

SOURIAU

8D Series Range Extension A Universal Platform





Introduction

Since the early 80's, Souriau is a major supplier of 38999 Series III, the screw-coupled version of MIL-DTL-38999. Present on the main international programs, Souriau has developed a range of products that meet the performance required in extreme environments (civil and military aeronautics, ground, industrial, marine and offshore).

Always pushing the boundaries in term of innovation, Souriau's teams have continuously improved this range of connectors. Today Souriau remains innovative with cadmium free and RoHS solutions. In 2009 Souriau was the first to be QPL qualified for Zinc Nickel plating.

This product family is in accordance with MIL-DTL-38999 Series III, EN 3645, CECC (standard for bronze shell), and also meets many customers' standards (Rolls Royce, ABS, BACC, ...)

Contents

8D Standard Series

- Ordering information 17

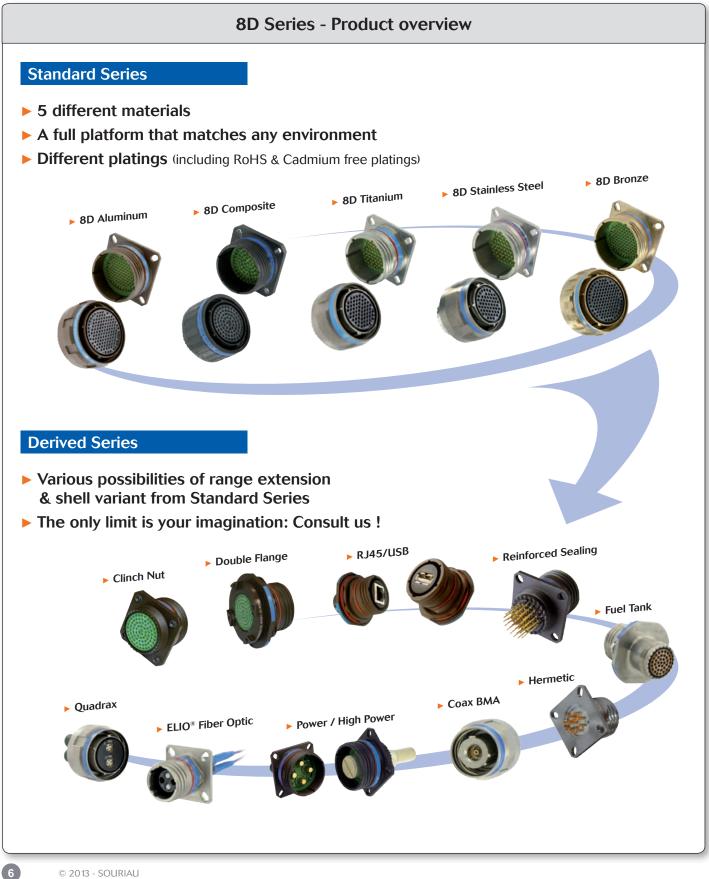
8D Series Range Extension

Integrated Clinch Nut	
High Density	
PCB Contact without Shoulder	
Power Contact	27
High Power Contact	
Quadrax Contact	
• ELIO® Contact	
Rack & Panel	29
230V Connector	29
Reinforced Sealing	30
Hermetic Version	
• RJ45/USB	31
8TFD: Filter Connector	31
• 8D8/8D9 Series	
• 8DB: Bulkhead	32

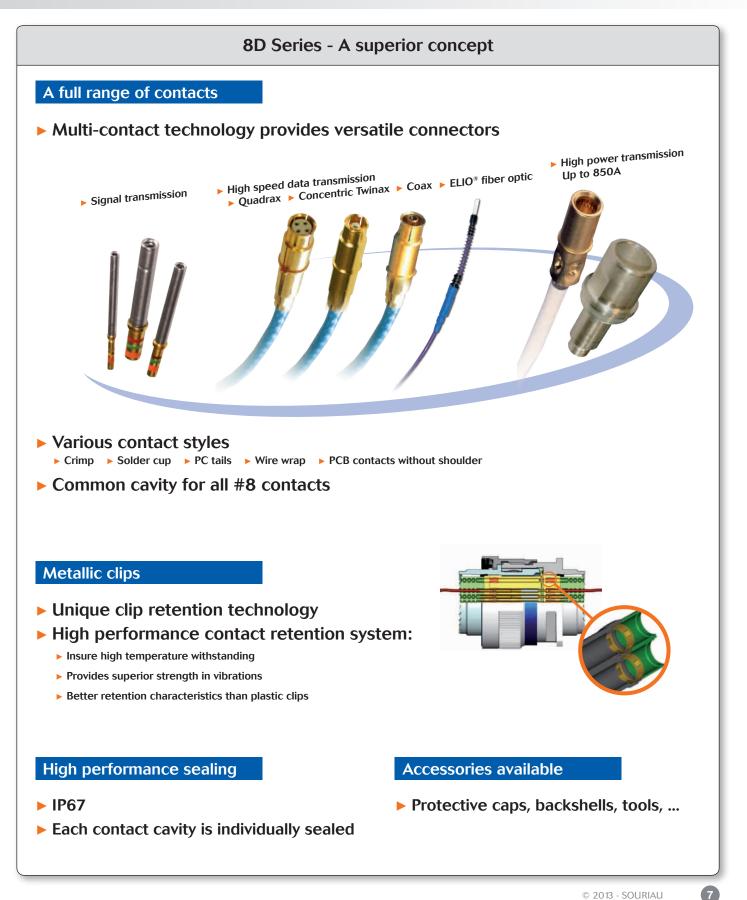


Standard Series

8D Series - Product overview	. 06
8D Series - A superior concept	. 07
Technical features	. 08
Contact layouts	. 10
Ordering information:	
Souriau part numbers	. 17
MIL-DTL-38999 Series III part numbers	. 18
EN3645 part numbers	. 19
BACC part numbers	. 20
Souriau JVS (bronze) part numbers	. 21
CECC part numbers	. 21



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Applications

- · Civil and Military Aerospace
- Marine and Offshore Equipment
- Defense and Ground Military
- Industrial

Standards

- MIL-DTL-38999 Series III
- EN3645
- BACC63CT/CU; BACC63DB/DC

Technical features

Mechanical

• Shell: Aluminum, composite, stainless steel, bronze

Shell plating:

8 © 201 Downloaded from Arrow.com.

. Aluminum shell: Cadmium olive drab (W) Nickel (F) Black zinc nickel (Z) Green zinc cobalt (ZC) . Composite shell: Cadmium olive drab (J) Nickel (M) Without plating (X)

. Stainless steel shell: Passivated (K) Nickel (S) . Titanium shell: Without plating (TT) Nickel (TF)

- . Bronze shell: Without plating
- Insulator: Thermoplastic
- Grommet and interfacial seal: Silicone elastomer
- Contacts: Copper alloy
- Contacts plating: Gold over nickel plated
- Endurance: . 500 mating cycles all materials . 1500 mating cycles for composite
- connectors with specifics contacts
- Shock: 300g, 3 ms according EN 2591-D2 method A
- Vibration:
- . Sinus: . 10 à 2000 Hz, 3x12 hrs
- (60g, 140 2000 Hz) with T° cycling . Random:
 - . 50 to 2000 Hz, 2x8 Hrs
 - (1g2/ Hz, 100 2000Hz) at T° max.
 - . 25 to 2000 Hz, 2x8 Hrs
- (5g2/ Hz, 100 300Hz) at ambiant T° Test with accessories in acc with

EN2591-D3

Description

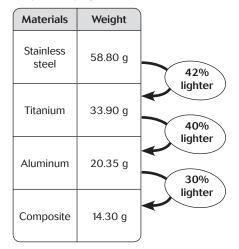
- High contact density layouts available HD
- Screw coupling, Shell size from 9 to 25
- Contact protection: 100% Scoop proof
- Protected by cadmium, nickel, green zinc cobalt or black zinc nickel plating
- RFI EMI shielding and shell to shell continuity
- Accessories available (protective caps, backshells, etc...)
- Hermetic versions
- High power up to 850A
- Optical layouts
- 230V layouts available (ABS22-19, ABS22-20, ABS22-21 & ABS22-22 qualified)

Contact retention:

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

Weight comparison

Example for a plug shell size 15



Electrical

Test voltage rating (Vrms)

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

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

Insulation resistance:

 $\geq 5~000~\text{M}\Omega$ (under 500 Vdc)

Contact rating:

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

Shell continuity

Aluminum shell: Cadmium olive drab (W): 2.5 mΩ Nickel (F): 1 mΩ Black zinc nickel (Z): 2.5 mΩ Green zinc cobalt (ZC): 2.5 mΩ
Composite shell: Cadmium olive drab (J): 3 mΩ Nickel (M): 3 mΩ
Stainless steel shell: Passivated (K): 10 mΩ Nickel (S): 1 mΩ
Titanium shell: Without plating (TT): 10 mΩ Nickel (TF): 1 mΩ
Bronze shell:

Without plating: 5 mΩ

Shielding:

. Aluminum shell: F: 65 db at 10 GHz Z, F & W: 85 db at 1 GHz Z & W: 50 db at 10 GHz ZC: Consult us . Composite shell: J & M: 85 db at 1 GHz . Stainless steel shell: K: 45 db at 10 GHz S: 65 db at 10 GHz . Titanium shell: TT: 45 db at 10 GHz TF: 65 db at 10 GHz . Bronze shell: 85 db at 10 GHz

Climatics

```
• Temperature range:
 . Aluminum shell:
         W: -65°C +175°C
         F: -65°C +200°C
         Z: -65°C +200°C
         ZC: -65°C + 175°C
 . Composite shell:
         J: -65°C + 175°C
         M: -65°C +200°C
         Without plating (X): -65°C + 175°
 . Stainless steel shell:
         K: -65°C +200°C
         S: -65°C +200°C
 . Titanium shell:
         TT: -65°C +200°C
         TF: -65°C +200°C
 . Bronze shell:
         Without plating: -65°C + 175°C
```

Sealing:

Mated connectors meet altitude immersion requirements of MIL-DTL-38999.

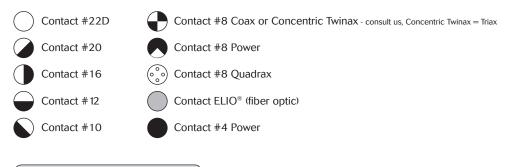
Salt spray:

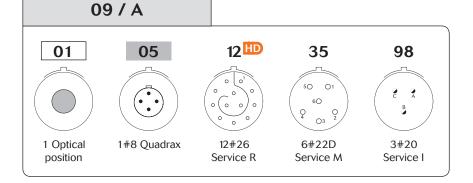
. Aluminum shell: W: 500 Hrs F: 48 Hrs Z: 500 Hrs ZC: 250 Hrs . Composite shell: J: 2000 Hrs M: 2000 Hrs Without plating (X): 2000 Hrs . Stainless steel shell: K: 500 Hrs S: 500 Hrs . Titanium shell: TT: 500 Hrs TF: 48 Hrs . Bronze shell: Without plating: 500 Hrs

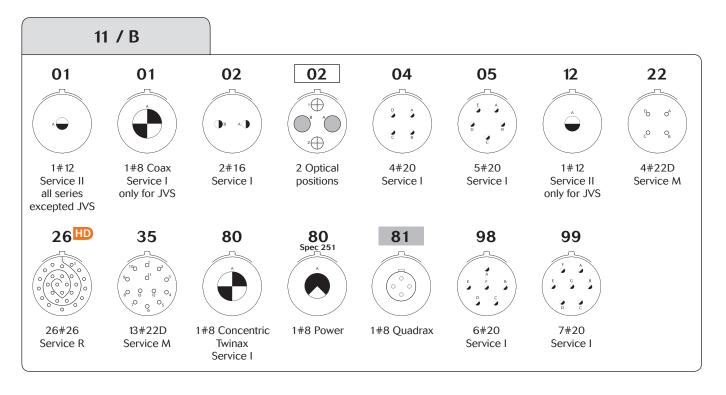
Resistance to fluids

- According to MIL-DTL-38999 standard
- . Gasoline: JP5 (OTAN F44) . Mineral hydraulic fluid: MIL-H-5606
- (OTAN H515)
- . Synthetic hydraulic fluid: Skydrol 500 B4
- LD4 (SAE AS 1241)
- . Mineral lubricating: MIL-L-7870A (OTAN 0142)
- . Synthetic lubricating: MIL-L-23699 (OTAN 0156), MIL-L-7808
- . Cleaning fluid: MIL-DTL-25769 diluted
- . De-icing fluid: MIL-A-8243
- . Extinguishing fluid: Bromochloromethane
- . Cooling fluid: Coolanol

Contact layouts



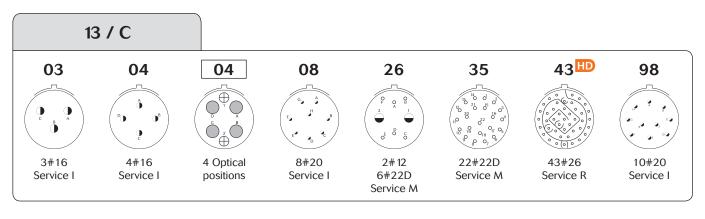


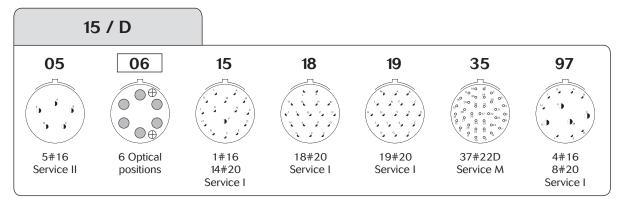


ELIO[®] fiber optic

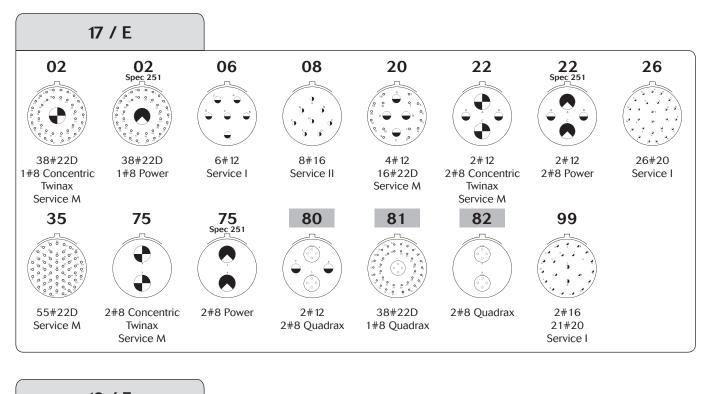
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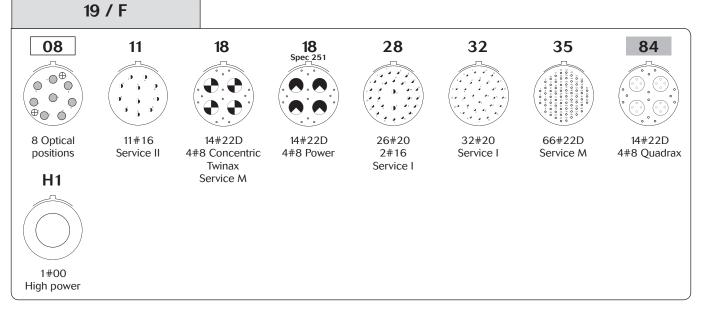
Contact layouts





Contact layouts

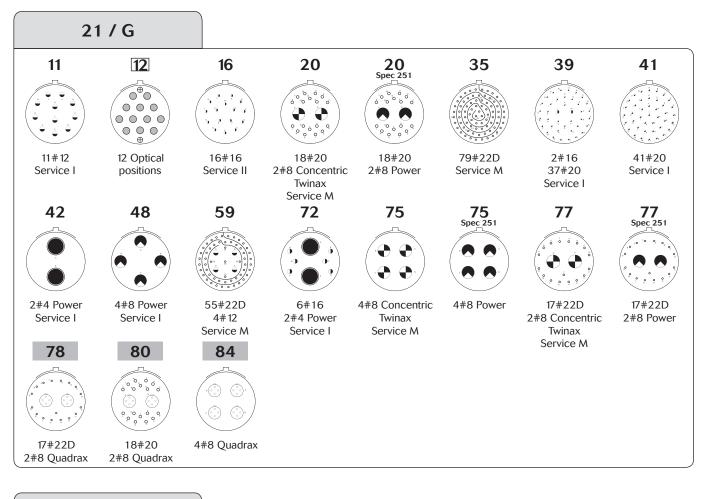


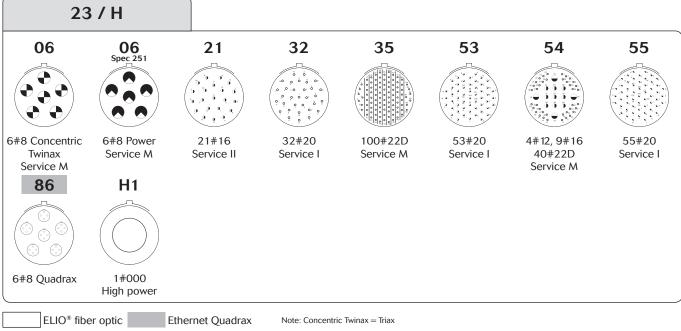


ELIO[®] fiber optic Ethernet Quadrax

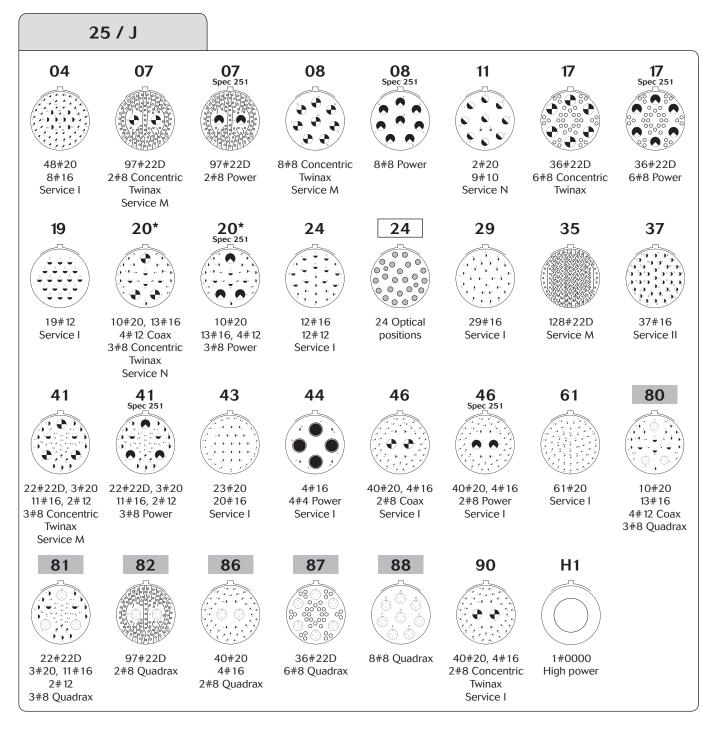
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Contact layouts





Contact layouts



(14)

Contact layouts (matrix)

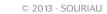
Shell size	Layout	MIL-DTL-38999 (QPL) Aluminum, Stainless steel & Composite	8D Titanium	JVS-CECC Bronze connector	Hermetics	EN3645	BACC63 CT/CU DB/DC	Number of contacts	#26	#22D	#20	# 16	#12	# 10	#8	#4	Fiber optic or High power
	09-01							1									1 Optic.
	09-05 (1)							1							1 Qdx		
09 / A	09-12							12	12	1	İ		1		1		
	09-35	Q		Q		Q	Q	6		6							
	09-98	Q		Q		Q	Q	3	İ		3		1				
	11-01							1	Ì		İ		1		i		
	11-01							1							1 Coax		
	11-02	Q		Q		Q	Q	2	İ	1	1	2	1	1	1		
	11-02							2									2 Optic
	11-04	Q					Q	4			4						
	11-05	Q		Q		Q	Q	5			5						
	11-12							1					1				
11 / B	11-22							4		4							
	11-26							26	26								
	11-35	Q		Q		Q	Q	13		13							<u> </u>
	11-80							1							1 Twx		<u> </u>
	11-80 sp 251							1							1 Pow		<u> </u>
	11-81							1							1 Qdx		<u> </u>
	11-98	Q		Q		Q	Q	6			6						
	11-99	Q		Q		Q	Q	7			7						-
	13-03							3		<u> </u>	-						
	13-04	Q		Q		Q	Q	4				4					-
	13-04	<u> </u>						4				<u> </u>					4 Optic
	13-08	Q		Q		Q	Q	8			8						
13 / C	13-26			Q		Q		8		6			2				
	13-35	Q		Q		Q	Q	22		22			2				
	13-43			<u> </u>		<u> </u>	<u> </u>	43	43	22							
	13-98	Q		Q		Q	Q	10			10						
	15-05	Q		Q		Q	Q	5			10	5					
	15-06	ų v		<u> </u>		V.	<u> </u>	6				5					6 Optic
	15-00	Q		Q		Q	Q	15			14	1					0 Optic
15 / D	15-18	Q		Q		Q	Q	18			18						
1370	15-19	Q		Q		Q	Q	19			19						
	15-35	Q		Q		Q	Q	37		37	15						
	15-97	Q		Q		Q	Q	12		- 57	8	4					
	17-02	ų v		<u> </u>		Q	Q	39		38	0	4			1 Twx		
	17-02 sp 251					Ų.	<u> </u>	39		38					1 Pow		
	17-02 sp 251	0		Q		Q	Q	6		50			6		TTOW		
	17-08	Q Q		Q		Q	Q	8				8	0				
	17-20	<u> </u>		<u> </u>		Q	<u> </u>	20		16		0	4				
	17-20							4		10			2		2 Twx		
								4					2		2 Pow		
17 / E	17-22 sp 251	0		0		0					20		2		Z POW		
1/ / E	17-26	Q		Q		Q	Q	26		55	26						
	17-35 17-75	Q		Q		Q	Q	55 2		55					2 7.00		
															2 Twx		
	17-75 sp 251							2					-		2 Pow		+
	17-80							4		20			2		2 Qdx		
	17-81							39		38					1 Qdx		
	17-82			C .		<u> </u>	Q	2			21				2 Qdx		
	17-99	Q		Q		Q	Q	23			21	2					0.0-1
	19-08	-		-		6		8									8 Optic
	19-11	Q		Q		Q	Q	11				11					<u> </u>
	19-18	Q					Q	18		14					4 Twx		<u> </u>
19 / F	19-18 sp 251			-													<u> </u>
	19-28	Q		Q			Q	28		ļ	26	2					
	19-32	Q		Q		Q	Q	32			32						<u> </u>
	19-35	Q		Q		Q	Q	66	<u> </u>	66							<u> </u>
	19-84			L				18		14					4 Qdx		<u> </u>
	19-H1							1									1 #00

Souriau's layout

 ${\bf Q}$ ~ Souriau's layout & Layout according to corresponding norm

(1) Grounded insert only - Please consult us

#8 Pow: Power; Qdx: Quadrax; Twx: Concentric Twinax



Contact layouts (matrix)

Shell size	Layout	MIL-DTL-38999 (QPL) Aluminum, Stainless steel & Composite	8D Titanium	JVS-CECC Bronze connector	Hermetics	EN3645	BACC63 CT/CU DB/DC	Number of contacts	#26	#22D	#20	#16	#12	# 10	#8	#4	Fiber optic or High power
	21-11	Q		Q		Q	Q	11					11				
	21-12							12									12 Optio
	21-16	Q		Q		Q	Q	16				16					
	21-20					Q		20			18				2 Twx		
	21-20 sp 251							20			18				2 Pow		
	21-35	Q		Q		Q	Q	79		79							
	21-39	Q		Q		Q	Q	39			37	2					
	21-41	Q		Q		Q	Q	41			41						
	21-42							2							ļ	2 Pow	
21 / G	21-48			Q				4							4 Pow		
	21-59							59		55			4		ļ		
	21-72							8				6				2 Pow	
	21-75	Q				Q	Q	4							4 Twx		
	21-75 sp 251							4							4 Pow		
	21-77							19		17					2 Twx		
	21-77 sp 251							19		17					2 Pow		
	21-78						Q	19		17					2 Qdx		
	21-80							20			18				2 Qdx		
	21-84						Q	4							4 Qdx		
	23-06							6							6 Twx		
	23-06 sp 251						-	6							6 Pow		
	23-21	Q		Q		Q	Q	21				21					
	23-32	Q		-				32			32						
23 / H	23-35	Q		Q		Q	Q	100		100							
	23-53	Q		Q		Q	Q	53			53						
	23-54					Q		53		40		9	4				
	23-55	Q		Q		Q	Q	55			55						
	23-86							6							6 Qdx		
	23-H1							1							ļ		1 #000
	25-04	Q				Q	Q	56			48	8					
	25-07	Q				Q	Q	99		97					2 Twx		
	25-07 sp 251			-				99		97					2 Pow		
	25-08	Q		Q ⁽²⁾		Q	Q	8							8 Twx		
	25-08 sp 251							8							8 Pow		
	25-11	Q				Q	Q	11			2			9	0.7		
	25-17							42		36					6 Twx		
	25-17 sp 251	0		0				42		36			10		6 Pow		
	25-19	Q		Q 30		Q	Q	19			10	12	19		2 7.00		
	25-20	Q		57		Q (4)	Q 6	30			10	13	4 ⁶		3 Twx		
	25-20 sp 251	0		0		0		30			10	3	ł		3 Pow		
	25-24	Q		Q		Q	Q	24				12	12				24 Onti
	25-24	0		0		0	0	24				20					24 Optic
	25-29 25-35	Q Q		Q Q		Q Q	Q Q	29 128		128		29					
25 / J	25-35	Q		ų –		Q	Q	37		128		37					
	25-37	<u>v</u>				<u>v</u>	<u> </u>			22	2		2		2 7.0		
	25-41 25-41 sp 251							41 41		22 22	3	11 11	2		3 Twx 3 Pow		
	25-41 sp 251 25-43	Q		Q		Q	Q	41			3 23	20			1 3 PUW		
	25-43	<u> </u>		ų – ų		<u>v</u>	<u> </u>	43 8			23	4			+	4 Pow	
	25-44	Q				Q	Q	46			40	4			2 Coax		
	25-46 sp 251	<u> </u>				_ بر		46			40	4			2 Coax		
	25-46 sp 251 25-61	Q		Q		Q	Q	40 61			61	4			2 FUW		
	25-80	<u> </u>		ų –		<u> </u>		30			10	13	4		3 Qdx		
	25-80							41		22	3	11	4		3 Qdx		
	25-81							99		97					2 Qdx		
	25-82							99 46		5/	40	4			2 Qdx 2 Qdx		
	25-86							40		36	40				6 Qdx		
	25-87							42 8		30					8 Qdx		
	25-88							46			40	4			2 Twx		
	20-90			I				40			4 0	4					1 #000

Souriau's layout

Q Souriau's layout & Layout according to corresponding norm

(2) For CECC, layout 25-08 only delivered without contact

(3) For classes F, W, S, K only(4) For classes F, W, K only

(5) Qualified BACC63DB/DC only

(6) 4 #12 coax (2+2)

#8 Pow: Power; Qdx: Quadrax; Twx: Concentric Twinax

Souriau part numbers

Basic Series	8D	0	11	W	35	Р	Ν		
 Shell style: O: Square flange receptacle 1: In line receptacle (Aluminum only) 7: Jam nut receptacle (Aluminum, Stainless steel & Tit 5: Plug with RFI shielding 	anium only)								
Type: None: Connectors with standard crimp contacts. L: Receptacle with long PC tail (male and female size C: Receptacle with short PC tail (male and female #22 S: Receptacle with specific PC tail (male et female #22 W: Receptacle with male contacts #22D for wire wrap T: Receptacle with male contacts #20 for wire wrap P: Receptacle with solder cup - only available for Rein page 75) - male and female size #22D; male #16 & and male female #20 please consult us	2D, #20, #16). 2D) 0 (3 wraps) 2 wraps) forced sealing	Series (see							
Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25									
Plating: W: Olive drab cadmium (Aluminum only) F: Nickel (Aluminum only) ZC: Green zinc cobalt (Aluminum only) Z: Black zinc nickel (Aluminum only) J: Olive drab cadmium (Composite only) M: Nickel (Composite only) X: Without plating (Composite only) K: Passivated (Stainless steel only) S: Nickel (Stainless steel only) TI: Without plating (Titanium only) TF: Nickel (Titanium only)									
Contact layout: See pages 10 to 13									
Contact type: P: Pin (500 mating/unmating) S: Socket (500 mating/unmating) H: Pin (1500 mating/unmating - Composite only) J: Socket (1500 mating/unmating - Composite only) A: Connector supplied less pin contact or with specifi B: Connector supplied less socket contact or with specifi			•						
Orientation: N, A, B, C, D, E, T, V									
Specification: 046: Tinned straight PC tail 251: Connector provided with power contacts (layout 022: Fuel tank 600: 230V qualified connector (stainless steel & com			nandato	ry - Con	sult us f	or availa	ble layo	uts)	
Special custom: None: Standard plastic cap M: Antistatic plastic cap									

Note: Stainless steel plug with reinforced locking available, please consult us.



MIL-DTL-38999 Series III part numbers

Basic Series	D38999	20	W	В	35	Р	N	L
 Shell style: 20: Square flange receptacle 24: Jam nut receptacle (Aluminum & Stainless steel only) 26: Plug with RFI shielding 								
Plating: Z: Black zinc nickel (Aluminum) W: Olive drab cadmium (Aluminum) F: Nickel (Aluminum) J: Olive drab cadmium (Composite) M: Nickel (Composite) K: Passivated (Stainless steel) S: Nickel (Stainless steel)								
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23=H, 25=J								
Contact layout: See pages 15 & 16 for layout according to MIL-DTL-38999								
Contact type: P: Pin S: Socket A: Connector supplied less pin contact or with specific contacts (connector B: Connector supplied less socket contact or with specific contacts (connector)				
Orientation: N, A, B, C, D, E								
L: For P or S contact type only, connector delevired without contacts, connect	tor marking P	or S (wit	hout L)					

Note: To place a MIL connectors order delivered without MIL removable crimp contacts and keep P or S plus orientation marking, it must be specify clearly on the order (by adding a suffix L at the end of the P/N or specified in comment).



EN3645 part numbers

Basic Series	EN3645	W	6	G	N	35	В	N
Plating: W: Olive drab cadmium (Aluminum) F: Nickel (Aluminum) J: Olive drab cadmium (Composite) M: Nickel (Composite) K: Stainless steel passivated (Stainless steel)		-						
 Shell style: 0: Square flange receptacle 6: Plug 7: Jam nut receptacle (Aluminum & Stainless steel only) 								
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23=H, 25=J								
Grounding: N: Standard insert not grounded								
Contact layout: See pages 15 & 16 for layout according to EN3645								
Contact type: M: Pin F: Socket A: Connector supplied less pin contact B: Connector supplied less socket contact								
Orientation: N, A, B, C, D, E								



BACC part numbers

Basic Series: BACC63CT: 8D5*M (composite plug) BACC63CU: 8D0*M (composite square flange receptacle) BACC63DB: 8D5*K (stainless steel plug) BACC63DC: 8D0*K (stainless steel square flange receptacle)	BACC63CT	13	-	98	Ρ	Ν	н
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23=H, 25=J							
Plating & grounding: -: Nickel plated, ungrounded G: Nickel plated, grounded D: Cadmium plated, ungrounded C: Cadmium plated, grounded							
Contact layout: See pages 15 & 16 for layout according to BACC							
Contact type: P: Pin S: Socket							
Orientation: N, A, B, C, D, E							
Specification: None: With contacts H: Without contact & without filler plug							



Souriau JVS (bronze) part numbers

Basic Series		JVS	16	А	11	35	Р	N	-
07: Jam nu	flange receptacle t receptacle h RFI shielding								
Material: A: Bronze h	ousing material								
Shell size: 09, 11, 13, 1	15, 17, 19, 21, 23, 25								
Contact layout									
Contact type: P: Pin S: Socket A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) B: Connector supplied less socket contact or with specific contacts (connector marking: B + orientation)									
Orientation: N, A, B, C, I	D, E								
CI: Printed LI: Recepta	ector provides with power contacts (layouts with contacts #8) board mounting contacts cle with long PC tail (pin or socket #22D) S contact type only, connectors delivered without contacts, conne	ectors markii	ng P or S	S plus o	rientatio	n			

CECC part numbers

Basic Series	C 752 002	В	В	98	м	С	Ν	А	0	1	G
Shell style: A: Plug B: Square flange receptacle C: Jam nut receptacle											
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23	≔H , 25 = J										
Contact layout: See pages 15 & 16 for layout according to CECC											
Contact type: M: Pin F: Socket											
Type of contact termination: C: Crimp contact											
Orientation: N, A, B, C, D, E											
Shell material: A: Aluminum bronze											
Supply code: 0: Connectors supplied with contacts 1: Connectors supplied without contacts											
Assessment level: 1: Level 1											
Performance level: G: Level G											

Note: C 752 002 refers to the abbreviated form of the CECC 75 201-002 type designation.



Range Extension

	micro38999	24
	RoHS solution	24
	Double Flange	25
	Integrated Clinch Nut	25
I	High Density	26
Ì	PCB Contact without Shoulder	26
	Power Contact	27
Ì	High Power Contact	27
Ì	Quadrax Contact	28
Ì	ELIO [®] Contact	28
Ì	Rack & Panel	29
Ì	230V Connector	29
Ì	Reinforced Sealing	30
Ì	Hermetic Version	30
Ì	RJ45/USB	31
Ì	8TFD: Filter Connector	31
I	8D8/8D9 Series	32
I	8DB: Bulkhead	32

Product range extension

micr@38999

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.

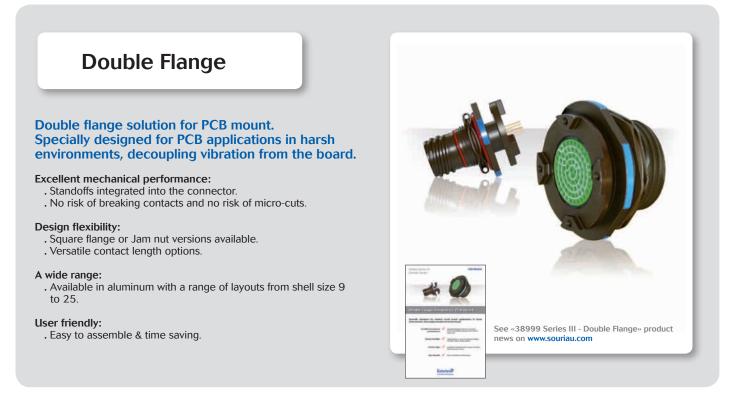
Available in mass production:

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





Product range extension



Integrated Clinch Nut

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

User friendly: . Easy to install.

Selflocking: . Fast and secure.

Reduced mounting hardware: . Elimination of nuts and washers.



Product range extension



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

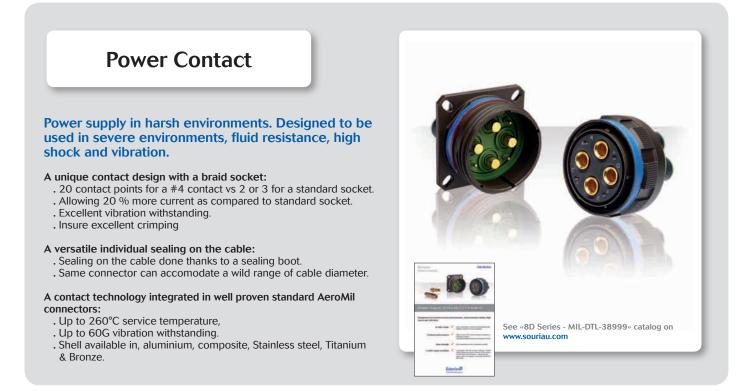
Flexible mounting:

- . Various PCB thicknesses.
- . Multiple PCB positioning.





Product range extension



High Power Contact

38999 High Power (up to 850A). Designed to meet the harshest military requirement where high power and shielding are needed.

3 aluminum shell sizes available:

- . Size 19 (450A max); size 23 (650A max); size 25 (850A max).
- . Different finish: cadmium, zinc nickel, electroless nickel.
- . Threaded coupling.

Superior contact technology equipped with a silver plated braid: . High contact endurance.

- . Low contact resistance.
- . No microcut under vibration.
- no merocal ander vibration.

Modular design for easy installation:

- . Removable backshell: straight, right angle or bus bar. . Backshell termination: for thread or shrink boot.
- Possible to crimp various cable (Ø from 50 to 185mm).
- Safety



Product range extension

Quadrax Contact

Quadrax contacts for full duplex ethernet link with robust MIL-DTL-38999 compliant screw coupling system for networks & high vibration environments.

High speed:

One Quadrax contact replace two concentric Twinax contacts.
 Data rate up to 1 Gbit/sec.

A wide range:

. Compatible with all Souriau standard 38999 shells, plating and inserts (with at least one #8 cavity).

A flexible range:

. Available in 100 and 150 ohms (grounded or not).

A versatile technology:

. Quadrax layouts compatible with all #8 contacts type: power, coax, concentric twinax, fiber optic.



ELIO[®] Contact

ELIO[®] contact: ruggedized and user friendly fiber optic technology. Easy mounting optical link for severe applications.

Flight proven:

. The only Airbus qualified fiber optic technology: ABS1379, ABS1213. ARINC 801 and EN4531 qualified.

Robust connection:

Withstanding the most severe vibrations with excellent optical performance (0.3 dB).

User friendly contact:

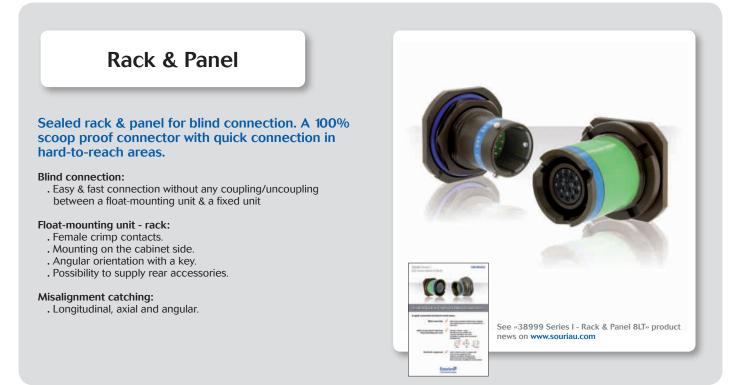
- . Easy cleaning: no part to remove.
- . No tool needed for insertion/extraction of the contacts.

A wide range available:

. In all planforms with #8 cavities. Up to 24 $\mathsf{ELIO}^\circledast$ contacts in 38999 size 25.



Product range extension



230V Connector

The use of higher voltage to reduce cable weight has lead to the development of double voltage connectors.

Robust design and materials:

 In high altitude un-pressurized areas, higher voltages increase electrical partial discharges → Risk of contact short circuits. Our 230V connector avoids this risk !

No possible mismatch:

 Specific T and V clocking to avoid mating with a non 230V qualified counterpart.

Flexible offering:

- Available in standard watertight and hermetic connectors with the same performance.
- . Available in composite and stainless steel shells.



Product range extension



Hermetic Version

Glass sealed connector (helium leakage test). Low profile for compacity requirements.

As per MIL-DTL-38999:

- . Inert glass insulator.
- . High hermeticity performance.
- . Ideal for high pressure environments.
- . Low profile.
- . Nickel plating upon request.

Various shell types:

- . Box mounting flange receptacle.
- . Jam nut receptacle.
- . Solder mounting receptacle.



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Product range extension



8TFD: Filter Connector

EMI-RFI filters and lightning protection in composite light-weight shell.

Space saving:

- . Complete filter solution in standard shell.
- . No need for filter PCB inside equipment.
- . Smaller equipment envelope required.

Excellent filter performance:

Excellent performance, comparable to aluminum shell EMI-RFI filter connectors.

Highly corrosion resistant:

. 2000 hours salt spray in either nickel or olive drab finish.

Wide range of layouts available:

. SOURIAU EMI-RFI Filter 38999 Series III connectors are available in aluminum, marine bronze, and stainless steel shells.



(31)

Product range extension



8DB: Bulkhead

"Double Receptacle" mounted on panel allows cable plug connection on both sides of the bulkhead. Create a permanent sealed barrier on your panel suitable for pressurized or depressurized areas.

Easy integration:

- . Standard 38999 mounting interface (square flange, jam nut)...
- . Easy modular assembly and connection.
- . Time saving for maintenance.
- . The ideal interconnect solution for aircraft pressurized/non pressurized panels.

Reinforced sealing:

- . Feedthrough sealing even when unmated (10⁻⁶ atm.cm³/s). . Permanent sealing barrier on panel (O rings).
- . Glass fused hermetic version available (<10⁻⁸ atm.cm³/s) for
- fuel tanks/space systems.

A large platform available:

. All 38999 Series III layouts (signal and power contacts).



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