78	-5.39
Ctc	х	Y	Ctc	х	Y	g	-6.73	-2.55
Α	0.00	+10.60	М	-3.26	-10.09	h	-7.15	+0.87
В	+3.28	+10.09	N	-6.23	-8.58	i	-5.92	+4.09
С	+6.23	+8.58	Р	-8.58	-6.23	j	-3.35	+6.38
D	+8.58	+6.23	R	-10.09	-3.28	k	0.00	+3.81
Е	+10.09	+3.28	S	-10.60	0.00	m	+2.98	+2.38
F	+10.60	0.00	Т	-10.09	+3.28	n	+3.71	-0.85
G	+10.09	-3.28	U	-8.58	+6.23	р	+1.66	-3.43
Н	+8.58	-6.23	٧	-6.23	+8.58	q	-1.66	-3.43
J	+6.23	-8.58	W	-3.28	+10.09	r	-3.71	-0.85
K	+3.28	-10.09	Х	0.00	+7.20	s	-2.98	+2.38
L	0.00	-10.60	Υ	+3.35	+6.38	t	0.00	0.00
G H J K	+10.09 +8.58 +6.23 +3.28	-3.28 -6.23 -8.58 -10.09	V W X	-8.58 -6.23 -3.28 0.00	+6.23 +8.58 +10.09 +7.20	p q r	+1.66 -1.66 -3.71 -2.98	-3. -3. -0. +2.

Ctc Z

+5.92

+7.15

+6.73

+4.78

+1.73

-1.73

+4.09

+0.87

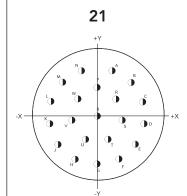
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-5.39

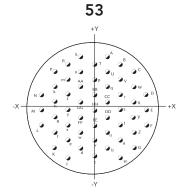
-6.99

-6.99

23 / H



Ctc	Х	Υ `
Α	+3.25	+9.78
В	+7.34	+7.24
С	+9.80	+3.12
D	+10.16	-1.65
Е	+8.33	-6.07
F	+4.65	-9.19
G	0.00	-10.31
Н	-4.65	-9.19
J	-8.33	-6.07
K	-10.16	-1.65
L	-9.80	+3.12
М	-7.34	+7.24
N	-3.25	+9.78
Р	0.00	+6.22
R	+4.06	+3.71
S	+5.44	-0.89
Т	+2.39	-4.93
U	-2.39	-4.93
٧	-5.44	-0.89
W	-4.06	+3.71
Х	0.00	0.00



Ctc	Х	Y	Ctc	Х	
Α	+2.84	+11.56	G	+8.53	
В	+5.72	+9.91	Н	+5.72	
С	+8.53	+8.26	J	-5.72	
D	+11.43	+3.30	K	-8.53	
Е	+11.43	0.00	L	-11.43	
F	+11.43	-3.30	М	-11.43	

Ctc	Х	Y	m	-5.72	
Ν	-11.43	+3.30	n	-2.84	
Р	-8.53	+8.26	р	0.00	
R	-5.72	+9.91	q	+2.84	
S	-2.84	+11.56	r	+5.72	
Т	0.00	+9.91	s	+5.72	
U	+2.84	+8.26	t	+5.72	
٧	+5.72	+6.60	u	+2.84	
W	+8.53	+4.95	v	0.00	
Х	+8.53	+1.65	w	-2.84	ſ
Υ	+8.53	-1.65	х	-5.72	ſ
Z	+8.53	-4.95	у	-5.72	ſ
а	+5.72	-6.60	z	-5.72	Γ
b	+2.84	-8.26	AA	-2.84	ſ
с	0.00	-9.91	ВВ	0.00	ſ
٦	2.94	9.26	CC	±2.84	Γ

-6.60

-4.95

-1.65

+1.65

+4.95

DD

EE

+2.84

0.00

-2.84

-2.84

0.00

-5.72

-8.53

-8.53

-8.53

Ctc

+6.60 +8.26 +6.60 +4.95 +3.30 0.00 -3.30 -4.95 -6.60 -4.95 -3.30 0.00 +3.30 +4.95 +3.30

+1.65

-1.65

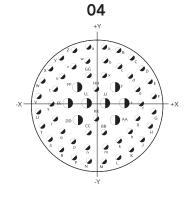
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-1.65

+1.65

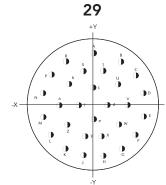
0.00

25 / J



Ctc	Х	Υ)	Ctc	х	Y
Α	+1.75	+13.49	Н	+12.52	-5.21
В	+5.16	+12.57	J	+10.77	-8.28
С	+8.23	+10.80	K	+8.23	-10.80
D	+10.77	+8.28	L	+5.16	-12.57
Е	+12.52	+5.21	M	+1.75	-13.49
F	+13.49	+1.75	N	-1.75	-13.49
G	+13.49	-1.75	Р	-5.16	-12.57

Ctc	Х	Υ	Ctc	Х	Υ
R	-8.23	-10.80	q	-7.90	-6.38
S	-10.77	-8.28	r	-9.58	-3.35
Т	-12.52	-5.21	s	-10.46	0.00
U	-13.49	-1.75	t	-9.58	+3.35
V	-13.49	+1.75	u	-7.90	+6.38
W	-12.52	+5.21	v	-5.38	+8.78
Х	-10.77	+8.28	w	-2.18	+10.08
Υ	-8.23	+10.80	х	+1.75	+6.66
Z	-5.16	+12.57	у	+4.37	+3.78
а	-1.75	+13.49	z	+6.55	0.00
b	+2.18	+10.08	AA	+4.37	-3.78
С	+5.38	+8.78	ВВ	+1.75	-6.66
d	+7.90	+6.38	СС	-1.75	-6.66
е	+9.58	+3.35	DD	-4.37	-3.78
f	+10.46	0.00	EE	-6.55	0.00
g	+9.58	-3.35	FF	-4.37	-3.78
h	+7.90	-6.38	GG	-1.75	-6.66
k	+5.38	-8.78	НН	0.00	+3.35
m	+2.18	-10.08	JJ	+2.18	0.00
n	-2.18	-10.08	KK	0.00	-3.35
р	-5.38	-8.78	LL	-2.18	0.00



-8.26

-10.41

-8.26

0.00

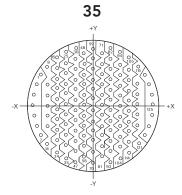
Y			
Ctc	Х	Υ	
Α	0.00	+12.22	
В	+6.55	+10.31	
С	+10.03	+7.04	
D	+11.91	+2.77	
Е	+11.91	-2.77	
F	+10.03	-7.04	
G	+6.68	-10.31	
Н	+2.31	-11.99	

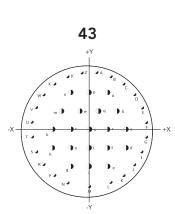
	L	-10.03	-7.04
	М	-11.91	-2.77
	N	-11.91	+2.77
(Р	-10.03	+7.04
	R	-6.55	+10.31
	S	-2.31	+8.15
	Т	+2.31	+8.15
	U	+5.79	+4.93
	V	+8.10	0.00
	W	+6.10	-4.60
	Х	+2.31	-7.37
22	Υ	-2.31	-7.37
31	Z	-6.10	-4.60
14	а	-8.10	0.00
7	b	-5.79	+4.93
7	С	0.00	+4.09
4	d	+3.40	0.00
31	е	0.00	-3.30
9	f	-3.40	0.00

-2.31

-11.99 -10.31

25 / J





Ctc	Х	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

(c.	V		(c.	V	
		-			Υ
27	-6.32	+7.24	53	-2.11	0.00
28	-6.32	+4.83	54	-2.11	-2.41
29	-6.32	+2.41	55	-2.11	-4.83
30	-6.32	0.00	56	-2.11	-7.24
31	-6.32	-2.41	57	-2.11	-9.65
32	-6.32	-4.83	58	-2.11	-12.07
33	-6.32	-7.24	59	0.00	+13.26
34	-6.32	-9.65	60	0.00	+10.85
35	-6.32	-12.07	61	0.00	+8.43
36	-4.06	+13.49	62	0.00	+6.02
37	-4.22	+10.85	63	0.00	+3.61
38	-4.22	+8.43	64	0.00	+1.19
39	-4.22	+6.02	65	0.00	-1.19
40	-4.22	+3.61	66	0.00	-3.61
41	-4.22	+1.19	67	0.00	-6.02
42	-4.22	-1.19	68	0.00	-8.43
43	-4.22	-3.61	69	0.00	-10.85
44	-4.22	-6.02	70	0.00	-14.10
45	-4.22	-8.43	71	+2.11	+12.07
46	-4.22	-10.85	72	+2.11	+9.65
47	-4.22	-13.26	73	+2.11	+7.34
48	-2.11	+12.07	74	+2.11	+4.83
49	-2.11	+9.65	75	+2.11	+2.41
50	-2.11	+7.24	76	+2.11	0.00
51	-2.11	+4.83	77	+2.11	-2.41
52	-2.11	+2.41	78	+2.11	-4.83
	28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	27 -6.32 28 -6.32 29 -6.32 30 -6.32 31 -6.32 32 -6.32 33 -6.32 34 -6.32 35 -6.32 36 -4.06 37 -4.22 40 -4.22 41 -4.22 42 -4.22 43 -4.22 44 -4.22 45 -4.22 46 -4.22 47 -4.22 48 -2.11 50 -2.11	27 -6.32 +7.24 28 -6.32 +4.83 29 -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 +8.43 39 -4.22 +8.43 39 -4.22 +6.02 40 -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 -8.43 46 -4.22 -10.85 47 -4.22 -13.26 48 -2.11 +9.65 50 -2.11 +7.24 51 -2.11 +4.83	27 -6.32 +7.24 53 28 -6.32 +4.83 54 29 -6.32 +2.41 55 30 -6.32 0.00 56 31 -6.32 -2.41 57 32 -6.32 -4.83 58 33 -6.32 -7.24 59 34 -6.32 -9.65 60 35 -6.32 -12.07 61 36 -4.06 +13.49 62 37 -4.22 +8.43 64 39 -4.22 +8.43 64 39 -4.22 +6.02 65 40 -4.22 +1.19 67 42 -4.22 -1.19 68 43 -4.22 -3.61 69 44 -4.22 -6.02 70 45 -4.22 -8.43 71 46 -4.22 -10.85 72 47 -4.22<	27 -6.32 +7.24 53 -2.11 28 -6.32 +4.83 54 -2.11 29 -6.32 +2.41 55 -2.11 30 -6.32 0.00 56 -2.11 31 -6.32 -2.41 57 -2.11 32 -6.32 -4.83 58 -2.11 33 -6.32 -7.24 59 0.00 34 -6.32 -9.65 60 0.00 35 -6.32 -12.07 61 0.00 36 -4.06 +13.49 62 0.00 37 -4.22 +10.85 63 0.00 38 -4.22 +8.43 64 0.00 40 -4.22 +3.61 66 0.00 41 -4.22 +1.19 67 0.00 42 -4.22 -1.19 68 0.00 43 -4.22 -3.61 69 0.00

$\overline{}$	Ctc	х	Y	Ctc	х	Y
00	79	+2.11	-7.24	104	+6.32	-12.07
41	80	+2.11	-9.65	105	+8.43	+11.28
83	81	+2.11	-12.07	106	+8.43	+8.43
24	82	+4.06	+13.49	107	+8.43	+6.02
65	83	+4.22	+10.85	108	+8.43	+3.61
.07	84	+4.22	+8.43	109	+8.43	+1.19
.26	85	+4.22	+6.02	110	+8.43	-1.19
.85	86	+4.22	+3.61	111	+8.43	-3.61
43	87	+4.22	+1.19	112	+8.43	-6.02
02	88	+4.22	-1.19	113	+8.43	-8.43
61	89	+4.22	-3.61	114	+8.43	-10.85
19	90	+4.22	-6.02	115	+10.77	+9.07
19	91	+4.22	-8.43	116	+10.54	+4.83
51	92	+4.22	-10.85	117	+10.54	+2.41
)2	93	+4.22	-13.26	118	+10.54	0.00
43	94	+6.32	+12.60	119	+10.54	-2.41
85	95	+6.32	+9.65	120	+10.54	-4.83
.10	96	+6.32	+7.24	121	+10.77	-9.07
.07	97	+6.32	+4.83	122	+12.17	+7.09
65	98	+6.32	+2.41	123	+13.21	+4.83
34	99	+6.32	0.00	124	+13.87	+2.41
83	100	+6.32	-2.41	125	+14.10	0.00
41	101	+6.32	-4.83	126	+13.87	-2.41
00	102	+6.32	-7.24	127	+13.21	-4.83
41	103	+6.32	-9.65	128	+12.17	-7.09
83						

Ctc	Х	Υ	Ctc	Х	Υ
					-
Α	+1.75	+13.49	Z	-1.75	+13.4
В	+5.16	+12.57	а	+4.37	+8.74
С	+8.23	+10.80	b	+6.55	+4.37
D	+10.77	+8.28	с	+8.74	0.00
E	+12.52	+5.21	d	+8.74	-4.37
F	+13.49	+1.75	е	+4.37	-8.74
G	+13.49	-1.75	f	0.00	-8.74
Н	+12.52	-5.21	g	-4.37	-8.74
J	+10.77	-8.28	h	-8.74	-4.37
K	+8.23	-10.80	k	-8.74	0.00
L	+5.16	-12.57	m	-6.55	+4.37
М	0.00	-13.49	n	-4.37	+8.74
N	-5.16	-12.57	р	0.00	+8.74
Р	-8.23	-10.80	q	+2.18	+4.37
R	-10.77	-8.28	r	+4.37	0.00
S	-12.52	-5.21	s	+4.37	-4.37
Т	-13.49	-1.75	t	0.00	-4.37
U	-13.49	+1.75	u	-4.37	-4.37
٧	-12.52	+5.21	v	-4.37	0.00
W	-10.77	+8.28	w	-2.18	+4.37
Х	-8.23	+10.80	х	0.00	0.00
Y	-5.16	+12.57			

4Y	61
-X	X

Ctc	Х	Υ)	Ctc	х	Υ `
Α	+4.98	+12.70	K	+6.58	-11.94
В	+7.98	+11.05	L	+3.40	-13.18
С	+10.49	+8.71	M	0.00	-13.64
D	+12.32	+5.84	N	-3.40	-13.18
Е	+13.39	+2.57	Р	-6.58	-11.94
F	+13.61	-0.76	R	-9.35	-9.93
G	+12.98	-4.17	S	-11.53	-7.29
Н	+11.53	-7.29	Т	-12.98	-4.17
J	+9.35	-9.93	U	-13.61	-0.76

Ctc	Х	Υ)	Ctc	Х	Y
٧	-13.39	+2.57	t	-7.24	+7.19
W	-12.32	+5.84	u	-4.39	+9.22
Х	-10.49	+8.71	v	0.00	+8.59
Υ	-7.98	-11.05	w	+3.73	+5.66
Z	-4.98	+12.10	х	+6.02	+3.10
а	-1.73	+11.53	у	+6.78	-0.25
b	+1.73	+11.53	z	+5.79	-3.53
С	+4.39	+9.22	AA	+3.33	-5.92
d	+7.24	+7.19	ВВ	0.00	-6.78
е	+9.19	+4.45	СС	-3.33	-5.92
f	+10.13	+1.17	DD	-5.79	-3.53
g	+9.96	-2.24	EE	-6.78	-0.25
h	+8.66	-5.41	FF	-6.02	+3.10
i	+6.38	-7.98	GG	-3.73	+5.66
j	+3.38	-9.63	нн	0.00	+5.08
k	0.00	-10.21	JJ	+2.67	+2.39
m	-3.38	-9.63	KK	+3.43	-1.04
n	-6.38	-7.98	LL	0.00	-3.35
р	-8.66	-5.41	MM	-3.43	-1.04
q	-9.96	-2.24	NN	-2.67	+2.39
r	-10.13	+1.17	PP	0.00	0.00
s	-9.19	+4.45			



8LT Series

Range Extension

	micro38999	60
1		
	RoHS solution	60
Т		
	High density	61
Т	,	
	PCB contact without shoulder	61

Product range extension



A complete miniature range: threaded (8DA), break away (8BA) & bayonet (8LTA). Space saving with scoop proof connector for harsh applications.

A compact solution:

- . Diameter up to 45% smaller than size 9 (D38999).
- . Up to 50% shorter.
- . Integrated backshell: Cost and space saving.

A high density solution:

- . With #26 contacts (according to 39029).
- . 5 layouts (size 3, 5 and 7 with #22 & #26).

Excellent features:

- . Designed for D38999 requirements.
- . IP67 sealing when mated.
- . Stainless steel shell (1500 matings) & aluminum shell (500 matings).

RoHS and Cadmium free:

 Available in zinc nickel (RoHS) plating, as well as nickel and olive drab cadmium.



RoHS Solution

The RoHS alternative to cadmium!
SOURIAU Zinc Nickel: the best in terms of price and performance for aerospace & defense equipment.

SOURIAU Black Zinc Nickel:

. A unique alternative plating process to cadmium.

RoHS compliant:

. A unique SOURIAU plating process compliant with RoHS regulations for cadmium and Cr6+.

The first QPL qualified:

. SOURIAU Zn Ni is the first product which has been qualified by US Defense standards organization (DLA Land and Maritime).

High corrosion resistance:

. 500 hours salt spray.

Available in mass production:

. Available for 38999 Series I, II and III aluminum range.



Product range extension

High Density

SOURIAU offers a robust & reliable High Density solution derived from 38999 Series I, Series III & VG96912.

3 shell sizes available:

. Provides flexibility according to your application.

A reliable & robust solution:

. Same well proven design as standard 38999 & VG96912.

Significant space saving:

- . Twice the number of contacts compared to size 13-35 with 22 contacts.
- . Two shell sizes smaller than a partially populated size 17-35 with 55 cavities.



PCB Contact without Shoulder

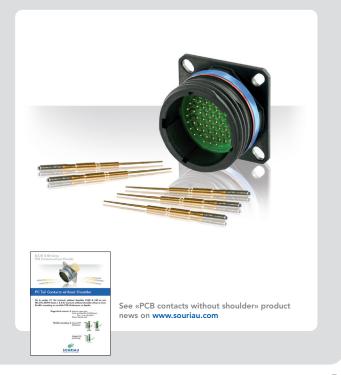
Pin & socket PCB contacts without shoulder #22D & #20 as per MIL-DTL-38999 Series I, II & III.
Contacts without shoulder allows a more flexible mounting on variable PCB thicknesses or depths.

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.



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