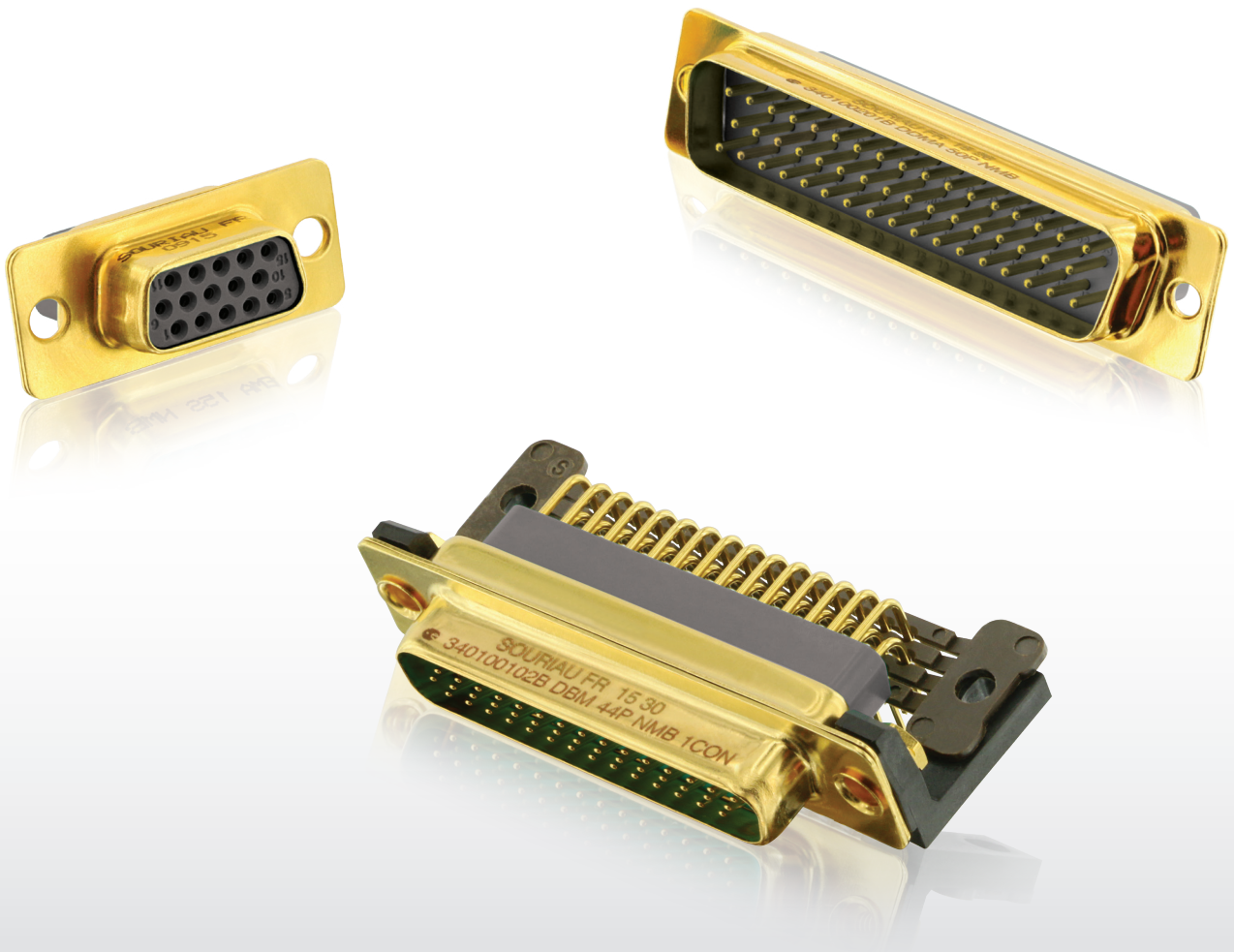


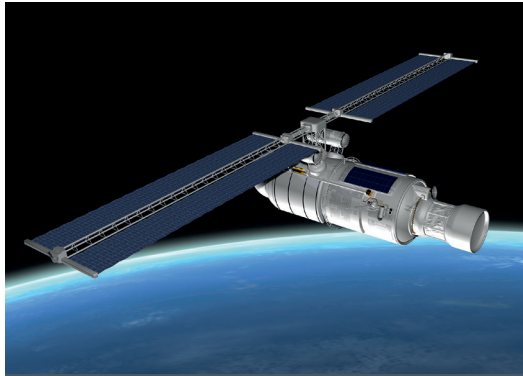
Compact and lightweight space grade connector.



Powering Business Worldwide

Souriau D-Sub space grade series

Typical applications



Satellite



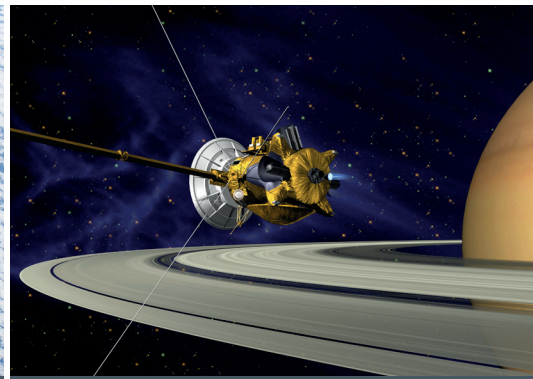
Space Station



Launcher



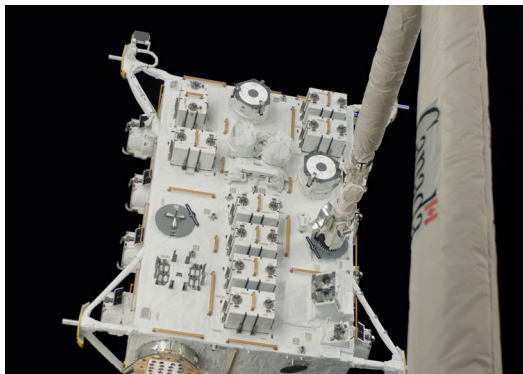
Spacecraft



Space Probe



Transfer Vehicle



Space experiment

Souriau D-Sub space grade series

We are space experts

Since the 1980's Souriau now Eaton has been supplying the satellite industry, supporting worldwide customers and space agencies in the research of better interconnect solutions and the highest grade of space connectors. This continuous effort has resulted in the commercialization of several standard ranges off the shelf (COTS) to satisfy the needs of performance, availability, cost optimization and high reliability. Besides, based on our capabilities, many solutions have been designed and qualified on purpose to meet specific requirements, thus bringing in all our support to your outstanding missions.

Reliable solutions

The satellite industry is the perfect example of a business where failure is not an option. Strong partners you can rely on are mandatory. The environment requires on-board hardware to perform through magnetic fields, thermal cycles, vacuum, radiations, atomic oxygen, after having withstood the harsh launch conditions. But also, in this changing time for space industry, the reliability of the partners within the supply chain as well as the relevancy of their solutions in regard with the mission are more than ever part of the prior concerns.

Space grade D-Sub series

The space grade D-Sub series is a compact connector ideally suited to answer to miniaturization and weight saving trends in spatial applications. It has been and is a long lasting standard solutions for LEO up to GEO applications. The large portfolio enables to serve most of the mounting configurations. Space grade D-Sub connectors are ESCC 3401, MIL-DTL-24308 class M and GSFC S-311 qualified (QPL).



Successful space heritage

Listed by space agencies

Space environment compatible

Optimized size and weight

Souriau D-Sub space grade series

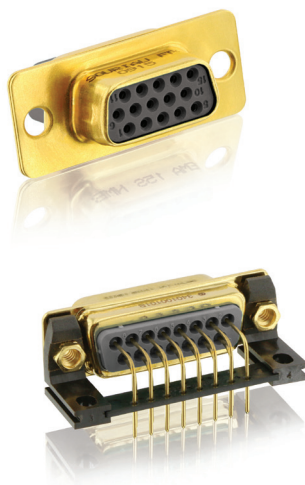
1

2

3

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5



1 Overview

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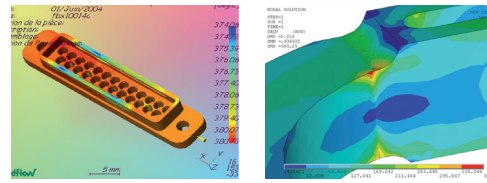
Crimping tools	50
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Product definition

Material Choice: Atomic Oxygen corrosion resistance, cold welding prevention, limited outgassing, etc.

Product design: expertise on launching systems design as well as robotic operated connections.

Know-how to support specific needs.



Stress and heat dissipation analysis

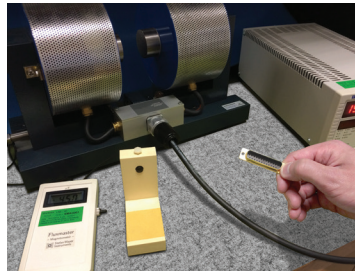
Validation & qualification

In-house certified independent laboratory.

Capability to simulate various environments as well as to measure any key parameters.



Vacuum bell for robotic operating testing
-170°C/+200°C temperature gradient



Residual magnetism and magnetic permeability
measurement



Binocular controls

Production processes

Stringent production process.

Controlled environment.

Binocular inspection.

Rigorous traceability procedures and documentation.



Clean Room handling

Quality assurance testing

Qualification:

The ESA/ESCC D-Sub non-magnetic connectors are qualified to specification 3401.

MIL and GSFC QPL.

Production control:

Visual (100%).

Insulation resistance (100%).

Contact retention (100%).

Dimensional (by sampling).

Dielectric withstanding voltage (100%).

Female contact capability (100%).

Final production tests:

Visual (100%).

Intermateability.

Dimensional (by sampling).

Lot acceptance tests:

ESA/ESCC 3401 Chart IV qualified.

Periodic requalification through ESCC 3401 Chart V.

MIL-DTL-24308 qualification and periodic tests.

5 shell sizes

26 layouts
(standard, HD, mixed)Data and power
transmission

Connectors



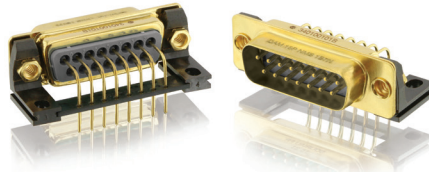
Cable connectors

Contact termination

Rear removable crimp contacts
Solder bucket contacts
Wire wrap contacts

Grommet version available**Mounting options**

Fixed mounting
Floating mounting
Clinch nuts



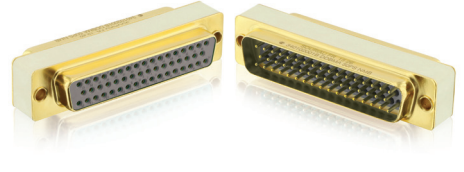
PC Tail connectors

Contact termination

Straight or 90° PC tail

Mounting options

Fixed mounting
Clinch nuts
Brackets
Brittle drilled bar...



Saver connectors

QPL connectors

Used to protect the flight equipment connectors
from multiple test matings

Accessories



Backshells

EMI/RFI shielded version**Lightweight version****Cable clamp****Shorting can****Castellated backshell**

Screw locks

Male and female versions**Brass or stainless steel**

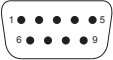
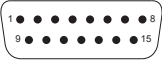
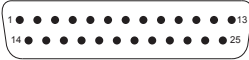
Dust caps

Antistatic dust caps

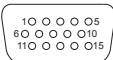
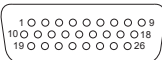
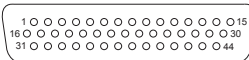
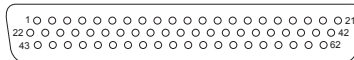
Contact layouts

Male insulator front view

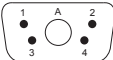
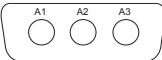
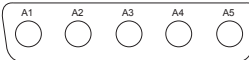
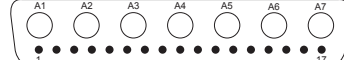
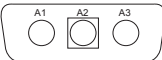
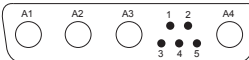
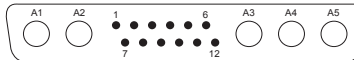
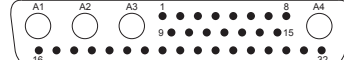
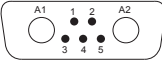
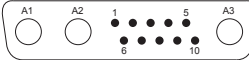
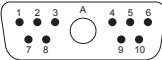
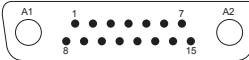
Standard density layouts - Contacts #20

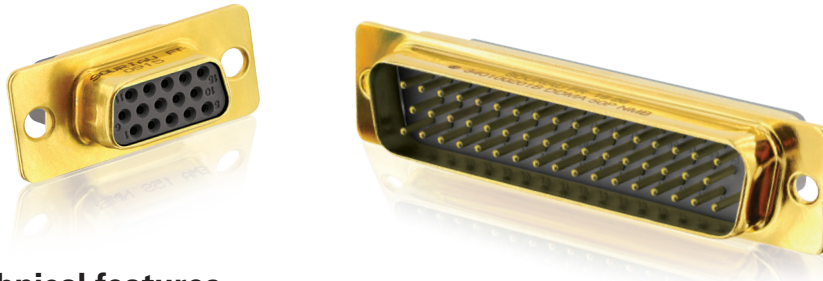
Size E	Size A	Size B	Size C	Size D
				
9 contacts	15 contacts	25 contacts	37 contacts	50 contacts

High density layouts - Contacts #22

Size E	Size A	Size B	Size C	Size D
				
15 contacts	26 contacts	44 contacts	62 contacts	78 contacts

Mixed layouts - Contacts #20 (non removable signal contact) and contacts #8 (coax, twinax and power)

Size E	Size A	Size B	Size C	Size D
				
5W1 4#20, 1#8	3W3 3#8	5W5 5#8	8W8 8#8	24W7 17#20, 7#8
				
3WK3 3#8	9W4 5#20, 4#8	17W5 12#20, 5#8	36W4 32#20, 4#8	
				
7W2 5#20, 2#8	13W3 10#20, 3#8	21WA4 17#20, 4#8		
				
11W1 10#20, 1#8	17W2 15#20, 2#8	25W3 22#20, 3#8		
				
		27W2 25#20, 2#8		



Technical features

Materials

- Shell: Brass
- Shell plating:
 - 1.27 micron gold to meet MIL/NASA
 - 0.7 micron gold to meet ESA
- Insulator:
 - Glass-fibre filled diallylphthalate resin
 - Thermoplastic material
- Outgassing: according to ESA PSS-01-702 TML<1%; CVCIM<0.1%
- Contacts retaining clip: Beryllium copper
- Contacts Copper Alloy:
 - 3401/005 /040 & /021: 1.27 microns gold mini over 1 micron copper mini
 - 3401/004 : 2.54 microns gold mini over 1 micron copper mini
- Accessories: Brass, 0.7 micron gold mini over 1 micron copper mini

Environmental

Note: As per ESA/ESCC 3401 test methods and applicable ESA/ESCC detail specifications

- Operating temperature: -55°C to +125°C
- Storage temperature: 1000h/125°C
- Thermal shock: from -55°C to +125°C
- Damp heat: 10 cycles 24h
- Vacuum test (125°C/24h): 10-6 Torr

Electrical

Note: As per ESA/ESCC 3401 test methods and applicable ESA/ESCC detail specifications

- Working voltage (sea level /50Hz):
 - #20 contacts 300 Vrms
 - #22 contacts 250 Vrms
 - Power and straight coax 250 Vrms
 - 90° coax/twinax 200 Vrms
- Dielectric withstanding voltage (at sea level/33000 m):

- #20 contacts 1250/200 Vrms
- #22 contacts 1250/200 Vrms
- Power and straight coax 1000/100 Vrms
- 90° coax/twinax 800/100 Vrms
- Rated current:
 - #20 and coax (center) 7.5A
 - #22 PC tail 3A
 - #20 crimp (AWG 26/28) 3A
 - #22 crimp 5A
 - Power (wire size #8) 40A
 - Power (wire size #10) 30A
 - Power (wire size #12) 20A
 - Power (wire size #14) 15A
 - Power (wire size #16) 10A
- Contact resistance Rcr max. (at rated current):
 - #20 (under 7.5A) 5mΩ
 - #22 PC tail (under 3A) 10mΩ
 - #22 crimp (under 5A) 5mΩ
 - #20 crimp AWG 26/28 (under 3A) 5mΩ
 - #20 crimp (under 7.5A) 5mΩ
 - Coax (see rated current charac.) 7mΩ
 - Power (see rated current charac.) 7mΩ
- Contact resistance Rcl max. (low level current, under 10 mA):
 - #20 contacts 6mΩ
 - #22 contacts 6mΩ
 - Coax (center and outer) 8.5mΩ
 - Power 2.5mΩ

Mechanical

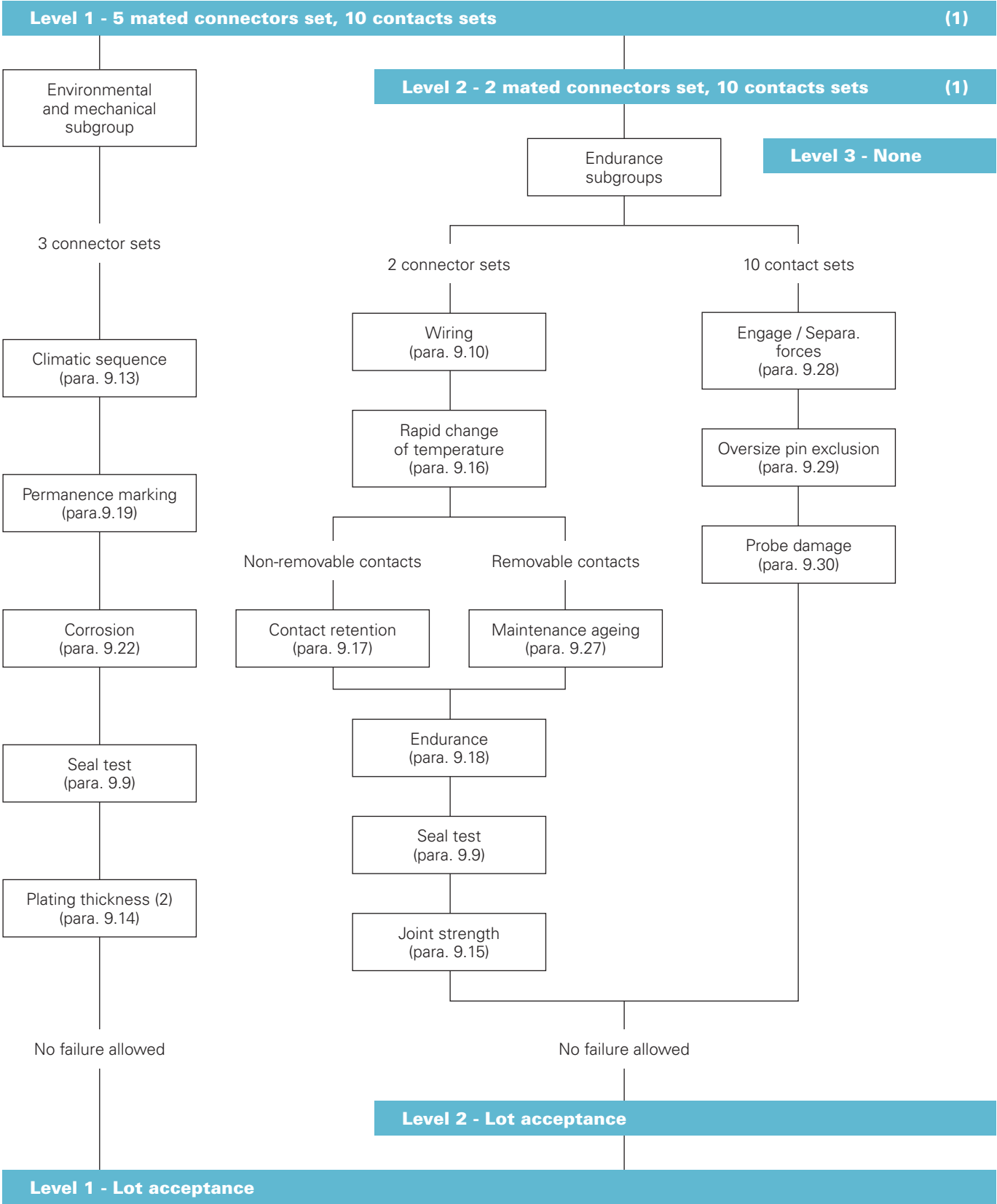
Note: As per ESA/ESCC 3401 test methods and applicable ESA/ESCC detail specifications

- Endurance: 500 mating cycles
- Shock: 50g with an 11ms duration pulse
- Vibration: 20g
- Contact retention: 40N

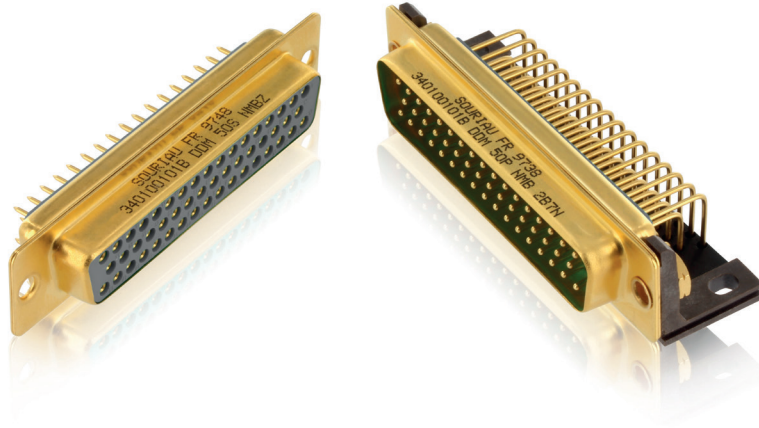
Cross reference table for GSFC/ESCC/SOURIAU

	ESA/SCC	Souriau	GSFC	Description
Connectors	3401/001/01/B	D*M-NMB	S311-P-10	Standard density connectors with non removable contacts
	3401/001/02/B	8635-NMB (PC tail)	-	High density connectors with non removable contacts
	3401/002/01/B	8630-NMB	S311-P-4/09	Standard density connectors with removable crimp contacts
	3401/002/02/B	8635-NMB (crimp)	S311-P-4/07	High density connectors with removable crimp contacts
	3401/020/01/B	D*BMA #20	-	Standard density connectors savers with removable crimp contacts
	3401/020/02/B	D*BMA #22	-	High density connectors savers with removable crimp contacts
Contacts	3401/004 *	8949 004 xx NMB	-	Coaxial contacts for SCC 3401/001/01B
	3401/040 *	8949 040 xx NMB	-	Power contacts for SCC 3401/001/01B
	3401/005	8949 xxxx	S311-P-4/08 & /10	Crimp contacts for SCC 3401/002
	3401/069	8949 004 xxNMB	-	Twinax contacts
	3401/021	8949 xxxx EL	-	Savers contacts for SCC 3401/020
Accessories	3401/022 *	Dx 8949 xx NM	-	Screw lock, dust caps
	3401/072 **	Dx 8949 xx NMB	-	Light weight backshell

* These components have no ESA/SCC certification (no ESA trademark on the component). ** Pending ESA Qualification.



Notes:
(1) For distribution within the sample, see Para. 8.2.2.
(2) Hermetic connectors only.
All Para. refer to ESA/SCC Generic Specification n° 3401.



Standard density with non removable contacts

Standards

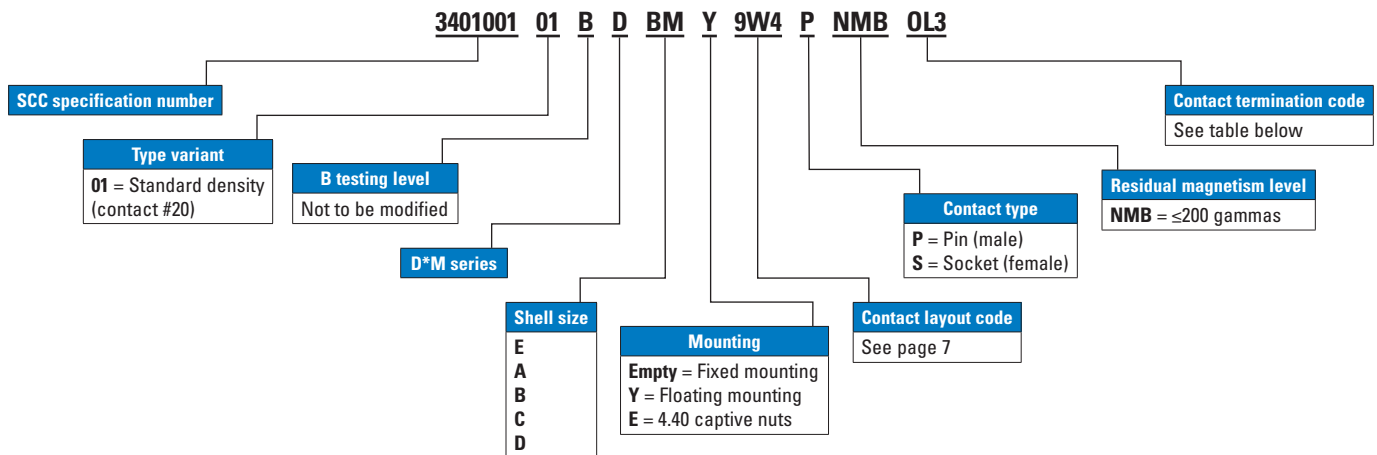
ESCC 3401/001 / GSFC / MIL-DTL-24308 Class M (QPL)

ESCC 3401/001 non-magnetic connectors are equipped with non removable contacts.

They are available with solder buckets straight PC tail, 90° PC tail, wire wrap contacts and mixed layouts with coaxial and power contacts.

The connectors are flight qualified parts.

Flight models ordering information



Flight models contact termination code

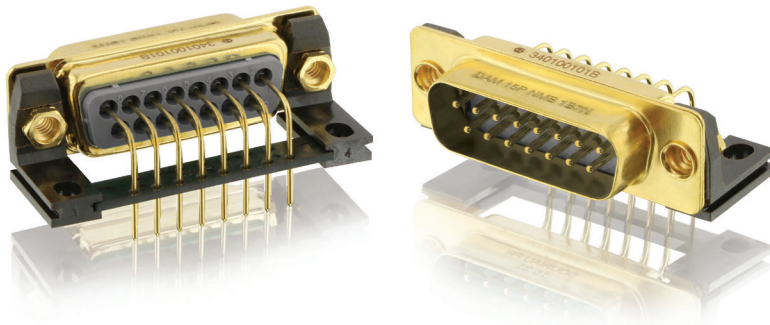
Code for Ø0.63	Code for Ø0.76	Contact type	Bracket	Pitch	Clinch nuts
Without indication	Without indication	Solder buckets			
OL3	Z	Straight PC tail			
1A0N	2A0N	90° PC tail	No	2,54 mm	
1B0N	2B0N	90° PC tail	No	2,84 mm	
1A7N	2A7N	90° PC tail	Yes	2,54 mm	UNC 4-40
1B7N	2B7N	90° PC tail	Yes	2,84 mm	UNC 4-40
1A9N	2A9N	90° PC tail	Yes	2,54 mm	M3
1B9N	2B9N	90° PC tail	Yes	2,84 mm	M3
F179A	F179A	Wire wrap 3 wraps			

Note: Mixed layout are not available in 90° PC tail

Contact layouts

* 3WK3 insulator with built-in keying (middle part recessed or protruding with respect to each side), to avoid mismounting (K = Keying)
Available only with Space Grade version D*M, insulator material : VALOX NOT DAP

Standard density D-Sub connector with non removable contacts



Standard density with non removable contacts

2

Standards

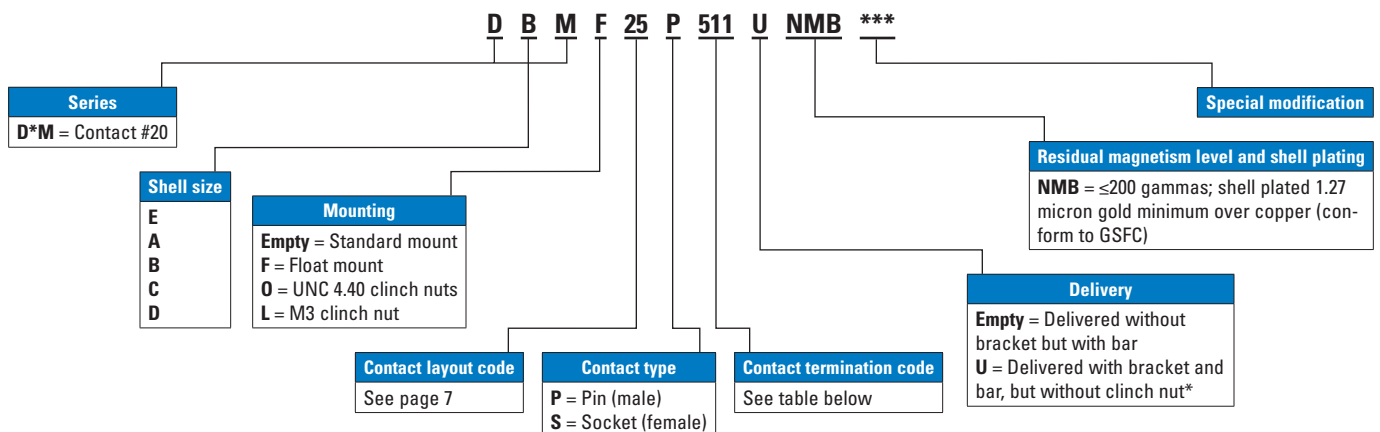
D*M-NMB

D*M-NMB non-magnetic connectors use the same components as the 3401/001 ESCC and S311 P-10 GSFC connectors. However they are manufactured in accordance with ESA NASA and MIL-DTL-24308.

Consequently no traceability information can be delivered for these items.

This version is suitable for engineering models as well as flight models.

Engineering models ordering information



Note: Code U only used for the 5**, 8** and 7** series.

Engineering models contact termination code

Code for Ø0.63	Code for Ø0.76	Contact type	Bracket	Pitch	Clinch nuts	Footprint
011	011	Solder buckets				
311	211	Straight PC tail				
	711	90° PC tail		2.84 mm		US
511	2A0N	90° PC tail	No	2.54 mm		European
811	2B0N	90° PC tail	No	2.84 mm		European
1A9N	2A9N	90° PC tail	Yes	2.54 mm	M3	European
1B9N	2B9N	90° PC tail	Yes	2.84 mm	M3	European
	2AUN	90° PC tail	Yes	2.54 mm		European
	2BUN	90° PC tail	Yes	2.84 mm		European
1A7N	2A7N	90° PC tail	Yes	2.54 mm	UNC 4-40	European
1B7N	2B7N	90° PC tail	Yes	2.84 mm	UNC 4-40	European
	2B7S	90° PC tail	Yes	2.84 mm	UNC 4-40	US
	2B9S	90° PC tail	Yes	2.84 mm	M3	US
411	411	Wire wrap 3 wraps				

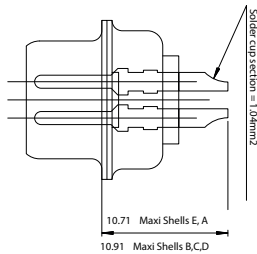
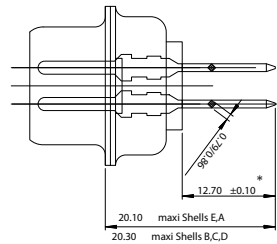
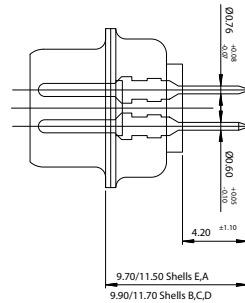
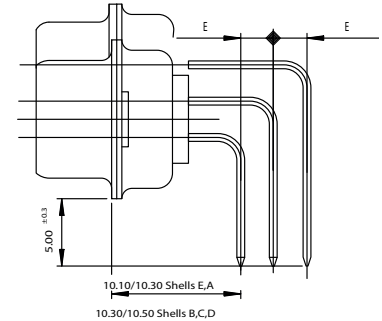
European Footprint: Distance from rear of flange to first row: 9.40 mm (.37 inch).

US Footprint: Distance from rear of flange to first row: 7.19 mm (.283 inch).

Flight models dimensions

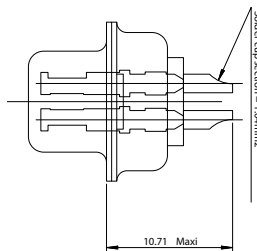
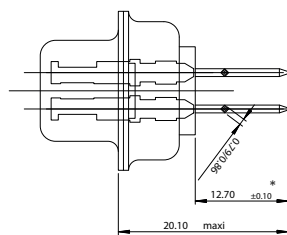
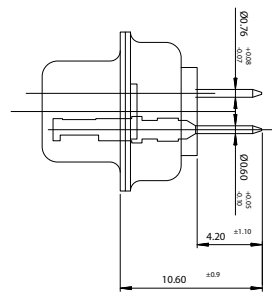
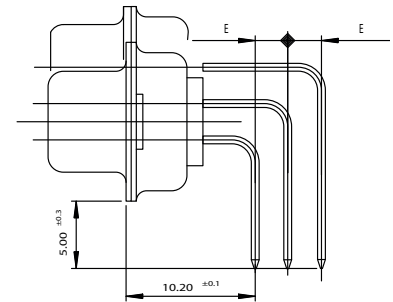
2

Male connectors (solder contacts / wire wrap contacts / straight PC tail contacts / 90° PC tail contacts, without bracket)

Solder contacts
No termination codeWire wrap contacts
F179AStraight PC tail contacts
Z / OL390° PC tail contacts without bracket
1A0N / 2A0N / 1B0N / 2B0N

Female connectors (solder contacts / wire wrap contacts / straight PC tail contacts / 90° PC tail contacts without bracket)

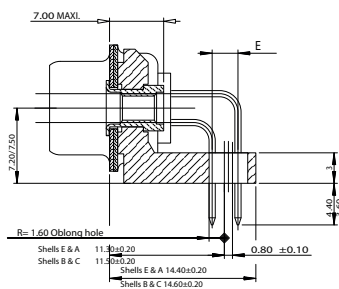
Solder contacts

Wire wrap contacts
F179AStraight PC tail contacts
Z / OL390° PC tail contacts without bracket
1A0N / 2A0N / 1B0N / 2B0N

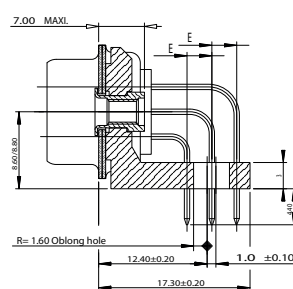
* The dimension is the length of the square part of the contact.

Male connectors with 90° PC tail contacts and bracket

Shell size E to C

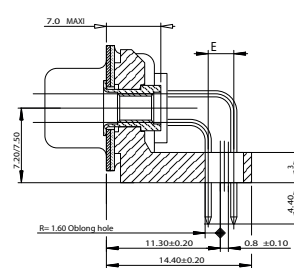


Shell size D

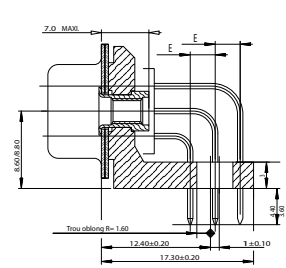


Female connectors with 90° PC tail contacts and bracket

Shell size E to C



Shell size D



Contact termination code

E (pitch between row)

1A0N, 2A0N, 1A7N, 2A7N, 1A9N, 2A9N

2.54mm

1B0N, 2B0N, 1B7N, 2B7N, 1B9N, 2B9N

2.84mm

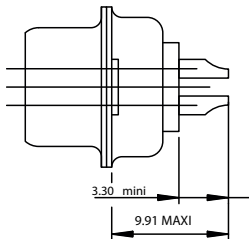
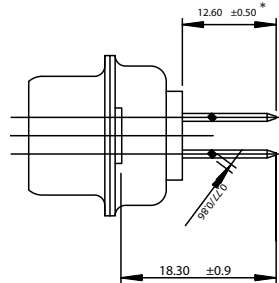
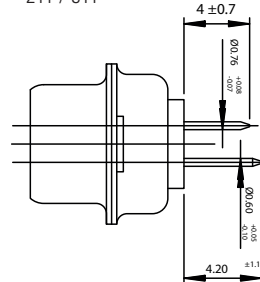
The dimensions of the 90° PC tail are the same as the PC tail for the part number 1A0N & 2A0N.

Standard density D-Sub connector with non removable contacts

Engineering models dimensions

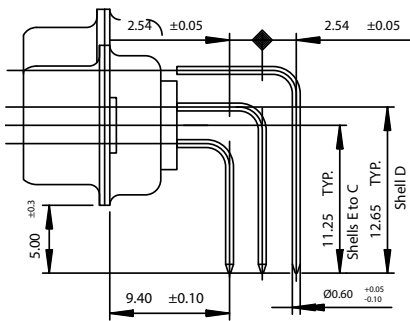
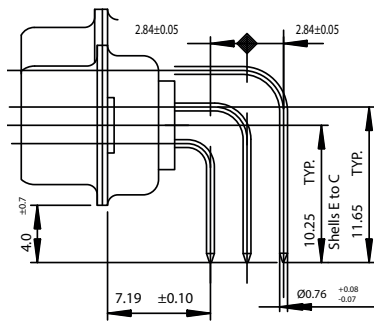
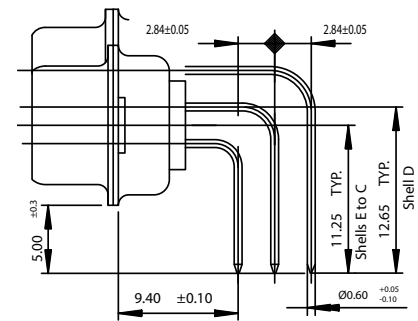
Male and female connectors (solder contacts / wire wrap contacts / straight PC tail contacts)

2

Solder contacts
011Wire wrap contacts
411Straight PC tail contacts
211 / 311

* The dimension is the length of the square part of the contact.

Male and female connectors with 90° PC tail contacts, without bracket

European footprint
511US footprint
711European footprint
811

Connectors

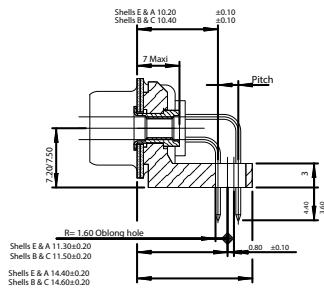
Standard density D-Sub connector with non removable contacts

Engineering models dimensions

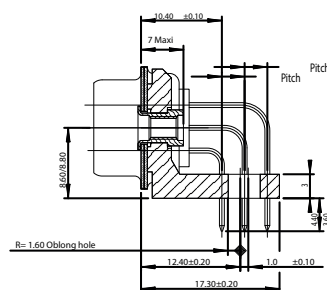
2

Male connectors with 90° PC tail contacts and bracket

European footprint
Shell size E to C

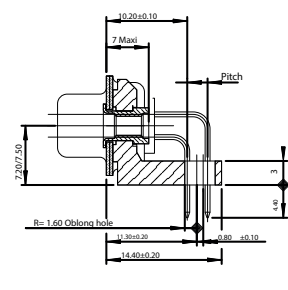


European footprint
Shell size D

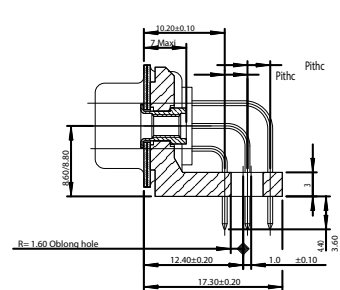


Female connectors with 90° PC tail contacts and bracket

European footprint
Shell size E to C



European footprint
Shell size D

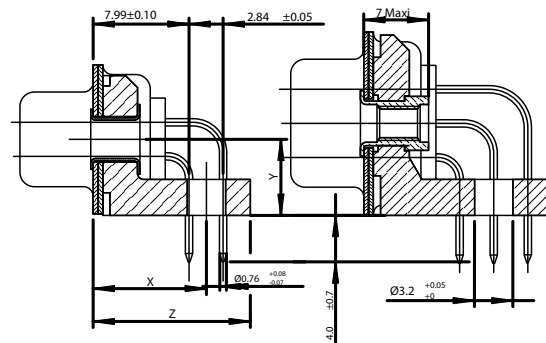
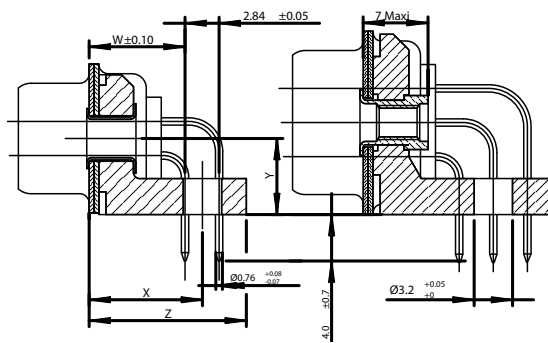


Contact termination code **Pitch between row**

1A9N, 2A9N, 1A7N, 2A7N	2.54mm
1B9N, 2B9N, 1B7N, 2B7N	2.84mm

Male and female connectors with 90° PC tail contacts and bracket

US footprint
711 / 2B7S / 2B9S

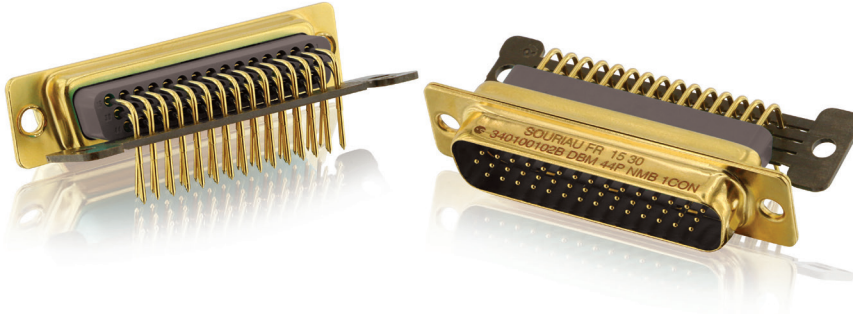


	W		X min		X max		Y		Z min		Z max	
Shell size	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E, A	.315	7.99	.365	9.28	.378	9.60	.250	6.34	.509	12.94	.518	13.16
B, C	.322	8.19	.373	9.48	.386	9.80	.250	6.34	.517	13.14	.526	13.36
D	.322	8.19	.428	10.87	.441	11.19	.302	7.67	.615	15.63	.624	15.85

	X min		X max		Y		Z min		Z max	
Shell size	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E, A, B, C	.365	9.28	.378	9.60	.250	6.34	.509	12.94	.518	13.16
D	.420	10.67	.433	10.99	.302	7.67	.607	15.43	.616	15.65

Cross reference - Connector with solder contacts

		GSFC part number	MIL-DTL-24308E part number	ESA/SCC part number (flight models)	Eaton Souriau part number (engineering models)
Pin contacts	Standard mount	311P10-1P-B-12	M24308/7-23	340100101BDEM9PNMB	DEM 09P 011 NMB
		311P10-6P-B-12		340100101BDEM5W1PNMB	DEM 5W1P 011 NMB
		311P10-2P-B-12	M24308/7-24	340100101BDAM15PNMB	DAM 15P 011 NMB
		311P10-7P-B-12		340100101BDAM3W3PNMB	DAM 3W3P 011 NMB
		311P10-8P-B-12		340100101BDAM7W2PNMB	DAM 7W2P 011 NMB
		311P10-9P-B-12		340100101BDAM11W1PNMB	DAM 11W1P 011 NMB
		311P10-3P-B-12	M24308/7-25	340100101BDBM25PNMB	DBM 25P 011 NMB
		311P10-10P-B-12		340100101BDBM5W5PNMB	DBM 5W5P 011 NMB
		311P10-11P-B-12		340100101BDBM9W4PNMB	DBM 9W4P 011 NMB
		311P10-12P-B-12		340100101BDBM13W3PNMB	DBM 13W3P 011 NMB
		311P10-13P-B-12		340100101BDBM17W2PNMB	DBM 17W2P 011 NMB
		311P10-4P-B-12	M24308/7-26	340100101BDCM37PNMB	DCM 37P 011 NMB
		311P10-15P-B-12		340100101BDCM8W8PNMB	DCM 8W8P 011 NMB
		311P10-17P-B-12		340100101BDCM17W5PNMB	DCM 17W5P 011 NMB
		311P10-18P-B-12		340100101BDCM21WA4PNMB	DCM 21WA4P 011 NMB
		311P10-20P-B-12		340100101BDCM25W3PNMB	DCM 25W3P 011 NMB
		311P10-21P-B-12		340100101BDCM27W2PNMB	DCM 27W2P 011 NMB
		311P10-5P-B-12	M24308/7-27	340100101BDDM50PNMB	DDM 50P 011 NMB
		311P10-22P-B-12		340100101BDDM24W7PNMB	DDM 24W7P 011 NMB
		311P10-23P-B-12		340100101BDDM36W4PNMB	DDM 36W4P 011 NMB
Socket contacts	Float mount		M24308/7-39		DEMF 09P 011 NMB
			M24308/7-40		DAMF 15P 011 NMB
			M24308/7-41		DBMF 25P 011 NMB
			M24308/7-42		DCMF 37P 011 NMB
			M24308/7-43		DDMF 50P 011 NMB
	Standard mount	311P10-1S-B-12	M24308/5-34	340100101BDEM9SNMB	DEM 09S 011 NMB
		311P10-6S-B-12		340100101BDEM5W1SNMB	DEM 5W1S 011 NMB
		311P10-2S-B-12	M24308/5-35	340100101BDAM15SNMB	DAM 15S 011 NMB
		311P10-7S-B-12		340100101BDAM3W3SNMB	DAM 3W3S 011 NMB
		311P10-8S-B-12		340100101BDAM7W2SNMB	DAM 7W2S 011 NMB
		311P10-9S-B-12		340100101BDAM11W1SNMB	DAM 11W1S 011 NMB
		311P10-3S-B-12	M24308/5-36	340100101BDBM25SNMB	DBM 25S 011 NMB
		311P10-10S-B-12		340100101BDBM5W5SNMB	DBM 5W5S 011 NMB
		311P10-11S-B-12		340100101BDBM9W4SNMB	DBM 9W4S 011 NMB
		311P10-12S-B-12		340100101BDBM13W3SNMB	DBM 13W3S 011 NMB
		311P10-13S-B-12		340100101BDBM17W2SNMB	DBM 17W2S 011 NMB
		311P10-4S-B-12	M24308/5-37	340100101BDCM37SNMB	DCM 37S 011 NMB
		311P10-15S-B-12		340100101BDCM8W8SNMB	DCM 8W8S 011 NMB
		311P10-17S-B-12		340100101BDCM17W5SNMB	DCM 17W5S 011 NMB
		311P10-18S-B-12		340100101BDCM21WA4SNMB	DCM 21WA4S 011 NMB
		311P10-20S-B-12		340100101BDCM25W3SNMB	DCM 25W3S 011 NMB
		311P10-21S-B-12		340100101BDCM27W2SNMB	DCM 27W2S 011 NMB
		311P10-5S-B-12	M24308/5-38	340100101BDDM50SNMB	DDM 50S 011 NMB
		311P10-22S-B-12		340100101BDDM24W7SNMB	DDM 24W7S 011 NMB
		311P10-23S-B-12		340100101BDDM36W4SNMB	DDM 36W4S 011 NMB
	Float mount		M24308/5-56		DEMF 09S 011 NMB
			M24308/5-57		DAMF 15S 011 NMB
			M24308/5-58		DBMF 25S 011 NMB
			M24308/5-59		DCMF 37S 011 NMB
			M24308/5-60		DDMF 50S 011 NMB



High density with non removable contacts

Standards

ESA/ESCC 3401/001 / MIL-DTL-24308

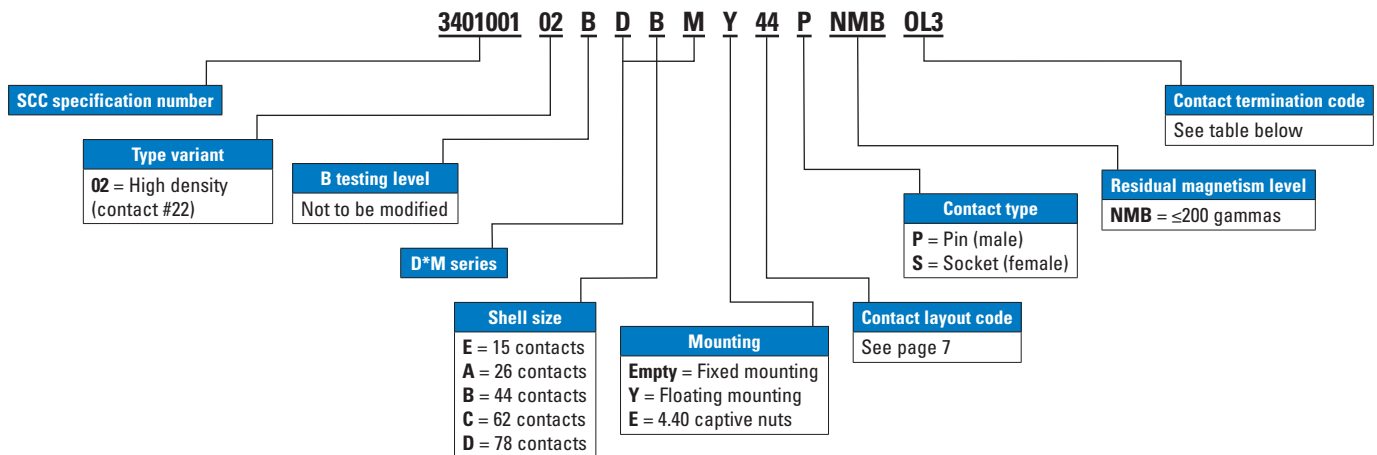
High density and Non removable contacts.

ESCC 3401/001 non-magnetic connectors are equipped with non removable contacts.

They are available with straight PC tail, 90° PC tail, contacts.

The connectors are flight qualified parts.

Flight models ordering information



Flight models contact termination code

For 15 to 62 contacts (shell size: E, A, B & C)	For 78 contacts (shell size: D)	Contact type	Bracket	Click nuts
OL3	OL3	Straight PC tail		
1CON	1DON	90° PC tail	No	
1C7N	1D7N	90° PC tail	Yes	UNC 4-40
1C9N	1D9N	90° PC tail	Yes	M3

High density D-Sub connector with non removable contacts



High density with non removable contacts

2

Standards

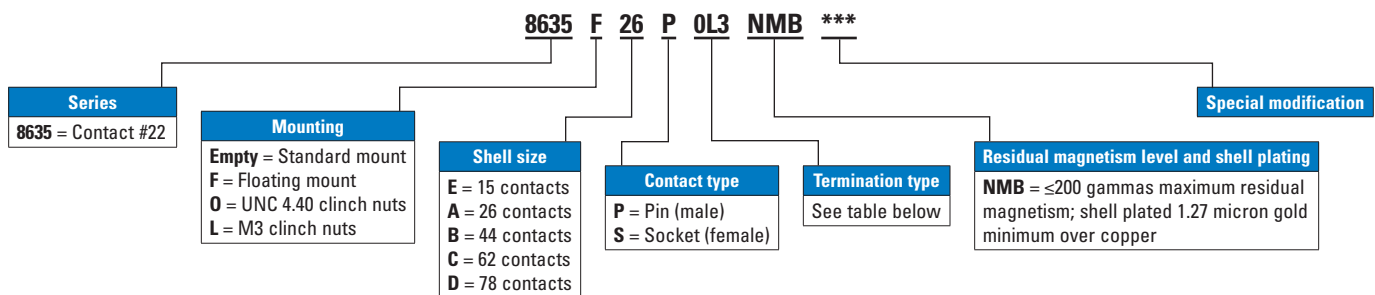
8635-NMB with PC tail contacts

These 8635-NMB non-magnetic connectors use the same components as the ESA and NASA specification.

Consequently no traceability information can be delivered for these items.

This version is suitable for engineering models as well as flight models.

Engineering models ordering information



Engineering models contact termination code

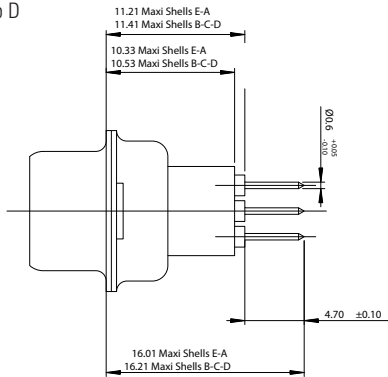
Code	Contact type	Shell size	Bracket	Clinch nuts	Pitch
0L3	Straight PC tail				
1CON	90° PC tail, disposable drilled bar	E, A, B, C			1.98
1DON	90° PC tail, disposable drilled bar	D			2.08
1CUN*	90° PC tail	E, A, B, C	Yes		1.98
1DUN*	90° PC tail	D	Yes		2.08
1C7N	90° PC tail	E, A, B, C	Yes	UNC 4-40	1.98
1D7N	90° PC tail	D	Yes	UNC 4-40	2.08
1C9N	90° PC tail	E, A, B, C	Yes	M3	1.98
1D9N	90° PC tail	D	Yes	M3	2.08

* No ESA/SCC equivalent version.

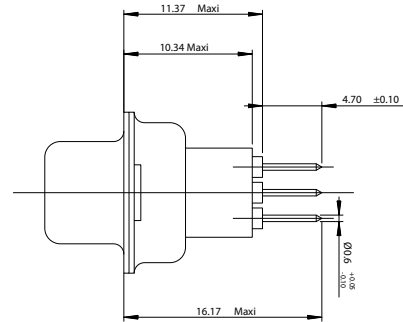
Dimensions

2

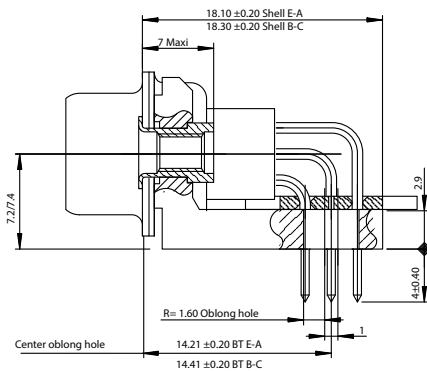
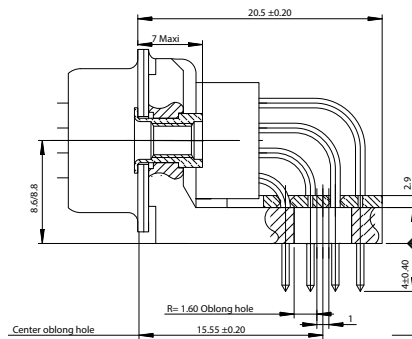
Male connectors with straight PC tail contacts

Shell size E to D
OL3

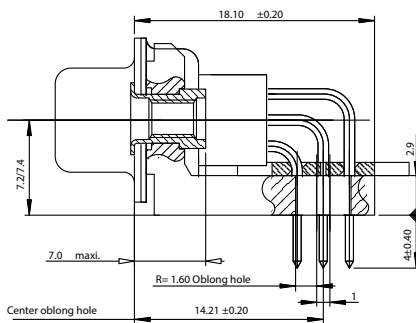
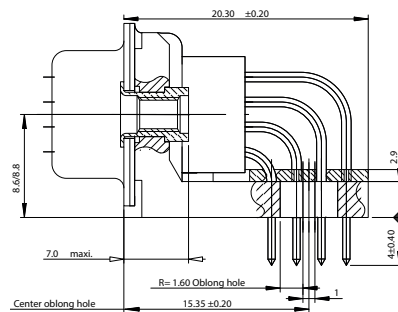
Female connectors with straight PC tail contacts

Shell size E to D
OL3

Male connectors with 90° PC tail contacts and bracket

Shell size E to C
1C7N / 1C9NShell size D
1C7N / 1C9N

Female connectors with 90° PC tail contacts and bracket

Shell size E to C
1C7N / 1C9NShell size D
1C7N / 1C9N

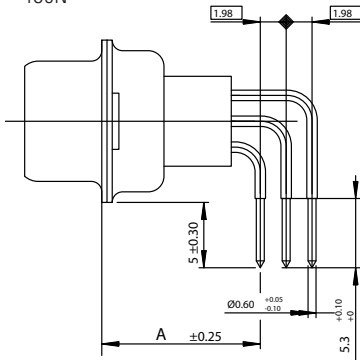
Note: the dimensions of the 90° PC tail are the same for all configurations.

Dimensions

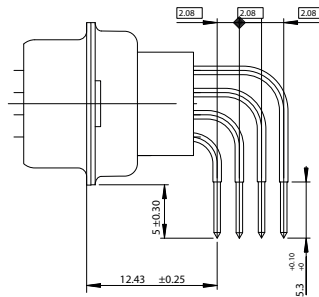
Male connectors with 90° PC tail contacts, without bracket

2

Shell size E to C
1CON

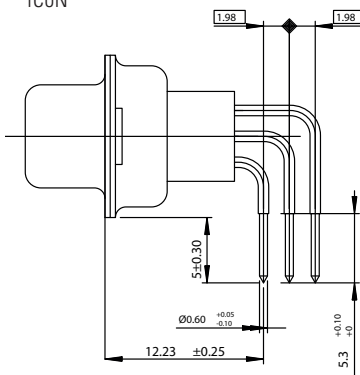


Shell size D
1DON

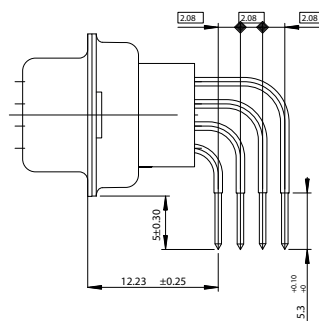


Female connectors with 90° PC tail contacts, without bracket

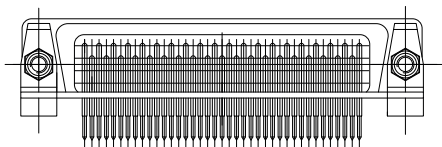
Shell size E to C
1CON



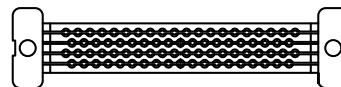
Shell size D
1DON



Rear view of the connectors with 90° PC tail contacts



Connectors delivered with brittle drilled bar



Note: the dimensions of the 90° PC tail are the same for all configurations.

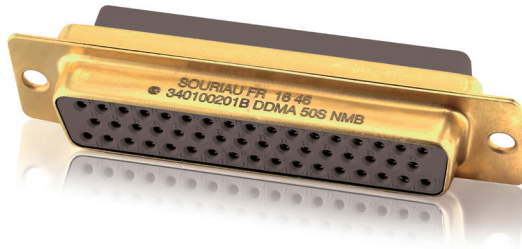
Cross reference

2

	GSFC part number	ESA/SCC part number (flight models)	Eaton Souriau part number (engineering models)
Pin contacts	311P407-1P-B-12	340100202BDEMA15PNMBFO	8635 15P NMBL
	311P407-2P-B-12	340100202BDAMA26PNMBFO	8635 26P NMBL
	311P407-3P-B-12	340100202BDBMA44PNMBFO	8635 44P NMBL
	311P407-4P-B-12	340100202BDCMA62PNMBFO	8635 62P NMBL
	311P407-5P-B-12	340100202BDDMA78PNMBFO	8635 78P NMBL
Socket contacts	311P407-1S-B-12	340100202BDEMA15SNMBFO	8635 15S NMBL
	311P407-2S-B-12	340100202BDAMA26SNMBFO	8635 26S NMBL
	311P407-3S-B-12	340100202BDBMA44SNMBFO	8635 44S NMBL
	311P407-4S-B-12	340100202BDCMA62SNMBFO	8635 62S NMBL
	311P407-5S-B-12	340100202BDDMA78SNMBFO	8635 78S NMBL

		Military part number for ordering	Eaton Souriau part number for ordering
Pin contacts	Delivered with contacts	M24308/8-345	8635 15P 011 NM
		M24308/8-346	8635 26P 011 NM
		M24308/8-347	8635 44P 011 NM
		M24308/8-348	8635 62P 011 NM
		M24308/8-349	8635 78P 011 NM
	Delivered without contacts	M24308/8-362	8635 15P NML
		M24308/8-363	8635 26P NML
		M24308/8-364	8635 44P NML
		M24308/8-365	8635 62P NML
		M24308/8-366	8635 78P NML
Socket contacts	Delivered with contacts	M24308/6-512	8635 15S 011 NMB
		M24308/6-513	8635 26S 011 NMB
		M24308/6-514	8635 44S 011 NMB
		M24308/6-515	8635 62S 011 NMB
		M24308/6-516	8635 78S 011 NMB
	Delivered without contacts	M24308/6-545	8635 15S NMBL
		M24308/6-546	8635 26S NMBL
		M24308/6-547	8635 44S NMBL
		M24308/6-548	8635 62S NMBL
		M24308/6-548	8635 78S NMBL

Standard density D-Sub connector with removable crimp contacts



Standard density with removable crimp contacts

2

Standards

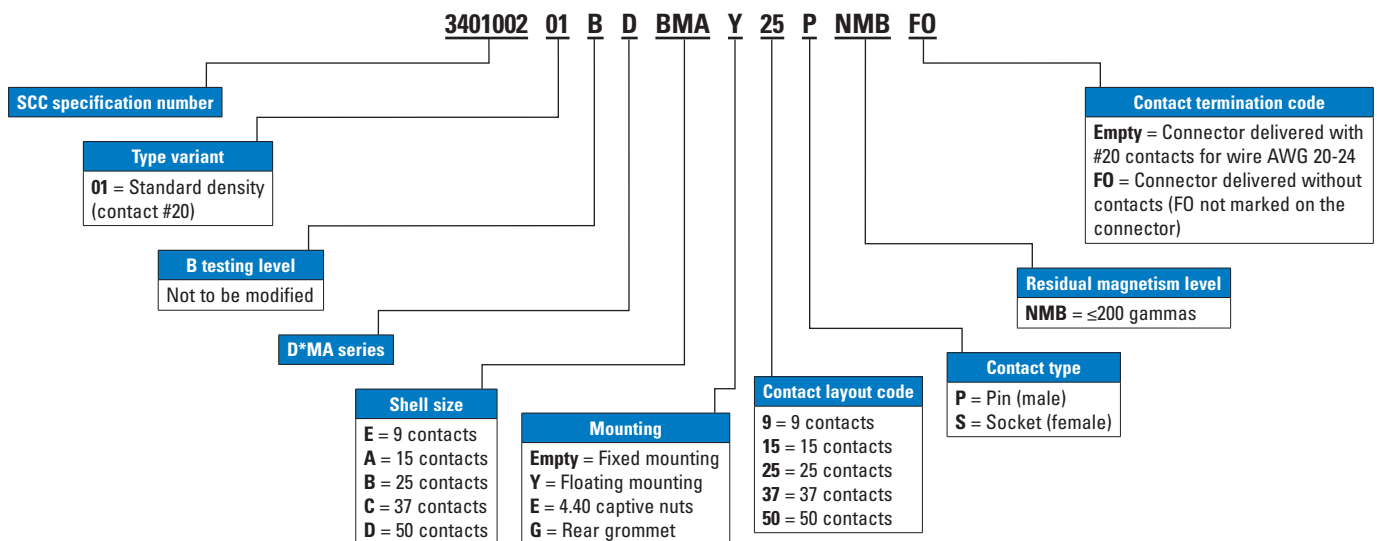
ESA/SCC 3401/002 / GSFC / MIL-DTL-24308 class M(QPL)

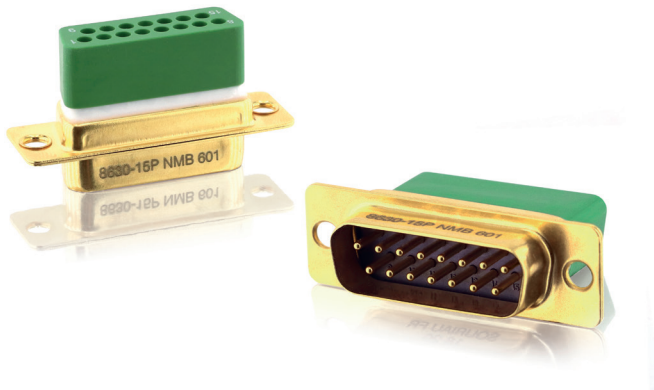
ESA/SCC 3401/002 non-magnetic connectors

are used with ESA/SCC 3401/005 removable crimp contacts.

Standard density (# 20 contacts) layouts are flight qualified parts.

Flight models ordering information





Standard density with removable crimp contacts

Standards

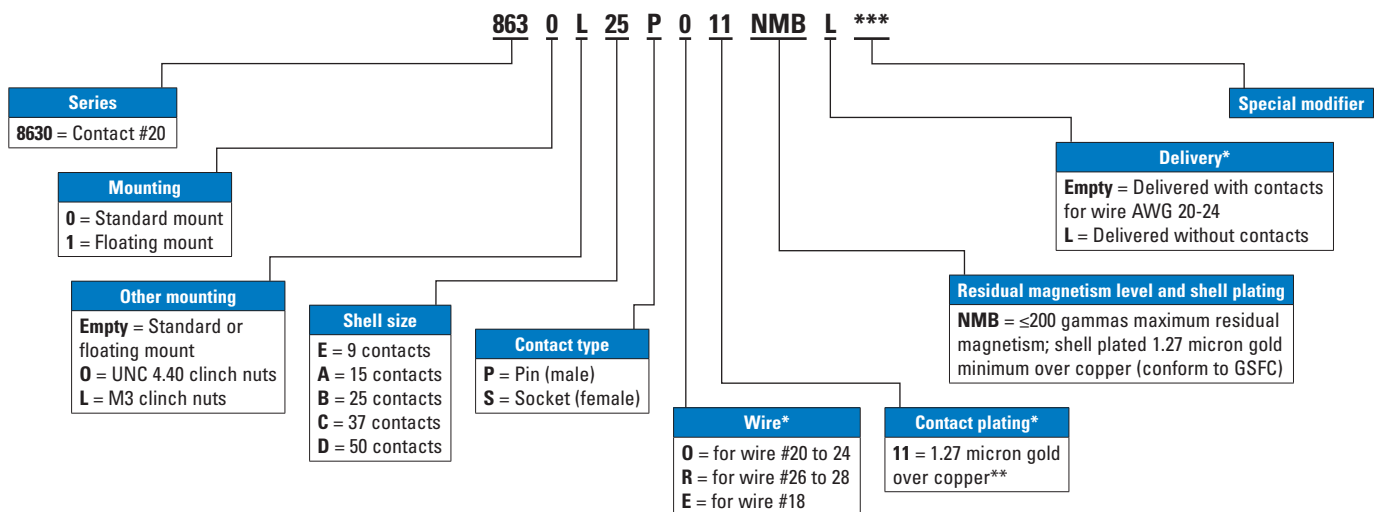
8630-NMB

8630-NMB non-magnetic connectors use the same components as the ESCC 3401 001 01B and S-311-P-4/09 GSFC.

However they are manufactured in accordance with ESA NASA MIL-DTL-24308. Consequently no traceability information can be delivered for these items.

This version is suitable for engineering models as well as flight models.

Engineering models ordering information



* Codes 0, 11 and L are not marked on the connector. They are only used for the P/N.

** To be indicated if connectors are ordered with contacts (no L at the end of the P/N).

Special modifier

Code	Characteristics
601	Grommet and compound, non outgassing
604	Grommet without compound, non outgassing

Standard density D-Sub connector with removable crimp contacts

Cross reference

	GSFC part number	ESA/SCC part number (flight models)	Eaton Souriau part number (engineering models)
Pin contacts	311P409-1P-B-12	340100201BDEMA9PNMBFO	8630 09P NMBL
	311P409-2P-B-12	340100201BDAMA15PNMBFO	8630 15P NMBL
	311P409-3P-B-12	340100201BDBMA25PNMBFO	8630 25P NMBL
	311P409-4P-B-12	340100201BDCMA37PNMBFO	8630 37P NMBL
	311P409-5P-B-12	340100201BDDMA50PNMBFO	8630 50P NMBL
Socket contacts	311P409-1S-B-12	340100201BDEMA9SNMBFO	8630 09S NMBL
	311P409-2S-B-12	340100201BDAMA15SNMBFO	8630 15S NMBL
	311P409-3S-B-12	340100201BDBMA25SNMBFO	8630 25S NMBL
	311P409-4S-B-12	340100201BDCMA37SNMBFO	8630 37S NMBL
	311P409-5S-B-12	340100201BDDMA50SNMBFO	8630 50S NMBL

		Military part number for ordering	Eaton Souriau part number for ordering
Pin contacts	Delivered with contacts	M24308/8-335	8630 09P 011 NMB
		M24308/8-336	8630 15P 011 NMB
		M24308/8-337	8630 25P 011 NMB
		M24308/8-338	8630 37P 011 NMB
		M24308/8-339	8630 50P 011 NMB
	Delivered without contacts	M24308/8-357	8630 09P NMBL
		M24308/8-358	8630 15P NMBL
		M24308/8-359	8630 25P NMBL
		M24308/8-360	8630 37P NMBL
		M24308/8-361	8630 50P NMBL
Socket contacts	Delivered with contacts	M24308/6-502	8630 09S 011 NMB
		M24308/6-503	8630 15S 011 NMB
		M24308/6-504	8630 25S 011 NMB
		M24308/6-505	8630 37S 011 NMB
		M24308/6-506	8630 50S 011 NMB
	Delivered without contacts	M24308/6-540	8630 09S NMBL
		M24308/6-541	8630 15S NMBL
		M24308/6-542	8630 25S NMBL
		M24308/6-543	8630 37S NMBL
		M24308/6-544	8630 50S NMBL



High density with removable crimp contacts

Standards

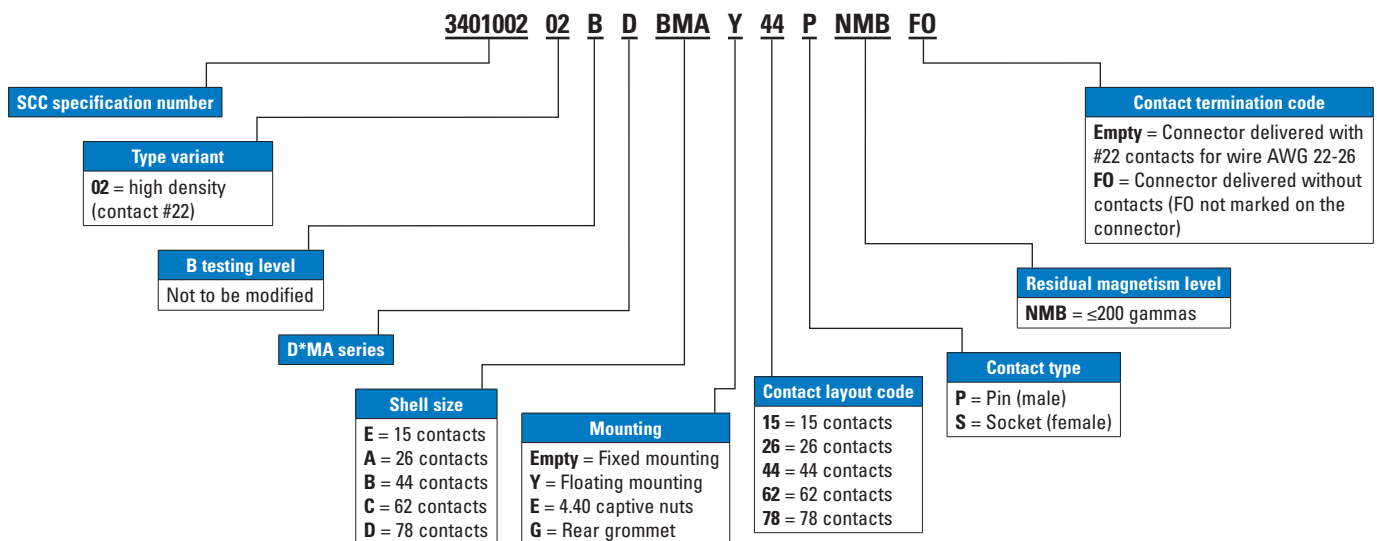
ESA/SCC 3401/002 / GSFC / MIL-DTL-24308 class M (QPL)

ESA/SCC 3401/002 non-magnetic connectors.

are used with ESA/SCC 3401/005 removable crimp contacts.

High density (# 22 contacts) layouts are flight qualified parts.

Flight models ordering information



High density D-Sub connector with removable crimp contacts



High density with removable crimp contacts

2

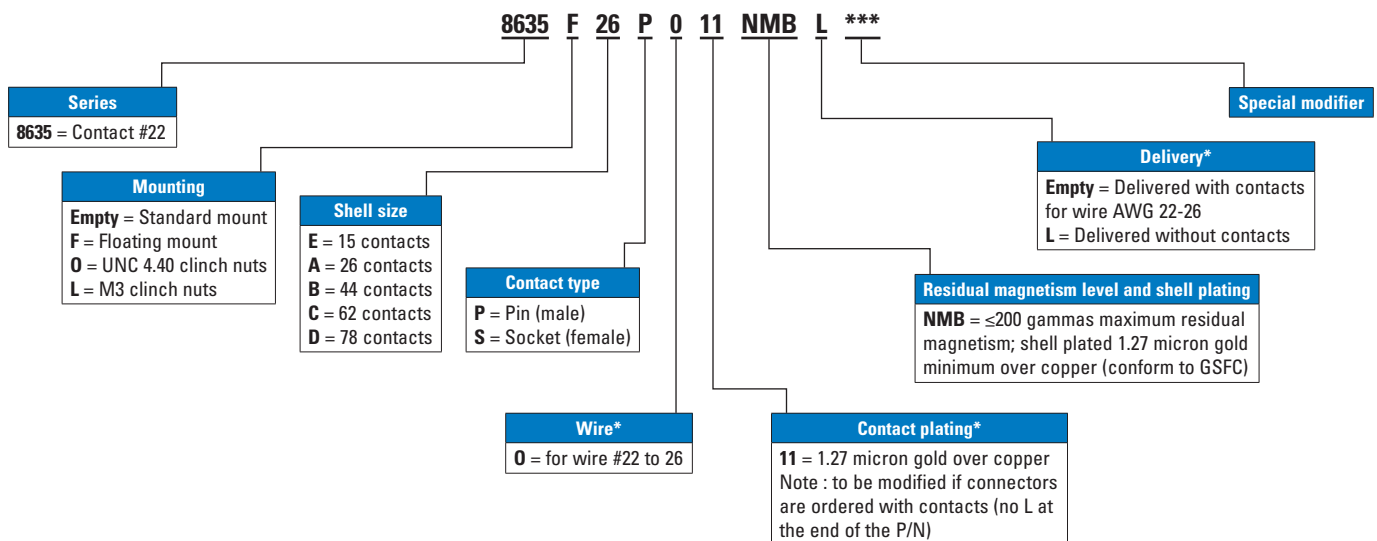
Standards

8635-NMB with crimp contacts

These 8635-NMB non-magnetic connectors use the same components as the ESCC 3401 002 02B and S311-P-4/07 GSFC connectors. However they are manufactured in accordance with ESA and NASA specification. Consequently no traceability information can be delivered for these items.

This version is suitable for engineering models as well as flight models.

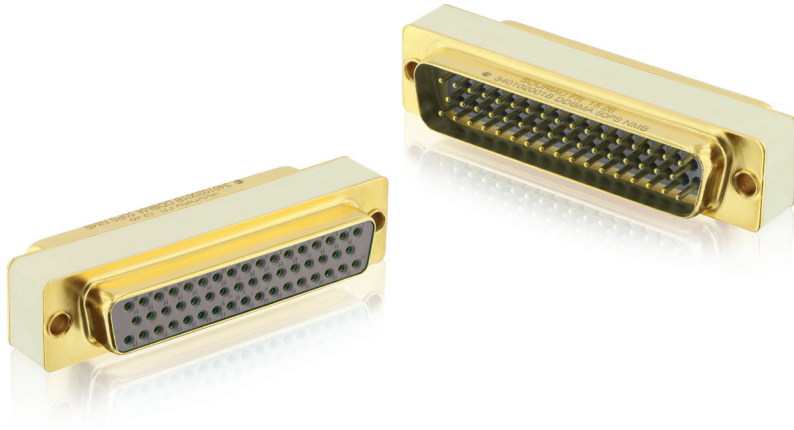
Engineering models ordering information



* The codes 0, 11 and L are not marked on the connector. They are only used for the P/N.

Special modifier

Code	Characteristics
601	Grommet and compound, non outgassing
604	Grommet without compound, non outgassing



Standard and high density savers with removable contacts

Standards

ESA/SCC 3401/020

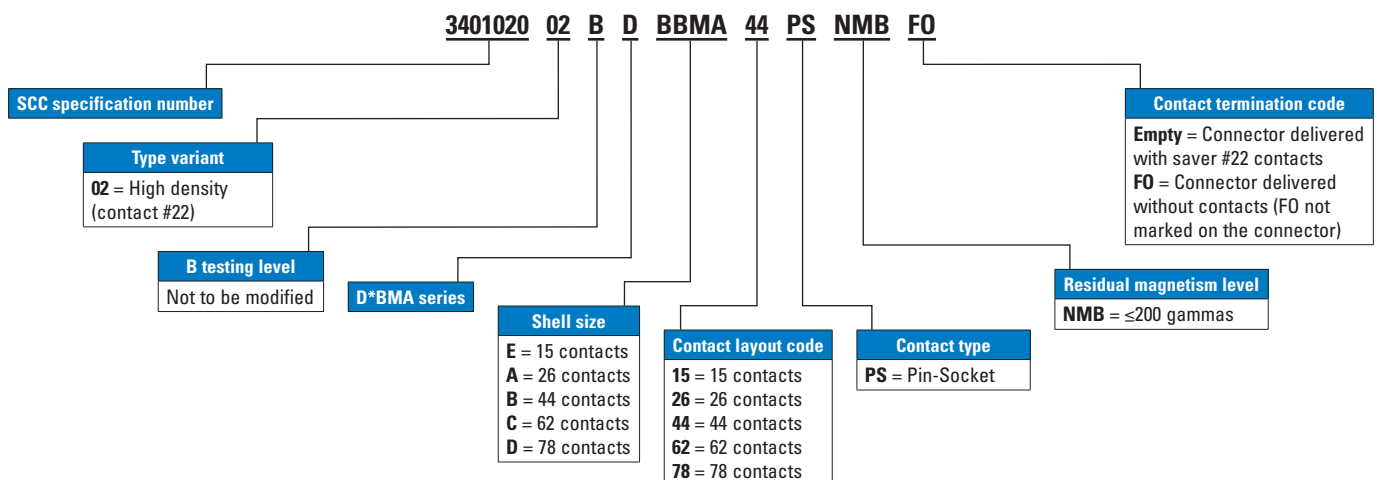
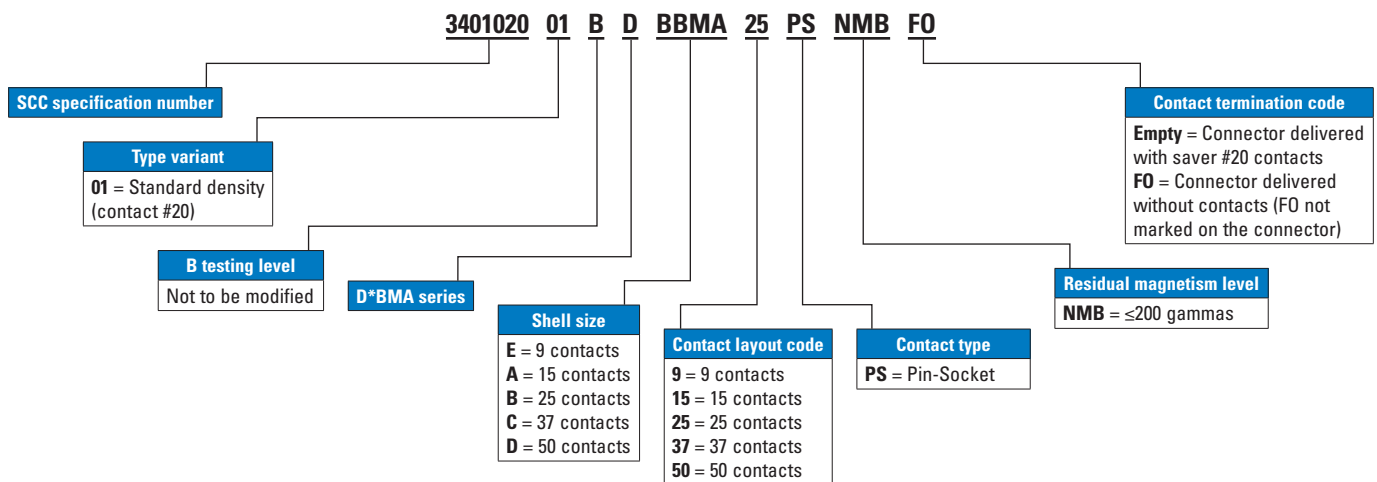
ESA/SCC 3401/020 savers are used to protect flight equipment connectors from multiple matings, during tests.

They are used also on a bulkhead as feed-thru connectors.

They are used with ESA/SCC 3401 021 pinsocket contacts.

These products are also suitable for flight.

Flight models ordering information



Standard and high density D-Sub connector savers with removable crimp contacts



Standard and high density savers with removable contacts

2

Standards

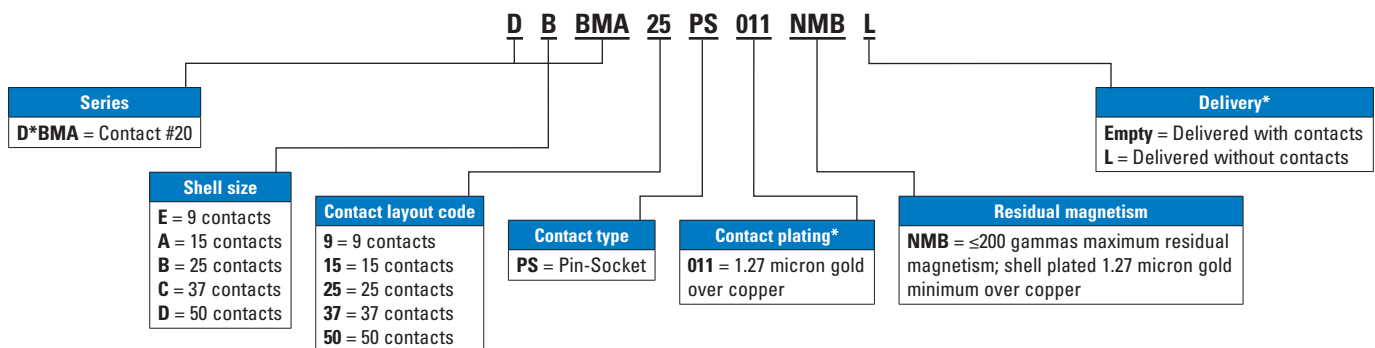
D*BMA-NMB

D*BMA-NMB savers connectors are derived from ESCC 3401 020 savers.

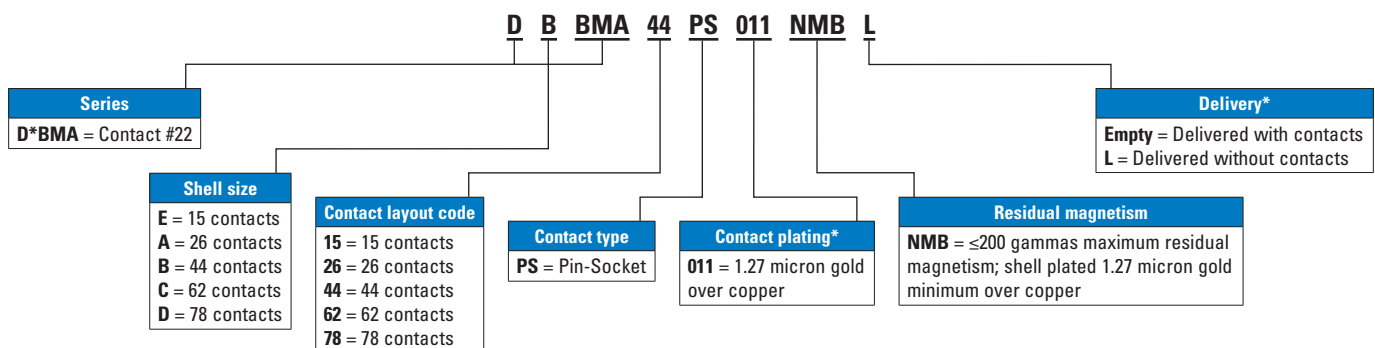
However they are manufactured in accordance with ESA. Consequently no traceability information can be delivered for these items.

This version is suitable for engineering models as well as flight models.

Engineering models ordering information



* Codes 011 and L are not marked on the connector. They are only used for the P/N.

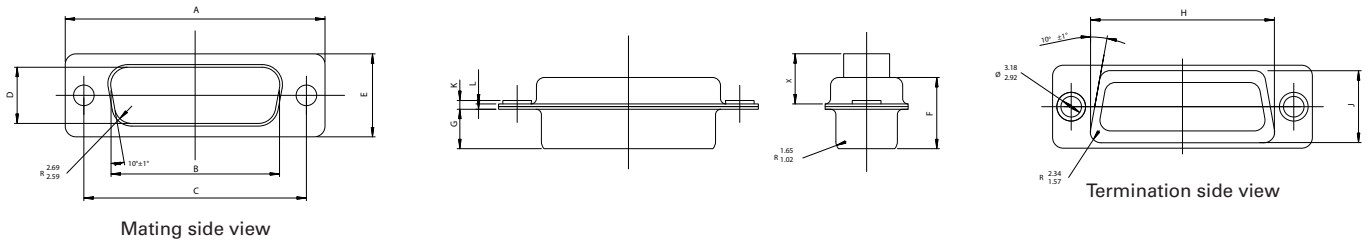


* Codes 011 and L are not marked on the connector. They are only used for the P/N.

Dimensions

2

Male connector



For the dimension X: 6,38 mm MAXI for 3401 001 01B & D*M
9,53 mm MAXI for 3401 001 02B, 3401 002, 8630 & 8635

Shell size	A min		A max		B min		B max		C min		C max		D min		D max	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E	1.198	30.43	1.228	31.19	.661	16.79	.671	17.04	.979	24.87	.989	25.12	.324	8.23	.334	8.48
A	1.526	38.76	1.556	39.52	.989	25.12	.999	25.37	1.307	33.2	1.317	33.45	.324	8.23	.334	8.48
B	2.073	52.65	2.103	53.42	1.529	38.84	1.539	39.09	1.847	46.91	1.857	47.17	.324	8.23	.334	8.48
C	2.714	68.94	2.744	69.7	2.177	55.3	2.187	55.55	2.495	63.37	2.505	63.63	.324	8.23	.334	8.48
D	2.620	66.55	2.650	67.31	2.074	52.68	2.084	52.93	2.401	60.99	2.411	61.24	.431	10.95	.441	11.2

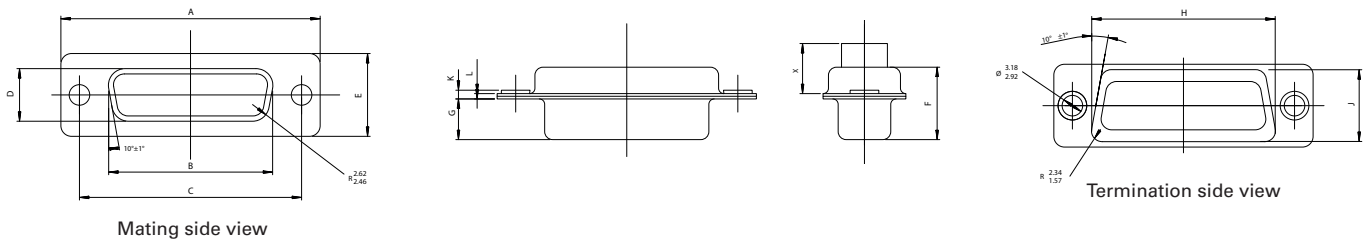
Shell size	E min		E max		F min		F max		G min		G max		H min		H max	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E	.479	12.17	.509	12.93	.412	10.46	.432	10.97	.229	5.82	.241	6.12	.749	19.02	.769	19.53
A	.479	12.17	.509	12.93	.412	10.46	.432	10.97	.229	5.82	.241	6.12	1.073	27.25	1.093	27.76
B	.479	12.17	.509	12.93	.416	10.57	.436	11.07	.224	5.69	.236	5.99	1.615	41.02	1.635	41.53
C	.479	12.17	.509	12.93	.416	10.57	.436	11.07	.224	5.69	.236	5.99	2.262	57.45	2.282	57.96
D	.590	14.99	.620	15.75	.416	10.57	.436	11.07	.224	5.69	.236	5.99	2.168	55.07	2.188	55.58

Shell size	J min		J max		K min		K max		L min		L max	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E	.412	10.46	.432	10.97	.035	0.89	.060	1.52	.020	0.51	.040	1.02
A	.412	10.46	.432	10.97	.035	0.89	.060	1.52	.020	0.51	.040	1.02
B	.412	10.46	.432	10.97	.050	1.27	.070	1.78	.029	0.74	.049	1.24
C	.412	10.46	.432	10.97	.050	1.27	.070	1.78	.029	0.74	.049	1.24
D	.524	13.31	.544	13.82	.050	1.27	.070	1.78	.029	0.74	.049	1.24

Dimensions

Female connector

2



For the dimension X: 6,38 mm MAXI for 3401 001 01B & D*M
9,53 mm MAXI for 3401 001 02B, 3401 002, 8630 & 8635

Shell size	A min inches	A min mm	A max inches	A max mm	B min inches	B min mm	B max inches	B max mm	C min inches	C min mm	C max inches	C max mm	D min inches	D min mm	D max inches	D max mm
E	1.198	30.43	1.228	31.19	.638	16.21	0.648	16.46	.979	24.87	.989	25.12	.306	7.77	.316	8.03
A	1.526	38.76	1.556	39.52	.966	24.54	.976	24.79	1.307	33.2	1.317	33.45	.306	7.77	.316	8.03
B	2.073	52.65	2.103	53.42	1.506	38.25	1.516	38.51	1.847	46.91	1.857	47.17	.306	7.77	.316	8.03
C	2.714	68.94	2.744	69.69	2.154	54.71	2.164	54.97	2.495	63.37	2.505	63.63	.306	7.77	.316	8.03
D	2.620	66.55	2.650	67.31	2.059	52.3	2.069	52.55	2.401	60.99	2.411	61.24	.418	10.62	.428	10.87

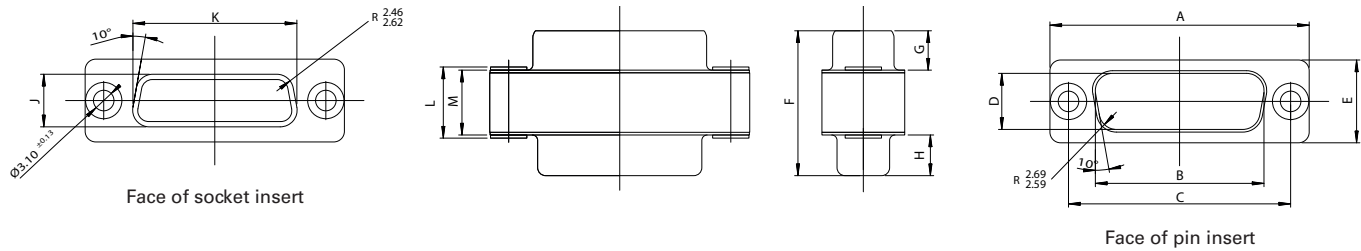
Shell size	E min inches	E min mm	E max inches	E max mm	F min inches	F min mm	F max inches	F max mm	G min inches	G min mm	G max inches	G max mm	H min inches	H min mm	H max inches	H max mm
E	.479	12.17	.509	12.93	.419	10.64	.439	11.15	.238	6.05	.248	6.3	.749	19.02	.769	19.53
A	.479	12.17	.509	12.93	.419	10.64	.439	11.15	.238	6.05	.248	6.3	1.073	27.25	1.093	27.76
B	.479	12.17	.509	12.93	.419	10.64	.439	11.15	.238	6.05	.248	6.3	1.615	41.02	1.635	41.53
C	.479	12.17	.509	12.93	.419	10.64	.439	11.15	.238	6.05	.248	6.3	2.262	57.45	2.282	57.96
D	.590	14.99	.620	15.75	.419	10.64	.439	11.15	.238	6.05	.248	6.3	2.168	55.07	2.188	55.58

Shell size	J min inches	J min mm	J max inches	J max mm	K min inches	K min mm	K max inches	K max mm	L min inches	L min mm	L max inches	L max mm
E	.412	10.46	.432	10.97	.035	0.89	.060	1.52	.020	0.51	.040	1.02
A	.412	10.46	.432	10.97	.035	0.89	.060	1.52	.020	0.51	.040	1.02
B	.412	10.46	.432	10.97	.035	0.89	.060	1.52	.020	0.51	.040	1.02
C	.412	10.46	.432	10.97	.035	0.89	.060	1.52	.020	0.51	.040	1.02
D	.524	13.31	.544	13.82	.035	0.89	.060	1.52	.020	0.51	.040	1.02

Dimensions

2

Saver connector



Shell size	A min inches	A min mm	A max inches	A max mm	B min inches	B min mm	B max inches	B max mm	C min inches	C min mm	C max inches	C max mm	D min inches	D min mm	D max inches	D max mm
E	2.62	66.55	2.65	67.31	2.074	52.68	2.084	52.93	2.401	60.99	2.411	61.24	.431	10.95	.441	11.20
A	2.714	68.94	2.744	69.70	2.177	55.30	2.187	55.55	2.495	63.37	2.505	63.63	.324	8.23	.334	8.48
B	2.073	52.65	2.103	53.42	1.529	38.84	1.539	39.09	1.847	46.91	1.857	47.17	.324	8.23	.334	8.48
C	1.526	38.76	1.556	39.52	.989	25.12	.999	25.37	1.307	33.20	1.317	33.45	.324	8.23	.334	8.48
D	1.198	30.43	1.228	31.19	.661	16.79	.671	17.04	.979	24.87	.989	25.12	.324	8.23	.334	8.48

Shell size	E min inches	E min mm	E max inches	E max mm	F min inches	F min mm	F max inches	F max mm	G min inches	G min mm	G max inches	G max mm	H min inches	H min mm	H max inches	H max mm
E	.590	14.99	.620	15.75	.855	21.72	.875	22.22	.224	5.69	.236	5.99	.238	6.05	.248	6.30
A	.479	12.17	.509	12.93	.855	21.72	.875	22.22	.224	5.69	.236	5.99	.238	6.05	.248	6.30
B	.479	12.17	.509	12.93	.855	21.72	.875	22.22	.224	5.69	.236	5.99	.238	6.05	.248	6.30
C	.479	12.17	.509	12.93	.831	21.12	.851	21.62	.229	5.82	.241	6.12	.238	6.05	.248	6.30
D	.479	12.17	.509	12.93	.831	21.12	.851	21.62	.229	5.82	.241	6.12	.238	6.05	.248	6.30

Shell size	J min inches	J min mm	J max inches	J max mm	K min inches	K min mm	K max inches	K max mm	L min inches	L min mm	L max inches	L max mm	M min inches	M min mm	M max inches	M max mm
E	.418	10.62	.428	10.87	2.059	52.30	2.069	52.55	.402	10.21	.432	10.97	.378	9.61	.398	10.11
A	.306	7.77	.316	8.03	2.154	54.71	2.164	54.97	.402	10.21	.432	10.97	.378	9.61	.398	10.11
B	.306	7.77	.316	8.03	1.506	38.25	1.516	38.51	.402	10.21	.432	10.97	.378	9.61	.398	10.11
C	.306	7.77	.316	8.03	.966	24.54	.976	24.79	.402	10.21	.432	10.97	.378	9.61	.398	10.11
D	.306	7.77	.316	8.03	.638	16.21	.648	16.46	.402	10.21	.432	10.97	.378	9.61	.398	10.11

Crimp contacts

3401 005: crimp contacts for **3401 002** connectors (flight models)

8949 Series: crimp contacts for **8630/8635** connectors (engineering models).

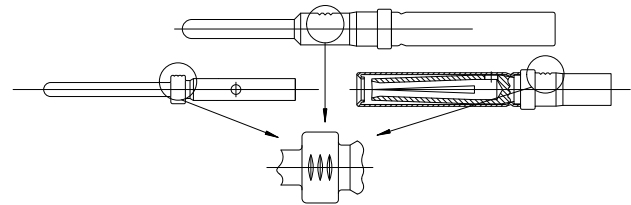
Contact size	Wire type	Contact type	ESA/SCC	Eaton Souriau	
				NMB / 011 1.27 microns gold	NMB / 038 2.54 microns gold
#20	#20/24	Pin	3401 005 01B	8949 1196 Y7 EL	8949 1196 UE EL
		Socket	3401 005 02B	8949 1198 EL	8949 407 EL
	#26/28	Pin	3401 005 03B	8949 1520 Y7 EL	8949 1520 UE EL
		Socket	3401 005 04B	8949 1523 EL	8949 1521 EL
	#18	Pin	3401 005 06B	8949 3227 Y7 EL	8949 3227 UE EL
		Socket	3401 005 06B	8949 3352 EL	8949 3229 EL
#22	#22/26	Pin	3401 005 07B	8949 1524 Y7 EL	8949 1524 UE EL
		Socket	3401 005 08B	8949 1525 EL	8949 1526 EL

Note : the code EL is not marked on the packaging.

Insertion & extraction tool

	Part number
#20	8630-06A
#22	M 81969-14-01

Removable contact identification



Cross reference crimp contacts

Contact size	GSFC part number	ESA/SCC part number (flight models)	Eaton Souriau part number (engineering models)
#20	G10P1	340100501B	8949 1196 Y7 EL
	G10S1	340100502B	8949 1198 EL
	-	340100503B	8949 1520 Y7 EL
	-	340100504B	8949 1523 EL
	-	340100505B	8949 3227 Y7 EL
	-	340100506B	8949 3352 EL
#22	G08P1	340100507B	8949 1524 Y7 EL
	G08S1	340100508B	8949 1525 EL

Saver crimp contacts

3401 021: crimp contacts for **3401 020** connectors (flight models)

8949 Series: crimp contacts for **D*BMA** connectors (engineering models).

Contact size	Contact type	ESA/SCC	Eaton Souriau	
			NMB / 011 1.27 microns gold	NMB / 038 2.54 microns gold
#20	Pin/Socket	3401 021 01B	8949 975 EL	8949 3030 EL
#22	Pin/Socket	3401 021 02B	8949 3362 EL	8949 3373 EL

Coaxial contacts

3

Contact termination	Wire type	Contact type	Contact style	ESA part number (flight models)	Eaton Souriau part number (engineering models)
Solder buckets	RG 178 BU RG 196 AU KX 21 A	Male	straight	3401 004 01B	8949 004 01NMB
		Female	straight	3402 004 02B	8949 004 02NMB
		Male	90°	3403 004 03B	8949 004 03NMB
		Female	90°	3404 004 04B	8949 004 04NMB
	KX 22 A RG 179 BU RG 316 U RG 188 AU & 50 CIS	Male	straight	3405 004 05B	8949 004 05NMB
		Female	straight	3406 004 06B	8949 004 06NMB
		Male	90°	3407 004 07B	8949 004 07NMB
		Female	90°	3408 004 08B	8949 004 08NMB
	RG 180 BU	Male	straight	3409 004 09B	8949 004 09NMB
		Female	straight	3410 004 10B	8949 004 10NMB
	Crimp contacts	Male	straight	3411 004 11B	8949 004 11NMB
		Female	straight	3412 004 12B	8949 004 12NMB
		Male	90°	3412 004 13B	8949 004 13NMB
		Female	90°	3412 004 14B	8949 004 14NMB
		Male	straight	3412 004 15B	8949 004 15NMB
		Female	straight	3412 004 16B	8949 004 16NMB
		Male	90°	3412 004 17B	8949 004 17NMB
		Female	90°	3412 004 18B	8949 004 18NMB
		Male	straight	3412 004 19B	8949 004 19NMB
		Female	straight	3412 004 20B	8949 004 20NMB

50 CIS

according to ESA/SCC 3902 001

RG 176 B/U, RG 178 B/U, RG 179 B/U, RG 180 B/U, RG 196 A/U, RG 316 U, RG 188 A/U

according to MIL-C-17

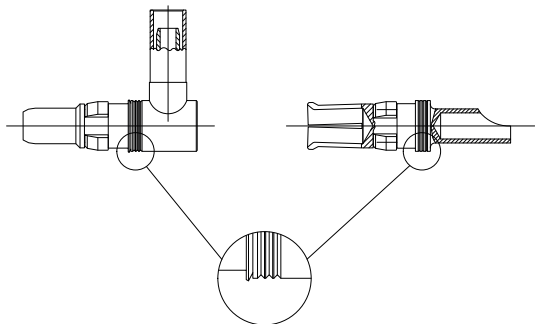
KX 21 A / 22 A

according to NFC 93550

Extraction tool

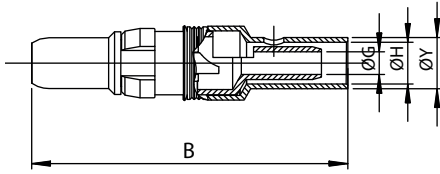
Part number	
#8	8630-07A

3401 004/8949-004 & 3401 040/8949-040 contact identification

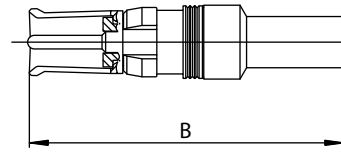


Eaton Souriau's contacts are identified by 3 engraved stripes.

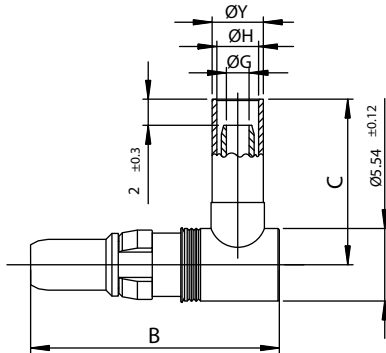
Pin coaxial contact - 01, 05, 11 & 15 variants



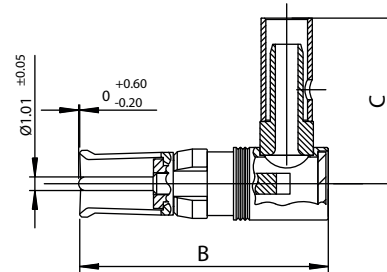
Socket coaxial contact - 02, 06, 12 & 16 variants



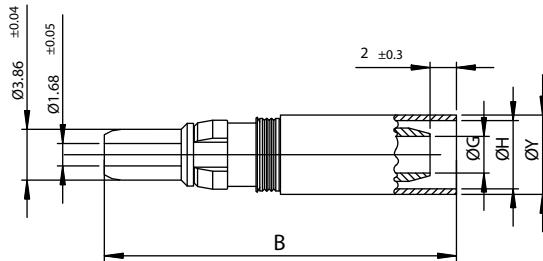
Pin coaxial contact - 03, 07, 13 & 17 variants



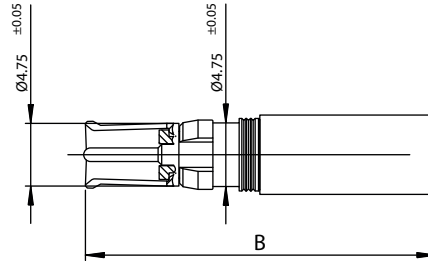
Socket coaxial contact - 04, 08, 14 & 18 variants



Pin coaxial contact - 09 & 19 variants



Socket coaxial contact - 10 & 20 variants



	B réf.		C réf.		ØG min		ØH min		X max		ØY max	
Variant	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
01 - 11	.929	23.60			.035	0.90	.091	2.30	.740	18.80	.128	3.25
02 - 12	.929	23.60			.035	0.90	.091	2.30	.740	18.80	.128	3.25
03 - 13	.734	18.64	.492	12.50	.035	0.90	.091	2.30	.530	13.46	.128	3.25
04 - 14	.734	18.64	.492	12.50	.035	0.90	.091	2.30	.530	13.46	.128	3.25
05 - 15	.929	23.60			.061	1.55	.122	3.10	.740	18.80	.161	4.10
06 - 16	.929	23.60			.061	1.55	.122	3.10	.740	18.80	.161	4.10
07 - 17	.734	18.64	.492	12.50	.061	1.55	.122	3.10	.530	13.46	.161	4.10
08 - 18	.734	18.64	.492	12.50	.061	1.55	.122	3.10	.530	13.46	.161	4.10
09 - 19	1.035	26.30			.100	2.55	.201	5.10	.846	21.50	.244	6.20
10 - 20	1.035	26.30			.100	2.55	.201	5.10	.846	21.50	.244	6.20

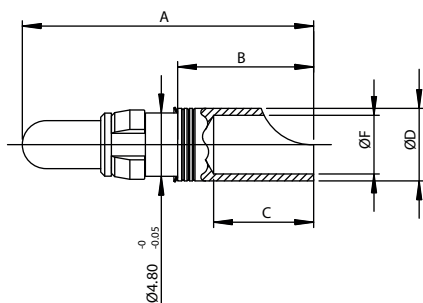
Power solder contacts

Wire type	Contact type	ESA part number (flight models)	Eaton Souriau part number (engineering models)
#8	Pin	3401 040 01B	8949 040 01NMB
	Socket	3401 040 02B	8949 040 02NMB

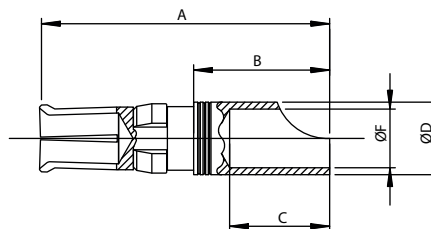
Extraction tool

	Part number
#8	8630-07

Pin power solder contact - 01 variant



Socket power solder contact - 02 variant

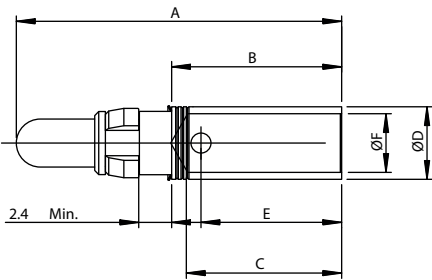


Variant	Contact type	A max		B max		C max		ØD max		ØE max		ØF max	
		inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
01	Pin	.870	22.1	.425	10.80	.320	8.13	.223	5.66			.193	4.90
02	Socket	.858	21.8	.425	10.80	.320	8.13	.223	5.66			.193	4.90

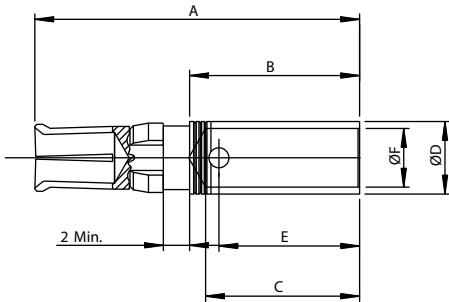
Power crimp contacts

Wire type	Contact type	ESA part number (flight models)	Eaton Souriau part number (engineering models)
#8	Pin	3401 040 07B	8949 040 07NMB
	Socket	3401 040 08B	8949 040 08NMB

Pin power crimp contact - 07 variant



Socket power crimp contact - 08 variant



Variant	Contact type	A max		B max		C min		ØD max		E réf.		ØF min		ØG réf.	
		inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
07	Pin	.972	24.7	.508	12.9	.433	11	.228	5.8	.394	10	.165	4.2	.067	1.7
08	Socket	.969	24.6	.508	12.9	.433	11	.228	5.8	.394	10	.165	4.2	.067	1.7

Wiring tool

	DMC Part number	Eaton Souriau Part number
Crimping tool	M300BT	8476-200
Locator	TH558	8949-1745

Extraction tool

	Part number
#8	8630-07

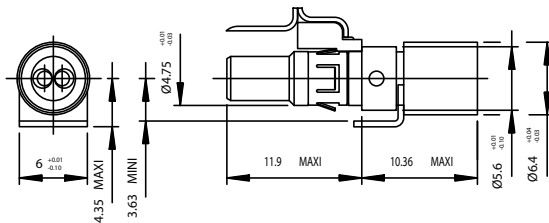
Twinax contacts

These D-Sub Twinax contact size #8 compatible and designed for GORE Ref. GSC-05-80583-00 A or AXON Ref. P5 12806 double braiding cable and for AXON P5 12296 single braiding cable are crimping or soldering type contacts straight or 90°, male and female.

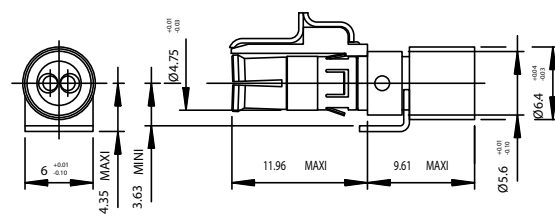
3

Contact type	Part number for double braiding cable		Part number for double braiding cable	
	ESA/SCC	Eaton Souriau	ESA/SCC	Eaton Souriau
Female straight termination	3401 069 02B	8949 004 51 NMB	3401 069 06B	8949 0045 55 NMB
Male straight termination	3401 069 01B	8949 004 50 NMB	3401 069 05B	8949 0045 54 NMB
Female 90° termination	3401 069 04B	8949 004 53 NMB	3401 069 08B	8949 0045 57 NMB
Male 90° termination	3401 069 03B	8949 004 51 NMB	3401 069 07B	8949 0045 56 NMB

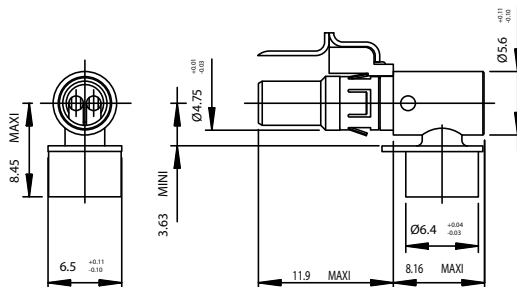
Pin straight termination



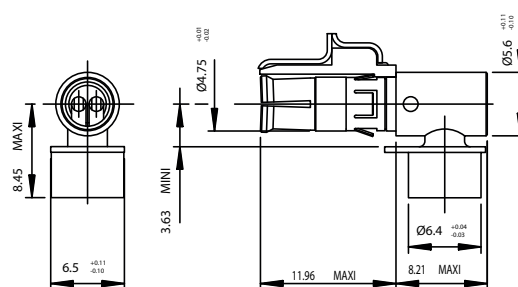
Socket straight termination



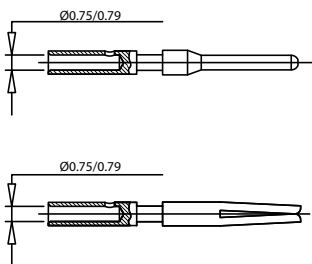
Pin 90° termination



Socket 90° termination



Inner pin and socket contact - Straight termination



For more wiring explanations Eaton Souriau document NC 8949-A-068 is available upon request to our customer service.

Wiring tool

	Inner pin and socket Straight termination	External pin and socket	Inner socket 90° termination
Crimping tool	M 22520/2-01	M 22520/5-01	Solder
Locator	SN 1908 K 101	M 22520/5-45 Hex. B	Solder

3

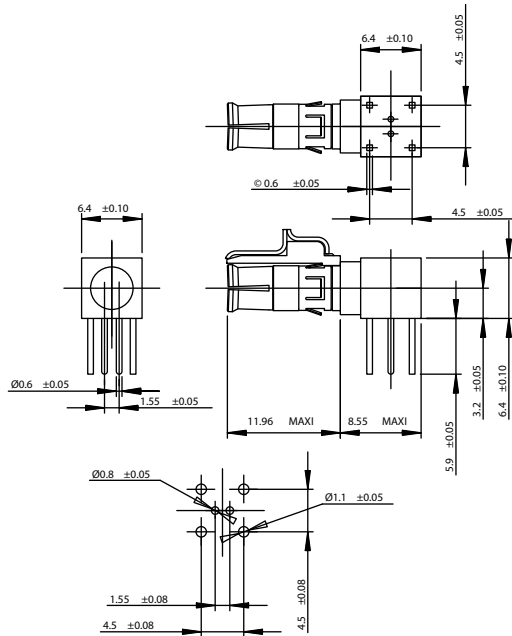
Extraction tool

	Part number
#8	8630-07A

Twinax PC tail contacts

Contact type	Eaton Souriau Part number
Socket	8949 00458 NMB

Twinax contact, 90° PC tail mount



Recommended PC tail configuration

Male screw lock

	Material	Backshell	Shell size	ESA/SCC part number	Eaton Souriau part number
Hex hole head	Brass	Without backshell	B, C: S E, A: P or S	3401 022 65BNMB	D8949 P165 NM
			B, C: P	3401 022 66BNMB	D8949 P166 NM
			D: S	3401 022 67BNMB	D8949 P167 NM
			D: P	3401 022 68BNMB	D8949 P168 NM
		With backshell	B, C: S E, A: P or S	3401 022 69BNMB	D8949 P265 NM
			B, C: P	3401 022 70BNMB	D8949 P266 NM
			D: S	3401 022 71BNMB	D8949 P267 NM
			D: P	3401 022 72BNMB	D8949 P268 NM
	Stainless steel	Without backshell	B, C: S E, A: P or S	3401 022 73B	D8949 P349 NM
			B, C: P	3401 022 74B	D8949 P350 NM
			D: S	3401 022 75B	D8949 P351 NM
			D: P	3401 022 76B	D8949 P352 NM
		With backshell	B, C: S E, A: P or S	3401 022 77B	D8949 P354 NM
			B, C: P	3401 022 78B	D8949 P355 NM
			D: S	3401 022 79B	D8949 P356 NM
			D: P	3401 022 80B	D8949 P357 NM
Slotted head	Brass	Without backshell	B, C: S E, A: P or S	3401 022 02BNMB	D8949 P102 NM
			B, C: P	3401 022 03BNMB	D8949 P103 NM
			D: S	3401 022 04BNMB	D8949 P104 NM
			D: P	3401 022 05BNMB	D8949 P105 NM
		With backshell	B, C: S E, A: P or S	3401 022 44BNMB	D8949 P144 NM
			B, C: P	3401 022 45BNMB	D8949 P145 NM
			D: S	3401 022 45BNMB	D8949 P146 NM
			D: P	3401 022 47BNMB	D8949 P147 NM
	Stainless steel	Without backshell	B, C: S E, A: P or S	3401 022 49B	D8949 P149 NM
			B, C: P	3401 022 50B	D8949 P150 NM
			D: S	3401 022 51B	D8949 P151 NM
			D: P	3401 022 52B	D8949 P152 NM
		With backshell	B, C: S E, A: P or S	3401 022 54B	D8949 P154 NM
			B, C: P	3401 022 55B	D8949 P155 NM
			D: S	3401 022 56B	D8949 P156 NM
			D: P	3401 022 57B	D8949 P157 NM

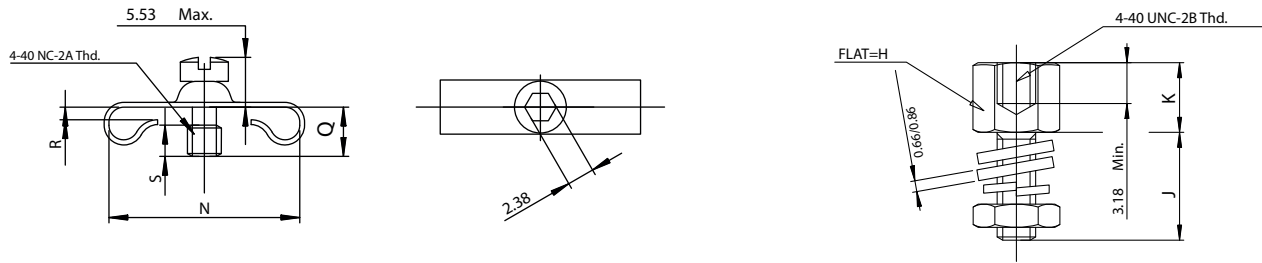


Female screw lock

	Material	ESA/SCC part number (flight models)	Eaton Souriau part number (engineering models)
Standard	Brass	3401 022 01BNMB	D8949 S60 NM
	Stainless steel	3401 022 48B	D8949 S70 NM
For savers	Brass	3401 022 06BNMB	D8949 S61 NM
	Stainless steel	3401 022 53B	D8949 S71 NM



Screw lock dimensions



Male screw lock

	Use with shell size	N min inches mm	N max inches mm	Q min inches mm	Q max inches mm	R min inches mm	R max inches mm	S min inches mm
Without backshell	A, E: P or S B, C: S	.510 12.96	.540 13.72	.127 3.22	.157 3.98	.030 0.75	.037 0.95	.079 2,80
	B, C: P	.510 12.96	.540 13.72	.127 3.22	.157 3.98	.037 0.95	.045 1.15	.079 2,80
	D: S	.620 15.75	.640 16.26	.127 3.22	.157 3.98	.037 0.95	.045 0.95	.079 2,80
	D: P	.620 15.75	.640 16.26	.127 3.22	.157 3.98	.037 0.95	.045 1.15	.079 2,80
With backshell	A, E: P or S B, C: S	.510 12.96	.540 13.72	.166 4.22	.196 4.98	.030 0.75	.077 1.95	.079 2,80
	B, C: P	.510 12.96	.540 13.72	.166 4.22	.196 4.98	.037 0.95	.087 2.20	.079 2,80
	D: S	.620 15.75	.640 16.26	.166 4.22	.196 4.98	.037 0.95	.077 1.95	.079 2,80
	D: P	.620 15.75	.640 16.26	.166 4.22	.196 4.98	.037 0.95	.087 2.20	.079 2,80

Female screw lock

Variant	H min inches mm	H max inches mm	J min inches mm	J max inches mm	K min inches mm	K max inches mm
01 & 48	.172 4.37	.202 5.13	.297 7.54	.327 8.3	.181 4.6	.201 5.1
06 & 53	.172 4.37	.202 5.13	.565 14.35	.577 14.65	.181 4.6	.201 5.1

Male screw lock assemblies for lightweight backshell

Use with shell size with lightweight back shell	Materials	ESA/SCC part number	Eaton Souriau part number
E to C: P or S	Brass	3401 072	D8949 P112 NM
	Stainless steel	3401 072 03B	D8949 P114 NM
D: P or S	Brass	3401 072	D8949 P113 NM
	Stainless steel	3401 072 04B	D8949 P115 NM

Dimensions

Use with shell size with lightweight back shell	N min inches mm	N max inches mm	P inches mm	Q min inches mm	Q max inches mm	R min inches mm	R max inches mm
E to C: P or S	.510 12.96	.540 13.72	.094 2.38	.173 4.4	.203 5.16	.089 2.25	.096 2.45
D: P or S	.620 15.75	.640 16.26	.094 2.38	.173 4.4	.203 5.16	.089 2.25	.096 2.45

Use with shell size with lightweight back shell	S min inches mm	T max inches mm
E to C: P or S	.110 2.80	.218 5.53
D: P or S	.110 2.80	.218 5.53

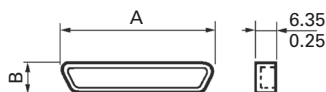
Dust caps

Shell size	ESA/SCC part number (flight models)		Eaton Souriau part number (engineering models)	
	For male connector	For female connector	For male connector	For female connector
E	3401 022 08B	3401 022 07B	70508	70513
A	3401 022 10B	3401 022 09B	70509	70514
B	3401 022 12B	3401 022 11B	70510	70515
C	3401 022 14B	3401 022 13B	70511	70516
D	3401 022 16B	3401 022 15B	70512	70517



Dimensions

Male connector



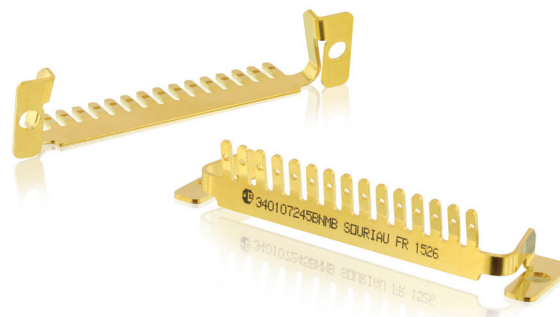
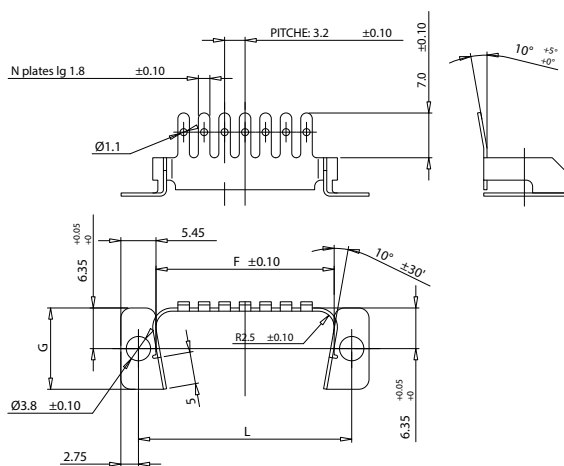
Shell size	A		B	
	inches	mm	inches	mm
E	.756	19.20	.406	10.30
A	1.083	27.50	.406	10.30
B	1.642	41.70	.421	10.70
C	2.287	58.10	.421	10.70
D	2.185	55.50	.528	13.40

Female connector

Shell size	A		B	
	inches	mm	inches	mm
E	.701	17.80	.354	9.00
A	1.028	26.10	.354	9.00
B	1.567	39.80	.354	9.00
C	2.217	56.30	.354	9.00
D	2.122	53.90	.469	11.90

Backshells

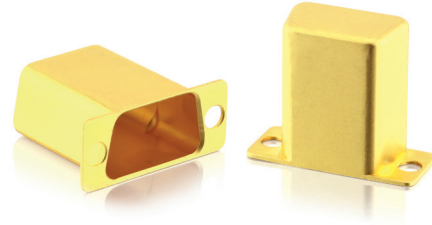
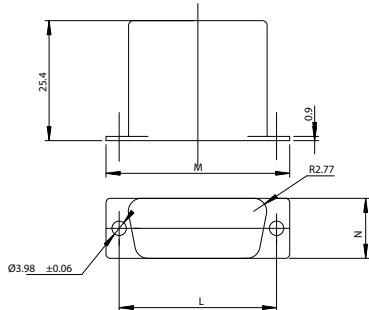
Castellated backshell



Shell size	F		G		L		N		Eaton Souriau part number	
	inches	mm	inches	mm	inches	mm	inches	mm	Silver plating	Gold plating
E	.771	19.60	.500	12.70	.984	24.99	.197	5.00	DE 8949 XH NMS	DE 8949 XH NMB
A	1.096	27.85	.500	12.70	1.311	33.32	.276	7.00	DA 8949 XH NMS	DA 8949 XH NMB
B	1.634	41.50	.500	12.70	1.852	47.04	.433	11.00	DB 8949 XH NMS	DB 8949 XH NMB
C	2.287	58.10	.500	12.70	2.500	63.50	.630	16.00	DC 8949 XH NMS	DC 8949 XH NMB
D	2.195	55.75	.606	15.40	2.406	61.11	.591	15.00	DD 8949 XH NMS	DD 8949 XH NMB

Backshells

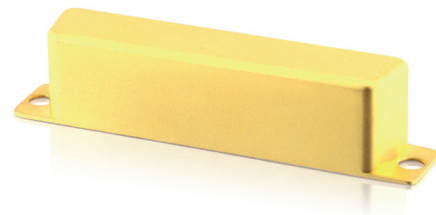
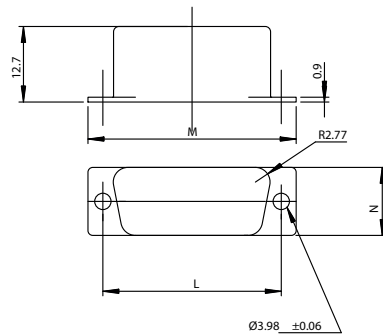
Lightweight shorting can



4

Shell size	M		N		L		ESA/SCC part number	Eaton Souriau part number
	inches ± 0.015	mm ± 0.38	inches ± 0.004	mm ± 0.14	inches ± 0.009	mm ± 0.25		
E	1.203	30.56	.500	12.70	.983	24.99	3401 072 10B NMB	DE 8949 301 NMB
A	1.531	38.89	.500	12.70	1.311	33.32	3401 072 11B NMB	DA 8949 301 NMB
B	2.078	52.78	.500	12.70	1.852	47.04	3401 072 12B NMB	DB 8949 301 NMB
C	2.718	69.04	.500	12.70	2.500	63.50	3401 072 13B NMB	DC 8949 301 NMB
D	2.625	66.67	.609	15.47	2.406	61.11	3401 072 14B NMB	DD 8949 301 NMB

Lightweight extra-shortening can

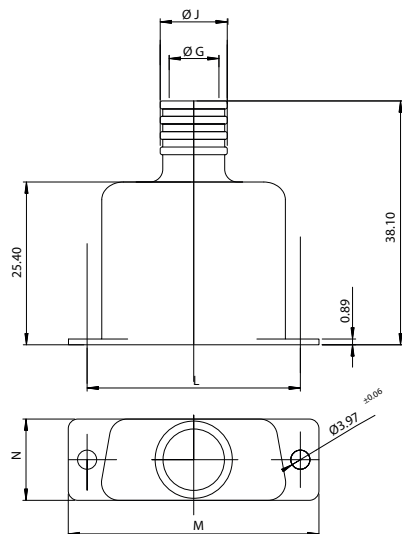


Shell size	M		N		L		ESA/SCC part number	Eaton Souriau part number
	inches ± 0.015	mm ± 0.38	inches ± 0.015	mm ± 0.38	inches ± 0.009	mm ± 0.25		
E	1.203	30.56	.500	12.70	.984	24.99	3401 072 61B NMB	DE 8949 305 NMB
A	.1531	38.89	.500	12.70	1.312	33.32	3401 072 62B NMB	DA 8949 305 NMB
B	2.078	52.78	.500	12.70	1.852	47.04	3401 072 63B NMB	DB 8949 305 NMB
C	2.718	69.04	.500	12.70	2.500	63.50	3401 072 64B NMB	DC 8949 305 NMB
D	2.625	66.67	.609	15.46	2.406	61.11	3401 072 65B NMB	DD 8949 305 NMB

Backshells

Lightweight shielded backshell - straight cable outlet

4

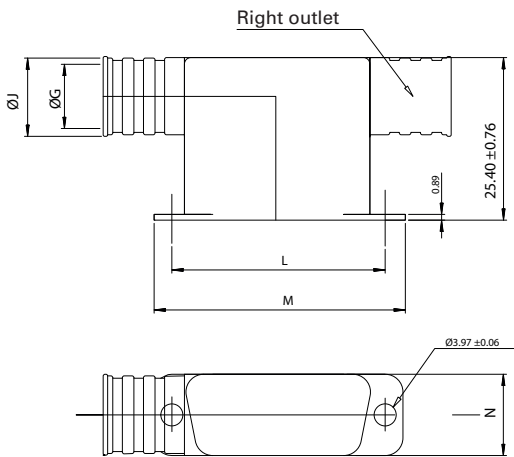


Shell size	ØG		J		M		N		L	
	inches ±0,009	mm ±0,25	inches ±0,015	mm ±0,38	inches ±0,012	mm ±0,36	inches ±0,015	mm ±0,38	inches ±0,004	mm ±0,13
E	.270	6.85	.350	8.89	1.203	30.56	.500	12.70	.984	24.99
A	.395	10.03	.475	12.06	1.531	38.89	.500	12.70	.1312	33.32
B	.420	10.66	.500	12.70	2.078	52.78	.500	12.70	1.852	47.04
C	.420	10.66	.500	12.70	2.718	69.04	.500	12.70	2.500	63.50
D	.529	13.43	.609	15.46	2.625	66.67	.609	15.47	2.406	61.11

Shell size	ESA/SCC part number	Eaton Souriau part number
E	3401 072 35B NMB	DE 8949 001 NMB
A	3401 072 36B NMB	DA 8949 001 NMB
B	3401 072 37B NMB	DB 8949 001 NMB
C	3401 072 38B NMB	DC 8949 001 NMB
D	3401 072 39B NMB	DD 8949 001 NMB

Backshells

Light shielded backshell - 90° longitudinal cable outlet



4

Shell size	ØG		J		M		N		L	
	inches ±0.009	mm ±0.25	inches ±0.015	mm ±0.38	inches ±0.012	mm ±0.36	inches ±0.015	mm ±0.38	inches ±0.004	mm ±0.13
E	.270	6.85	.350	8.89	1.203	30.56	.500	12.70	.984	24.99
A	.395	10.03	.475	12.06	1.531	38.89	.500	12.70	.1312	33.32
B	.420	10.66	.500	12.70	2.078	52.78	.500	12.70	1.852	47.04
C	.420	10.66	.500	12.70	2.718	69.04	.500	12.70	2.500	63.50
D	.529	13.43	.609	15.46	2.625	66.67	.609	15.47	2.406	61.11

Right outlet

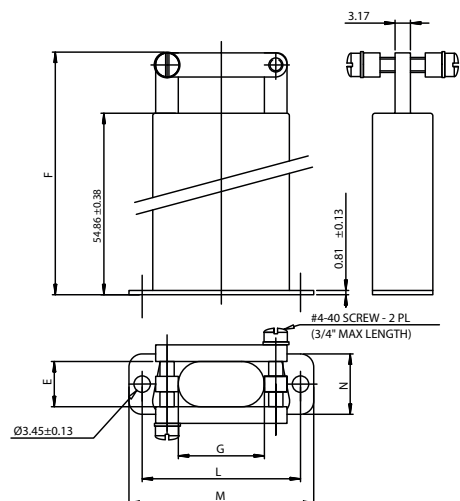
Shell size	ESA/SCC part number	Eaton Souriau part number
E	3401 072 25B NMB	DE 8949 102K NMB
A	3401 072 26B NMB	DA 8949 102E NMB
B	3401 072 27B NMB	DB 8949 102F NMB
C	3401 072 28B NMB	DC 8949 102F NMB
D	3401 072 29B NMB	DD 8949 102H NMB

Left outlet

Shell size	ESA/SCC part number	Eaton Souriau part number
E	3401 072 30B NMB	DE 8949 101K NMB
A	3401 072 31B NMB	DA 8949 101E NMB
B	3401 072 32B NMB	DB 8949 101F NMB
C	3401 072 33B NMB	DC 8949 101F NMB
D	3401 072 34B NMB	DD 8949 101H NMB

Backshells

Lightweight design with saddle clamps for strain relief

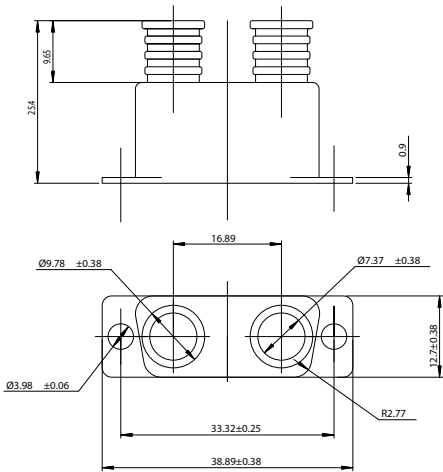


Shell size	E		F		G		M		N		L	
	inches ±0.015	mm ±0.38	inches ±0.024	mm ±0.60	inches ±0.015	mm ±0.38	inches ±0.015	mm ±0.38	inches ±0.004	mm ±0.14	inches ±0.009	mm ±0.25
E	.375	9.52	2.660	67.56	.350	8.89	1.203	30.56	.514	13.05	.984	24.99
A	.375	9.52	2.660	67.56	.475	12.06	1.531	38.89	.514	13.05	1.312	33.32
B	.375	9.52	2.723	69.16	.500	12.7	2.078	52.78	.514	13.05	1.852	47.04
C	.375	9.52	2.723	69.16	.500	12.7	2.718	69.04	.514	13.05	2.500	63.5
D	.468	11.88	2.723	69.16	.609	15.46	2.625	66.67	.623	15.82	2.406	61.11

Shell size	ESA/SCC part number	Eaton Souriau part number
E	3401 072 05B NMB	DE 8949 014 NMB
A	3401 072 06B NMB	DE 8949 014 NMB
B	3401 072 07B NMB	DE 8949 014 NMB
C	3401 072 08B NMB	DE 8949 014 NMB
D	3401 072 09B NMB	DE 8949 014 NMB

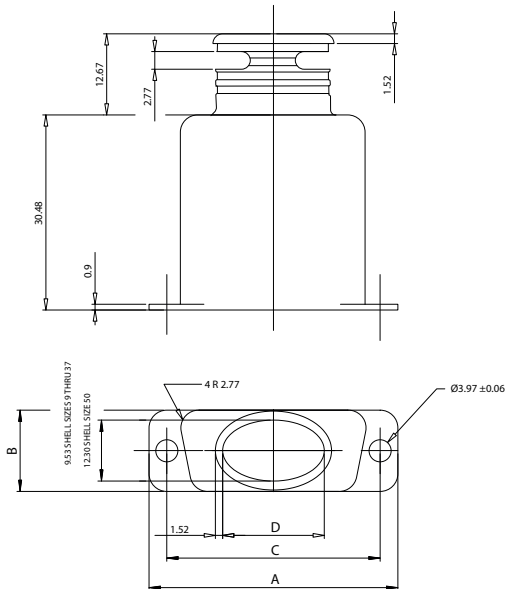
Backshells

Lightweight backshell dual entry band termination - 15 pin



Shell size	ESA/SCC part number	Eaton Souriau part number
A	3401 072 40B NMB	DA 8949 020 NMB

Straight lightweight backshell ultra elliptical band-termination

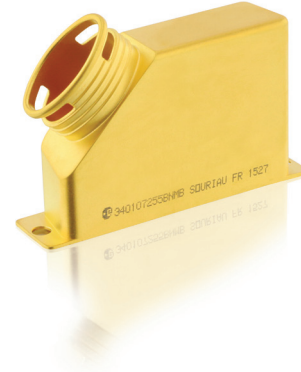
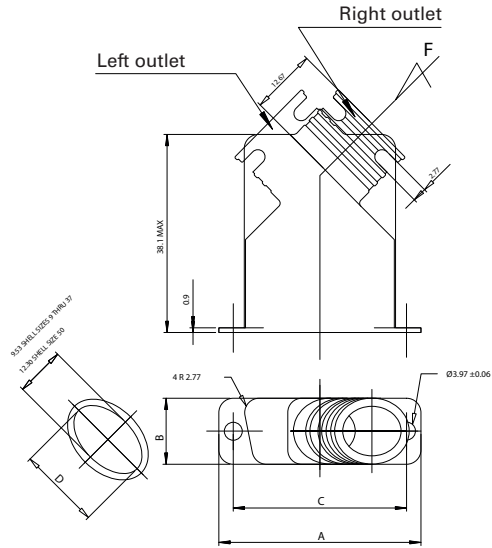


Shell size	A		B		C		D		ESA/SCC part number	Eaton Souriau part number
	inches ±0.015	mm ±0.38	inches ±0.015	mm ±0.38	inches ±0.004	mm ±0.13	inches ±0.015	mm ±0.38		
E	1.203	30.56	.500	12.70	.984	24.99	.500	12.70	3401 072 46B NMB	DE 8949 009A-1 NMB
A	.1531	38.89	.500	12.70	1.312	33.32	.625	15.87	3401 072 47B NMB	DA 8949 009B-1 NMB
B	2.078	52.78	.500	12.70	1.852	47.04	.750	19.05	3401 072 48B NMB	DB 8949 009C-1 NMB
C	2.718	69.04	.500	12.70	2.500	63.50	1.000	25.40	3401 072 49B NMB	DC 8949 009E-1 NMB
D	2.625	66.67	.609	15.46	2.406	61.11	.875	22.22	3401 072 50B NMB	DD 8949 009D-1 NMB

Backshells

45° lightweight backshell ultra elliptical band-termination

4



Shell size	A		B		C		D	
	inches ±0.015	mm ±0.38	inches ±0.015	mm ±0.38	inches ±0.004	mm ±0.13	inches ±0.015	mm ±0.38
E	1.203	30.56	.500	12.7	.984	24.99	.500	12.70
A	1.531	38.89	.500	12.7	1.312	33.32	.625	15.87
B	2.078	52.78	.500	12.70	1.852	47.04	.750	19.05
C	2.718	69.04	.500	12.70	2.500	63.5	1.000	25.40
D	2.625	66.67	.609	15.46	2.406	61.11	.875	22.22

Right outlet

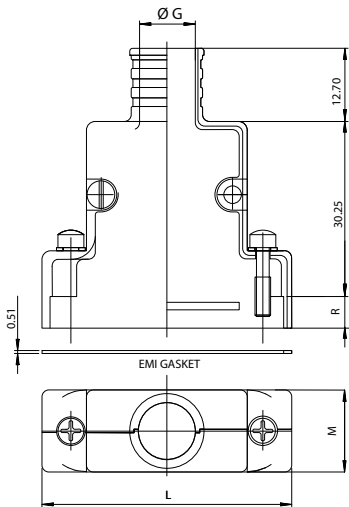
Shell size	ESA/SCC part number	Eaton Souriau part number
E	3401 072 51B NMB	DE 8949 107A-1 NMB
A	3401 072 52B NMB	DA 8949 107B-1 NMB
B	3401 072 53B NMB	DB 8949 107C-1 NMB
C	3401 072 54B NMB	DC 8949 107E-1 NMB
D	3401 072 55B NMB	DD 8949 107D-1 NMB

Left outlet

Shell size	ESA/SCC part number	Eaton Souriau part number
E	3401 072 56B NMB	DE 8949 108A-1 NMB
A	3401 072 57B NMB	DA 8949 108B-1 NMB
B	3401 072 58B NMB	DB 8949 108C-1 NMB
C	3401 072 59B NMB	DC 8949 108E-1 NMB
D	3401 072 60B NMB	DD 8949 108D-1 NMB

Backshells

EMI shielded backshell - straight cable outlet

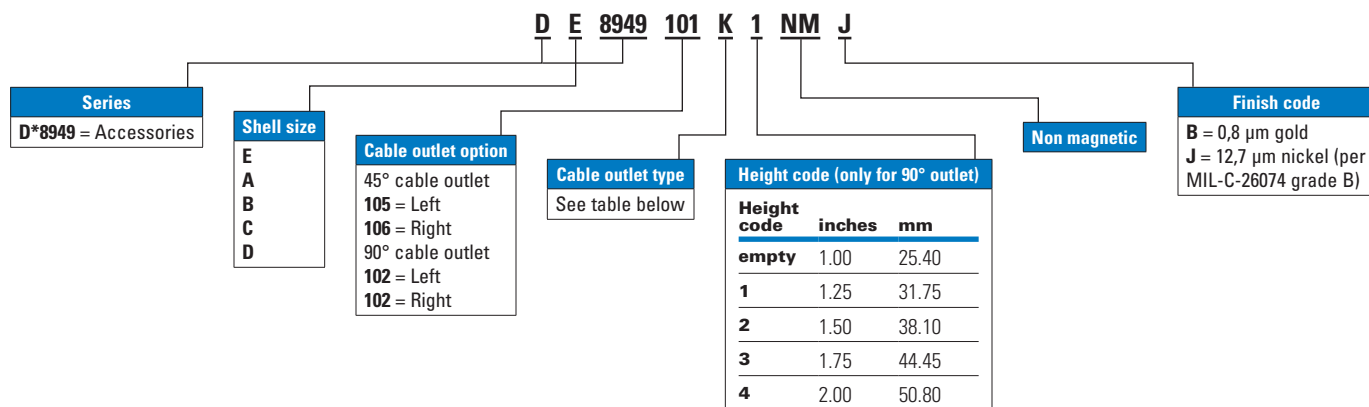


	Shell size	ØG		M		L		R		ESA/SCC part number	Eaton Souriau part number
		inches ±0,009	mm ±0,25	inches ±0,009	mm ±0,25	inches ±0,009	mm ±0,25	inches ±0,004	mm ±0,13		
Front mounting	E	.265	6.73	.629	15.98	1.379	35.03	.305	7.74	3401 072 15B NMB	DE 8949 405 1NMB
	A	.390	9.90	.629	15.98	1.707	43.36	.305	7.74	3401 072 16B NMB	DA 8949 405 1NMB
	B	.415	10.54	.629	15.98	2.254	57.25	.305	7.74	3401 072 17B NMB	DB 8949 405 1NMB
	C	.415	10.54	.629	15.98	2.895	73.53	.305	7.74	3401 072 18B NMB	DC 8949 405 1NMB
	D	.525	13.33	.740	18.79	2.801	71.14	.305	7.74	3401 072 19B NMB	DD 8949 405 1NMB
Rear mounting	E	.265	6.73	.629	15.98	1.379	35.03	.245	6.32	3401 072 20B NMB	DE 8949 405 2NMB
	A	.390	9.90	.629	15.98	1.707	43.36	.245	6.32	3401 072 21B NMB	DA 8949 405 2NMB
	B	.415	10.54	.629	15.98	2.254	57.25	.245	6.32	3401 072 22B NMB	DB 8949 405 2NMB
	C	.415	10.54	.629	15.98	2.895	73.53	.245	6.32	3401 072 23B NMB	DC 8949 405 2NMB
	D	.525	13.33	.740	18.79	2.801	71.14	.245	6.32	3401 072 24B NMB	DD 8949 405 2NMB

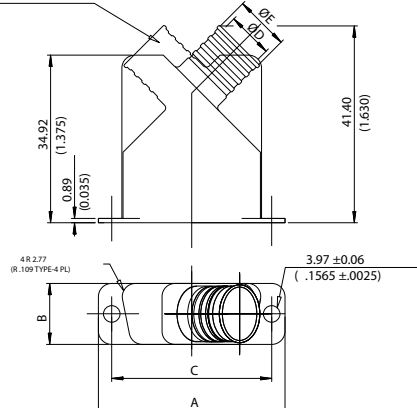
Backshells

Lightweight shielded backshells - 45° & 90° longitudinal cable outlets

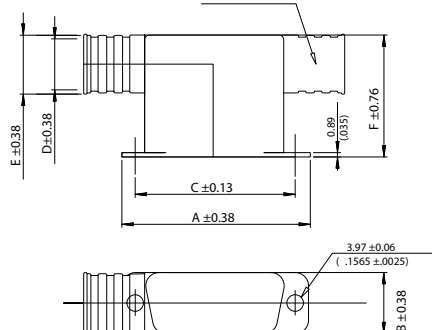
4



Left outlet (105)



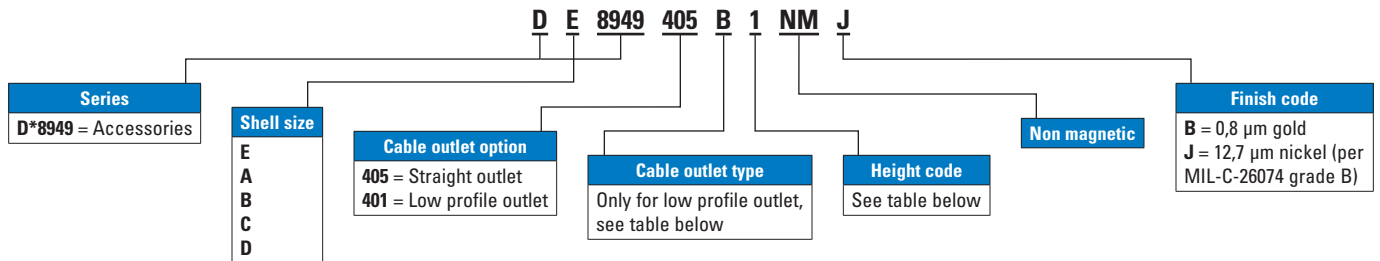
Right outlet (102)



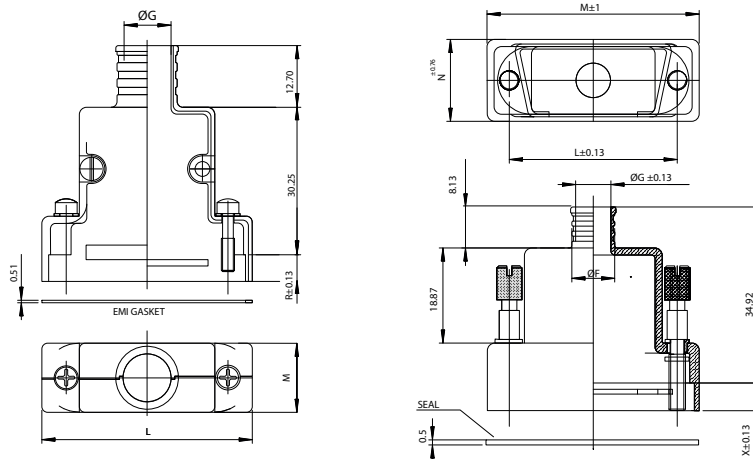
Shell size	Standard cable outlet size										Outlet type	Specific cable outlet size				Outlet type
	A		B		C		ØD		ØE			ØD		ØE		
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm		inches	mm	inches	mm	
E	1.203	30.56	.500	12.7	.984	24.99	.270	6.86	.350	8.89	K	.125	3.17	.205	5.21	A
A	1.531	38.89	.500	12.7	1.312	33.32	.395	10.03	.475	12.06	E	.187	4.75	.267	6.78	B
B	2.078	52.78	.500	12.7	1.852	47.04	.420	10.66	.500	12.7	F	.312	7.92	.392	9.96	D
C	2.718	69.04	.500	12.7	2.500	63.5	.420	10.66	.500	12.7	F	.312	7.92	.392	9.96	D
D	2.625	66.67	.609	15.47	2.406	61.11	.529	13.43	.609	15.46	H	.395	10.03	.475	12.06	E

Backshells

EMI/RFI shielded backshells - straight & low profile outlet banded clamp termination



Height code	Mounting style	inches	mm
1	Front	.305	7.74
2	Rear	.249	6.32
3	Rear	.218	5.53
4	Rear	.187	4.74
5	Rear	.155	3.93



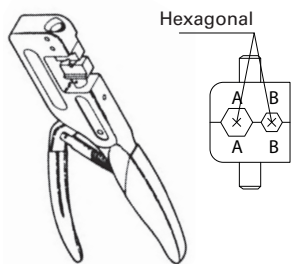
Shell size	Straight cable outlet: 405						Standard cable outlet size			Specific cable outlet size		
	M		L		ØG		ØD		Cable outlet type	ØD		Cable outlet type
	inches	mm	inches	mm	inches	mm	inches	mm		inches	mm	
E	.629	15.98	1.379	35.03	.265	6.73	.190	4.83	B	.220	5.59	C
A	.629	15.98	1.707	43.36	.390	9.9	.190	4.83	B	.275	6.98	E
B	.629	15.98	2.254	57.25	.415	10.54	.260	6.6	D	.285	7.24	F
C	.629	15.98	2.895	73.53	.415	10.54	.260	6.6	D	.350	8.89	G
D	.740	18.79	2.801	71.14	.525	13.33	.350	8.89	G	.490	12.45	H

Shell size	Low profile cable outlet: 401						Standard cable outlet size			Specific cable outlet size		
	M		N		L		ØD		Cable outlet type	ØD		Cable outlet type
	inches	mm	inches	mm	inches	mm	inches	mm		inches	mm	
E	1.366	34.69	.640	16.25	.984	24.99	.190	4.83	B	.220	5.59	C
A	1.694	43.03	.640	16.25	1.312	33.32	.190	4.83	B	.275	6.98	E
B	2.241	56.92	.640	16.25	1.852	47.04	.260	6.6	D	.285	7.24	F
C	2.882	73.2	.640	16.25	2.500	63.5	.260	6.6	D	.350	8.89	G
D	2.778	70.56	.750	19.05	2.406	61.11	.350	8.89	G	.490	12.45	H

Crimping tools

	Contact #20 Wire AWG 20/24 & 26/28*		Wire AWG 18/20		Contact #22 Wire AWG 22/26		Power contact #8	
	ESA Part number	Souriau Part number	ESA Part number	Souriau Part number	ESA Part number	Souriau Part number	DMC Part number	Souriau Part number
Crimping tool	M 22520/2-01	8476-01	M 22520/1-01	8365	M 22520/2-01	8476-01	M300BT	8476-200
Locator	M 22520/2-08 * Mark n°6	8476-08	TP 1003	8949-1808	M 22520/2-09 (pin) M 22520/2-06 (socket)	8476-09 (pin) 8476-06 (socket)	TH558 (pin)	8949-1745 (pin)

M 22520/5-01 plier

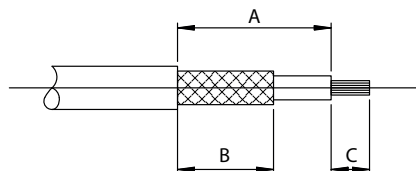


Wire	Crimp tool	Jaws	Hex
RG 178 B/U RG 196 A/U KX 21 A	M22520/5-01	M22520/5-03	B
RG 179 B/U RG 316 U RG 188 A/U KX 22 A - 50 CIS	M22520/5-01	M22520/5-03	A
RG 180 B/U	M22520/5-01	M22520/5-43	B

Stripping

Wire type			Stripping dimensions						ESA/SCC part number		
MIL-C-17	NFC 93550	ESA 3902 001	A $\pm 0,25$ inches	mm	B $\pm 0,25$ inches	mm	C $\pm 0,25$ inches	mm	Contact type	Solder coaxial contact	Crimp coaxial contact
RG 178 B/U RG 196 A/U	KX 21 A		.312	7.92	.250	6.35	.078	1.98	Male	3401 004 01B	3401 004 11B
									Female	3401 004 02B	3401 004 12B
			.375	9.52	.234	5.94	.062	1.57	Male	3401 004 03B	3401 004 13B
									Female	3401 004 04B	3401 004 14B
RG 179 B/U RG 316 U RG 188 A/U	KX 22 A	50 CIS	.312	7.92	.250	6.35	.078	1.98	Male	3401 004 05B	3401 004 15B
									Female	3401 004 06B	3401 004 16B
			.375	9.52	.234	5.94	.062	1.57	Male	3401 004 07B	3401 004 17B
									Female	3401 004 08B	3401 004 18B
RG 180 B/U			.375	9.52	.312	7.92	.076	1.92	Male	3401 004 09B	3401 004 19B
									Female	3401 004 10B	3401 004 20B

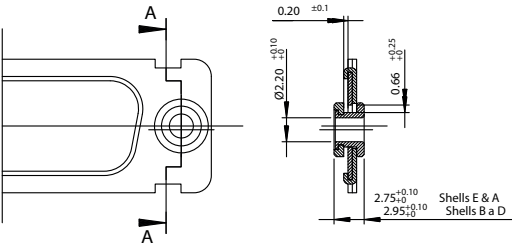
Stripping dimensions



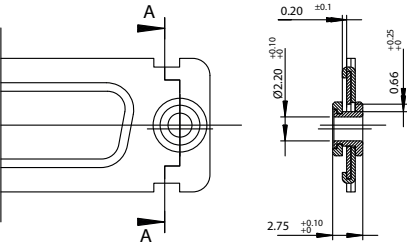
Mounting

Float mounting 3401 001, 3401 002, D*MF, 8631 & 8635F - not available for savers connectors

Male connector

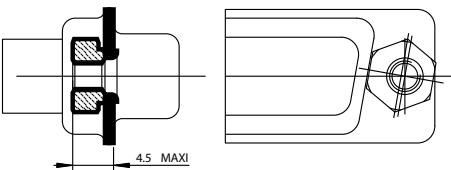


Female connector



Mounting with clinch nuts (O & L, D*M, 8630 & 8635)

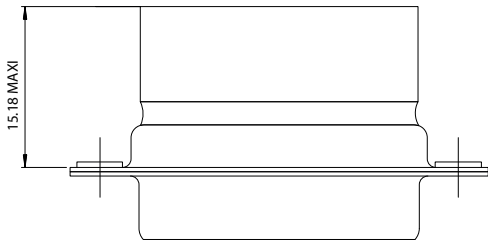
E for 3401001 and 3401002 series



Mounting with grommet (8630 & 8635)

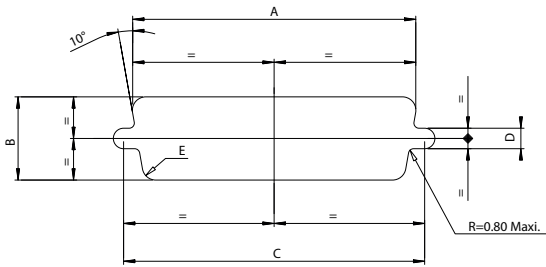
Code G for 3401002 series

Code 601, 604 for 8630 & 8635 space grade version

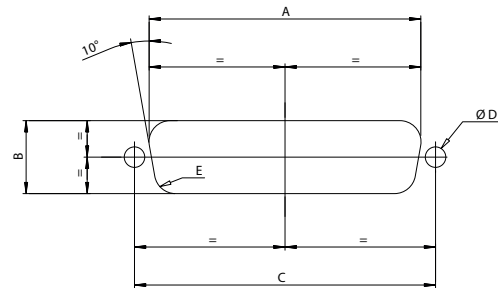


Panel cut-outs

Cutout for mounting from front or rear of panel

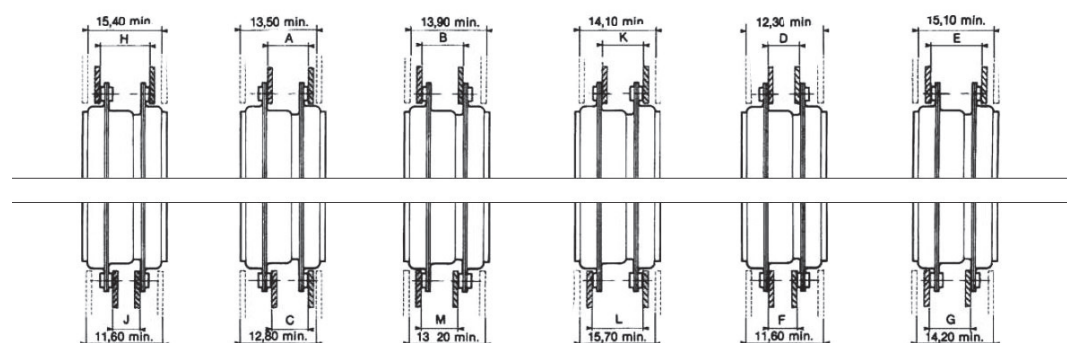


Cutout for mounting from rear of panel only



Shell size	Type of mounting	Mounting position	A		B		C		D		E	
			inches ±0.004	mm ±0.1	inches ±0.004	mm ±0.1	inches ±0.004	mm ±0.1	inches ±0.002	mm ±0.05	inches ±0.004	mm ±0.1
E	Rigid	Front	.874	22.20	.512	13.00	.984	24.99	.126	3.20	.083	2.10
		Rear	.807	20.50	.449	11.40	.984	24.99	.126	3.20	.130	3.30
	Float	Front	.906	23.00	.543	13.80	.984	24.99	.087	2.20	.083	2.10
		Rear	.839	21.30	.480	12.20	.984	24.99	.087	2.20	.130	3.30
A	Rigid	Front	1.201	30.50	.512	13.00	1.312	33.32	.126	3.20	.083	2.10
		Rear	1.134	28.80	.449	11.40	1.312	33.32	.126	3.20	.130	3.30
	Float	Front	1.232	31.30	.543	13.80	1.312	33.32	.087	2.20	.083	2.10
		Rear	1.165	29.60	.480	12.20	1.307	33.20	.087	2.20	.130	3.30
B	Rigid	Front	1.744	44.30	.512	13.00	1.852	47.04	.126	3.20	.083	2.10
		Rear	1.673	42.50	.449	11.40	1.852	47.04	.126	3.20	.130	3.30
	Float	Front	1.776	45.10	.543	13.80	1.852	47.04	.087	2.20	.083	2.10
		Rear	1.705	43.30	.480	12.20	1.852	47.04	.087	2.20	.130	3.30
C	Rigid	Front	2.390	60.70	.512	13.00	2.500	63.50	.126	3.20	.083	2.10
		Rear	2.327	59.10	.449	11.40	2.500	63.50	.126	3.20	.130	3.30
	Float	Front	2.421	61.50	.543	13.80	2.500	63.50	.087	2.20	.083	2.10
		Rear	2.354	59.80	.480	12.20	2.500	63.50	.087	2.20	.130	3.30
D	Rigid	Front	2.354	58.30	.480	12.20	2.500	63.50	.126	3.20	.130	3.30
		Rear	2.217	56.30	.555	14.10	2.406	61.11	.126	3.20	.130	3.30
	Float	Front	2.331	59.20	.654	16.60	2.406	61.11	.087	2.20	.083	2.10
		Rear	2.252	57.20	.567	14.40	2.406	61.11	.087	2.20	.130	3.30

Panel mounting

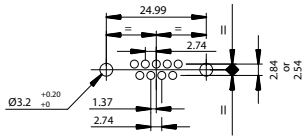
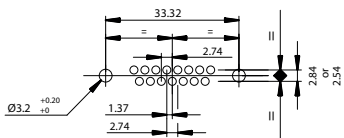
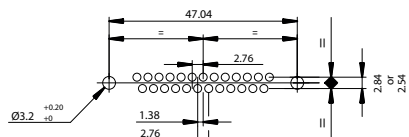
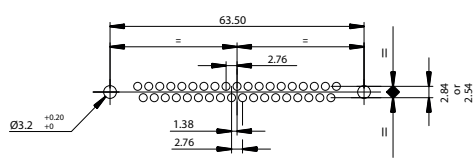
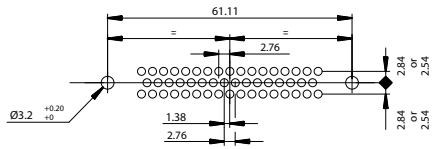


Shell size	$A^{+0.6}_{-0}$		$B^{+0.6}_{-0}$		$C^{+0.6}_{-0}$		$D^{+0.6}_{-0}$		$E^{+0.6}_{-0}$		$F^{+0.6}_{-0}$	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E	.301	7.65	.301	7.65	.270	6.85	.254	6.45	.348	8.85	.222	5.65
A	.301	7.65	.301	7.65	.270	6.85	.254	6.45	.348	8.85	.222	5.65
B	.297	7.55	.297	7.55	.266	6.75	.250	6.35	.348	8.85	.219	5.55
C	.297	7.55	.313	7.95	.266	6.75	.250	6.35	.360	9.15	.219	5.55
D	.297	7.55	.313	7.95	.266	6.75	.250	6.35	.360	9.15	.219	5.55

Shell size	$G^{+0.6}_{-0}$		$H^{+0.6}_{-0}$		$J^{+0.6}_{-0}$		$K^{+0.6}_{-0}$		$L^{+0.6}_{-0}$		$M^{+0.6}_{-0}$	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
E	.325	8.25	.372	9.45	.222	5.65	.325	8.25	.372	9.45	.270	6.85
A	.325	8.25	.372	9.45	.222	5.65	.325	8.25	.372	9.45	.270	6.85
B	.321	8.15	.368	9.35	.219	5.55	.321	8.15	.368	9.35	.266	6.75
C	.329	8.35	.376	9.55	.219	5.55	.321	8.15	.384	9.75	.281	7.15
D	.329	8.35	.376	9.55	.219	5.55	.321	8.15	.384	9.75	.281	7.15

Standard density

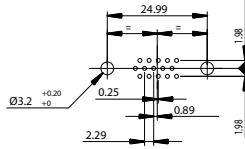
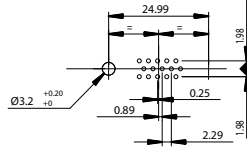
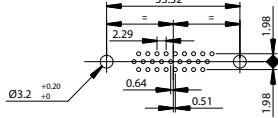
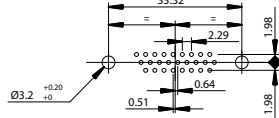
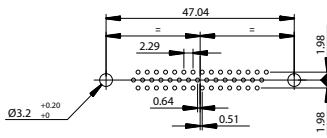
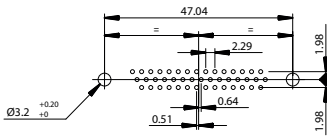
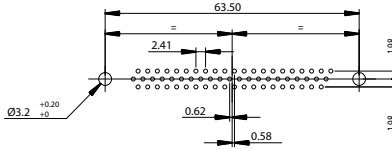
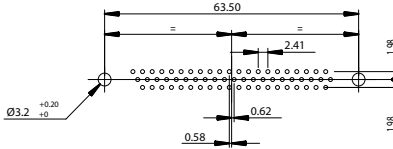
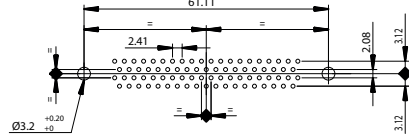
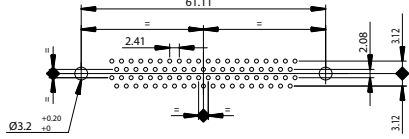
Viewed from front face of male insulator (dimensions in mm)

Layout according to	Number of contacts	Drilling dimensions
MS-18273-1	9 contacts shell size E	
MS-18274-1	15 contacts shell size A	
MS-18275-1	25 contacts shell size B	
MS-18276-1	37 contacts shell size C	
MS-18277-1	50 contacts shell size D	

Suggest 0.89 Ø hole for contact termination positions, for 0.50 / 0.65 Ø PC tail.
Suggest 1.08 Ø hole for contact termination positions, for 0.69 / 0.84 Ø PC tail.

high density

Viewed from front face of male insulator (dimensions in mm)

Layout according to	Number of contacts	Drilling dimensions Male connector	Female connector
MS-18273-1	9 contacts shell size E		
MS-18274-1	15 contacts shell size A		
MS-18275-1	25 contacts shell size B		
MS-18276-1	37 contacts shell size C		
MS-18277-1	50 contacts shell size D		

Suggest 0,89 Ø hole for contact termination positions, for 0.50 / 0.65 Ø PC tail.
Suggest 1,08 Ø hole for contact termination positions, for 0.69 / 0.84 Ø PC tail.



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