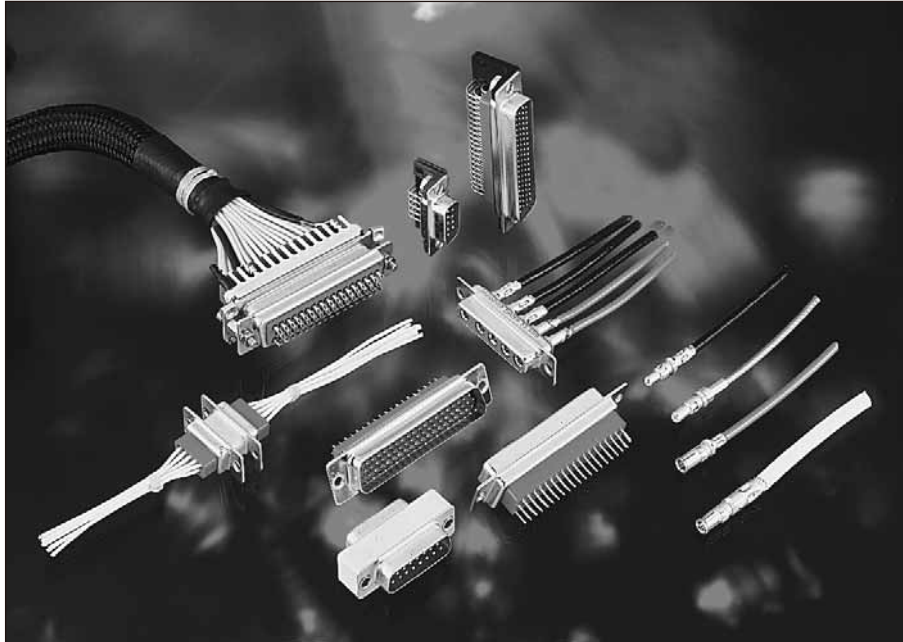




# Connectors



## Section

### I

# Non-magnetic D-Sub Connectors



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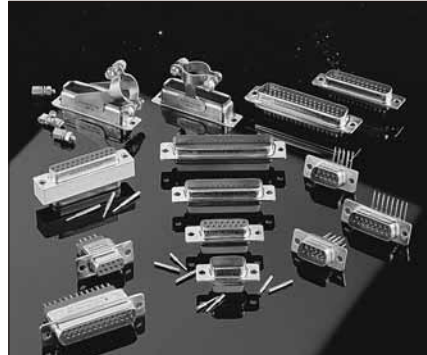
## Connectors

### Applications

Satellite  
 Launcher  
 Space station  
 Shuttle hardware  
 Probe

### Standards

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



### Description

D-Sub product lines conform to the MIL-DTL-24308 standard and are qualified by ESA according to ESA/SCC 3401. These products are also qualified by NASA according to GSFC.

A number of signal, power, high density and coax layouts are available, using non-magnetic shell materials.

## Cross reference table for ESA/SCC/SOURIAU/GSFC

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

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

(\*\*) Pending ESA Qualification.

## Quality Assurance Testing

### • Qualification

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

### • Production control

Visual (100%)

Dimensional (by sampling)

Insulation resistance (100%)

Dielectric withstanding voltage (100%)

Contact retention (100%)

Female contact capability (100%)

### • Final production tests

Visual (100%)

Dimensional (by sampling)

Intermeatability

### • Lot acceptance tests

Two levels are proposed according to the ESA/SC specification 3401 CHART V.

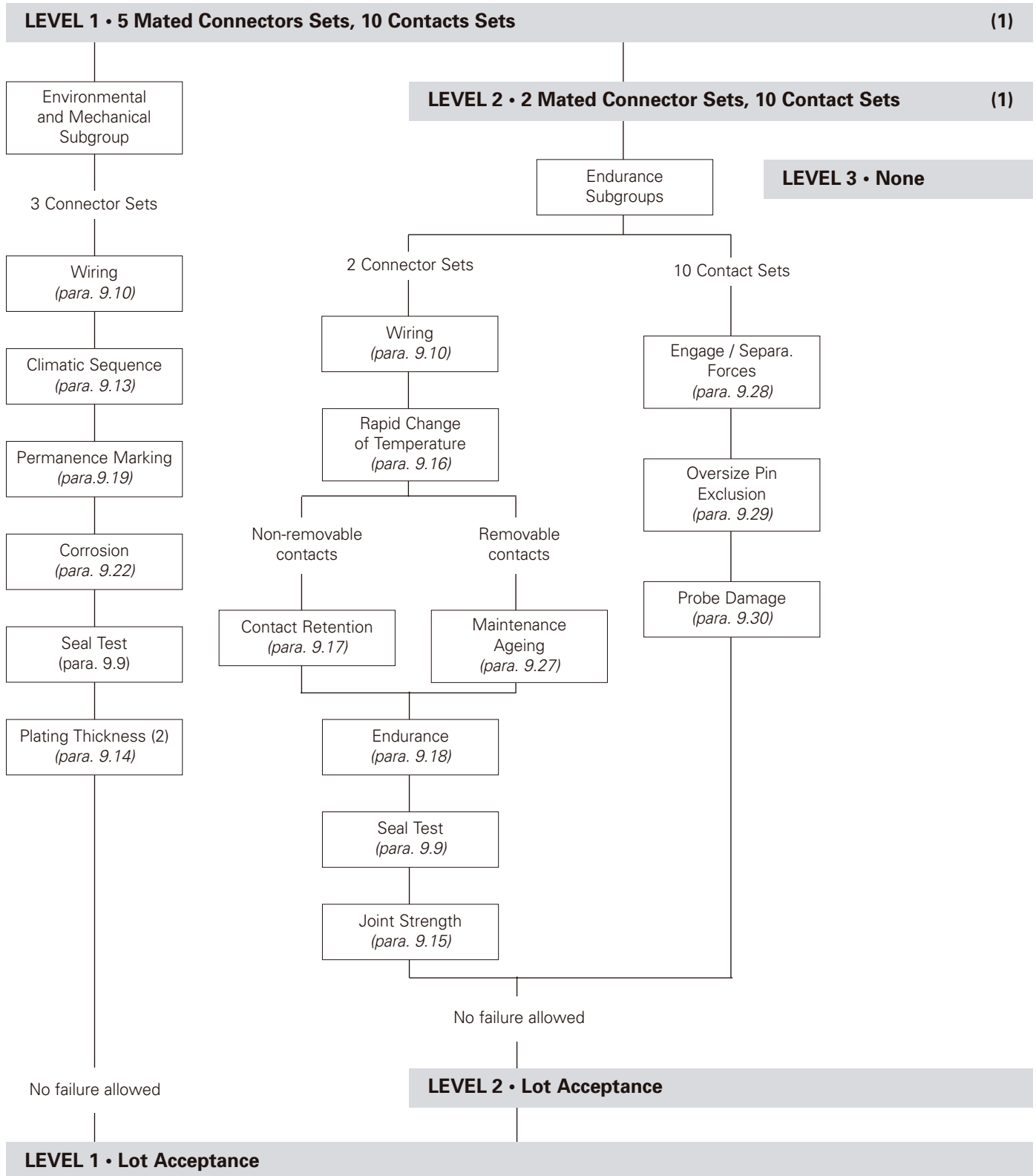
Lot acceptance level shall be specified in the purchase order.

LAT 1 \_\_\_\_\_ Environmental and mechanical sub-group

└── LAT2 \_\_\_\_\_ Endurance sub-group



## CHART V - Lot Acceptance Tests



### 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.



## Materials & Finishes

Component	Material	Plating
Shells	Brass	1,27 micron gold to meet MIL/NASA - 0,7 micron gold ESA
Insulators	Diallyphtalate (according to MIL-M-14 class SGDF)	<b>Outgassing</b> : TML : 1% according to CVCM : 0,1% ECSS-Q-70-02A
Contacts <b>3401/005 /040 &amp; /021</b> <b>3401/004</b>	Copper alloy	<ul style="list-style-type: none"> <li>• <b>1,27</b> microns gold mini over 1 micron copper mini</li> <li>• <b>2,54</b> microns gold mini over 1 micron copper mini</li> </ul>
Accessories	Brass	<ul style="list-style-type: none"> <li>• <b>0,7</b> micron gold mini over 1 micron copper mini</li> </ul>

## Electrical characteristics

Characteristics	Symbol	Rating	Unit
Working voltage sea level (/50 Hz) <ul style="list-style-type: none"> <li>• # 20 contacts</li> <li>• # 22 contacts</li> <li>• Power and straight coaxial contacts</li> <li>• 90° coaxial contacts</li> <li>• Twin axe</li> </ul>	$U_R$	300 250 250 200	Vrms
Dielectric Withstanding Voltage (at sea level / 33000 m) <ul style="list-style-type: none"> <li>• # 20 and # 22 contacts</li> <li>• Power and Straight coaxial contacts</li> <li>• 90° coaxial contacts</li> <li>• 90° Twin ax</li> </ul>		1250 / 200 1000 / 100 800 / 100	Vrms
Rated current <ul style="list-style-type: none"> <li>• # 20 and coaxial center contacts</li> <li>• # 22 PCB contact</li> <li>• # 20 crimp contact AWG 26/28</li> <li>• # 22 crimp contact</li> </ul>	$I_R$	7,5 3 3 5	A
• Power contacts		Wire size # 8 40 A   # 10 30 A   # 12 20 A   # 14 15 A   # 16 10 A	
Contact resistance (low level current) <ul style="list-style-type: none"> <li>• # 20</li> <li>• # 22</li> <li>• Contact coaxial center and outer contact</li> <li>• Power</li> </ul>	Rcl Max.	6 6 8,5 2,5	mΩ
<ul style="list-style-type: none"> <li>• # 20 (under 10 mA)</li> <li>• # 22 (under 10 mA)</li> </ul>			
Contact resistance (rated current) <ul style="list-style-type: none"> <li>• # 20 (under 7,5 A)</li> <li>• # 22 PCB (under 3,0 A)</li> <li>• # 22 crimp (under 5,0 A)</li> <li>• # 20 crimp AWG 26/28 (under 3 A)</li> <li>• # 20 crimp (under 7,5 A)</li> <li>• Coaxial and power contacts (see rated current charac.)</li> </ul>	Rcr Max.	5 10 5 5 5 7	mΩ

## Environmental characteristics

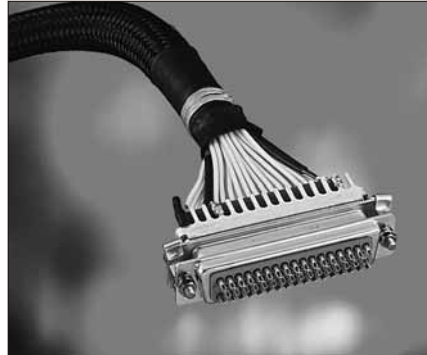
Characteristics	Rating	Unit	ESA/SCC 3401 test method
Operating temperature range	-55 to +125	°C	-
Storage temperature	1000 h/125°C	-	Para. 9.21
Thermal shock	from -55 to +125	°C	IEC 512-6 test 11d
Damp heat	10 cycles 24 h	-	IEC 68-2-30 test Dd
Mechanical endurance	500	cycles	Para. 9.18
Vibrations	20	g	IEC 512-4 test 6d
Shock	50 g with an 11 ms duration pulse	-	IEC 512-4 test 6c
Contact retention	40	N	Para. 9.17
Vacuum test (125°C/24 h)	10 <sup>-6</sup>	Torr	ECSS-Q-70-02A



# ESA/SCC 3401 001 01B

### Applications

Satellite  
 Launcher  
 Space station  
 Shuttle hardware  
 Probe



### Standard density and Non removable contacts

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

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

The connectors are Flight qualified parts.

### Standards

ESA/SCC 3401/001/GSFC/  
 MIL-DTL-24308 class M (QPL)

## Part Number / Ordering information

<b>SCC specification number</b>	<b>3401 001 01 B D B M Y 9W4 P NMB OL3</b>
<b>Type Variant</b>	<b>01</b> : standard density (contact # 20)
<b>B Testing Level</b>	not to be modified
<b>D*M series</b>	
<b>Shell Size</b>	<b>E</b> = 9 cts ; <b>A</b> = 15 cts ; <b>B</b> = 25 cts ; <b>C</b> = 37 cts ; <b>D</b> = 50 cts
<b>Mounting</b>	<b>Without indication</b> : fixed mounting <b>Y</b> : floating mounting <b>E</b> : 4.40 captive nuts
<b>Contact Layout Code</b>	(see page 11)
<b>Contact Type</b>	<b>P</b> : Pin (male) <b>S</b> : Socket (female)
<b>Residual Magnetism Level</b>	<b>NMB</b> : ≤ 200 gammas
<b>Contact Termination Code</b>	

## Contact termination code

Contact terminations are indicated as follows :

Contact termination code for variant 01 (std density)		
Code for Ø 0.63	Code for Ø 0.76	Contact type
<b>Without indication</b>		Solder buckets
<b>OL3</b>	<b>Z</b>	Straight spills
<b>1A0N</b>	<b>2A0N</b>	90° spills, without bracket, 2,54 mm pitch between row
<b>1B0N</b>	<b>2B0N</b>	90° spills, without bracket, 2,84 mm pitch between row
<b>1A7N</b>	<b>2A7N</b>	90° spills, with bracket, with UNC 4-40 clinch nuts and 2,54 mm pitch between row
<b>1B7N</b>	<b>2B7N</b>	90° spills, with bracket, with UNC 4-40 clinch nuts and 2,84 mm pitch between row
<b>1A9N</b>	<b>2A9N</b>	90° spills, with bracket, with M3 clinch nuts and 2,54 mm pitch between row
<b>1B9N</b>	<b>2B9N</b>	90° spills, with bracket, with M3 clinch nuts and 2,84 mm pitch between row
<b>F179A</b>		Wire wrap termination 3 wraps

Note : Mixed layout are not available in 90° spills



## Contact layouts

Contact layouts are indicated by the codes specified hereafter (male insulation front view) :

Shell size	Code	Nb cts		Layout
		# 20	# 8	
E	9	9	0	
	5W1	4	1	
A	15	15	0	
	3W3	0	3	
	3WK3*	0	3	
	7W2	5	2	
	11W1	10	1	
	B	25	25	0
5W5		0	5	
9W4		5	4	
13W3		10	3	

Shell size	Code	Nb cts		Layout
		# 20	# 8	
B	17W2	15	2	
C	37	37	0	
	8W8	0	8	
	17W5	12	5	
	21WA4	17	4	
	25W3	22	3	
	27W2	25	2	
D	50	50	0	
	24W7	17	7	
	36W4	32	4	

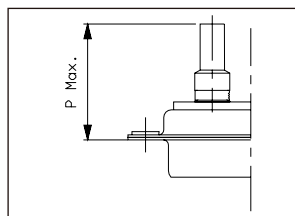
Standard (# 20) contact  
Coaxial or power (# 8) contact

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

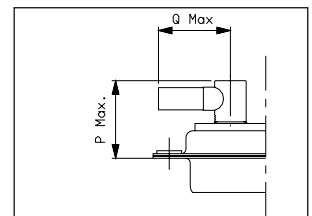
## Contact types

### • Coaxial contacts 3401 004 & 8949 004 NMB

Variants	P1 * Max.	P2 ** Max.
01-02-05-06 11-12-15-16	19,60 .771	19,80 .780
09-10-19-20	22,30 .878	22,50 .886

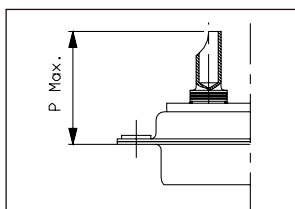


Variants	P1 * Max.	P2 ** Max.	Q Max
03-04-07-08 13-14-17-18	14,30 .563	14,50 .570	12,50 .492

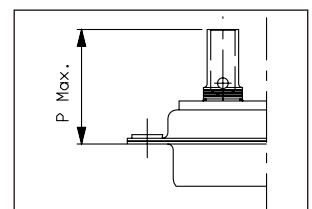


### • Power contacts 3401 040 & 8949 040 NMB

Variants	P1 * Max.	P2 ** Max.
01-02-03 04-05-06	17,70 .697	17,90 .705



Variants	P1 * Max.	P2 ** Max.
07-08-09 10-11-12	19,80 .780	20 .787



(\*) P1 : for male connectors sizes E and A, and for female connectors all sizes.

(\*\*) P2 : for male connectors sizes B, C and D.

**Note : Mixed layout are not available in 90° spills**

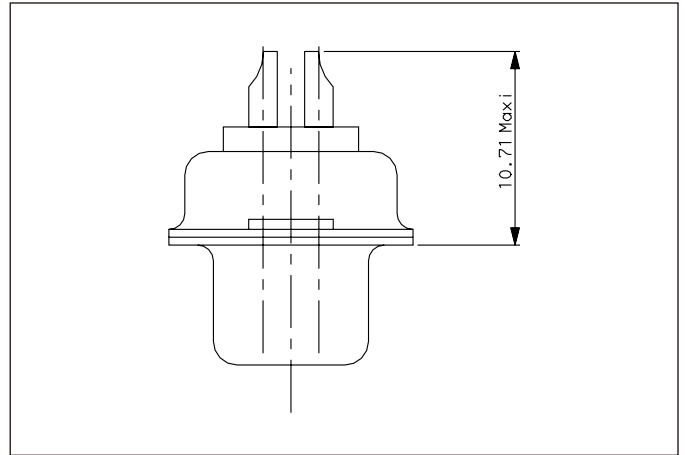
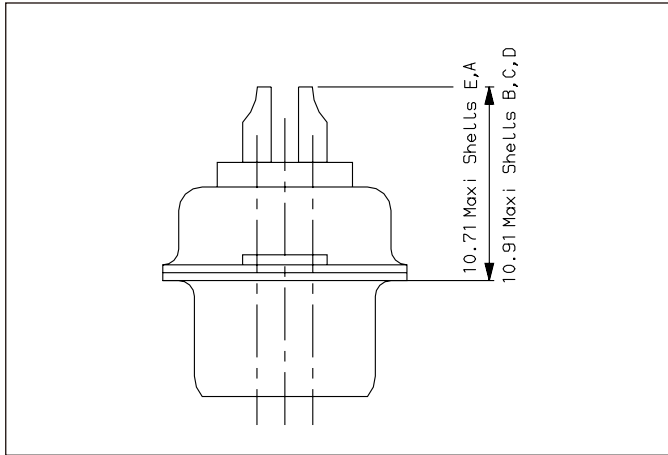


## Dimensions (in mm)

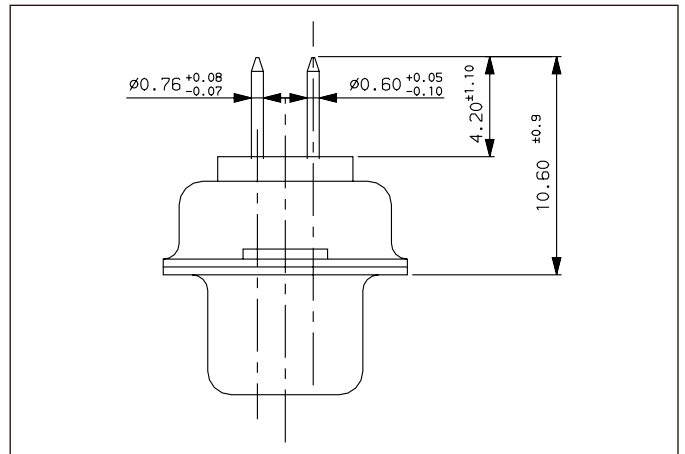
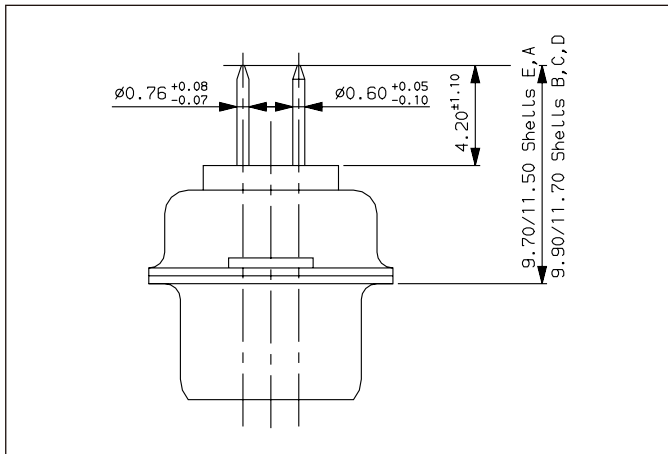
### Male connectors

### Female connectors

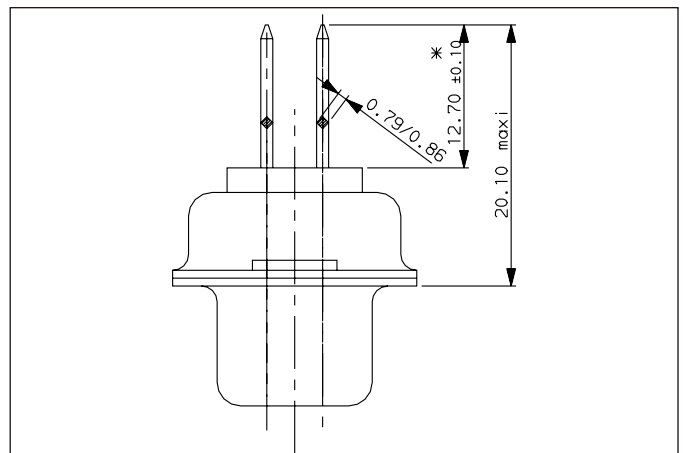
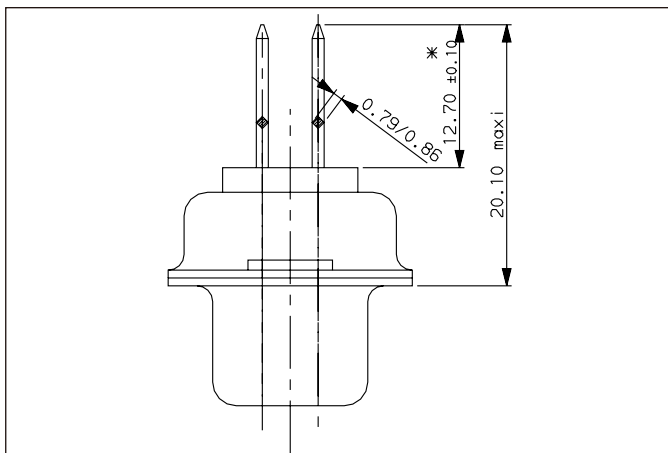
#### Solder Bucket



#### Straight spills (Z / OL3)



#### Wire wrap (F179A)



(\*) The dimension is the length of the square part of the contact.

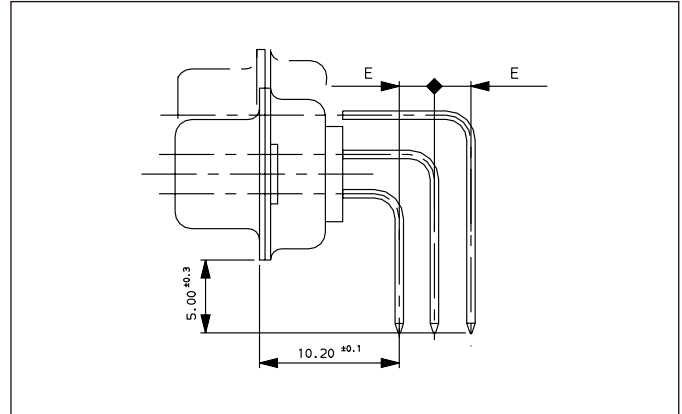
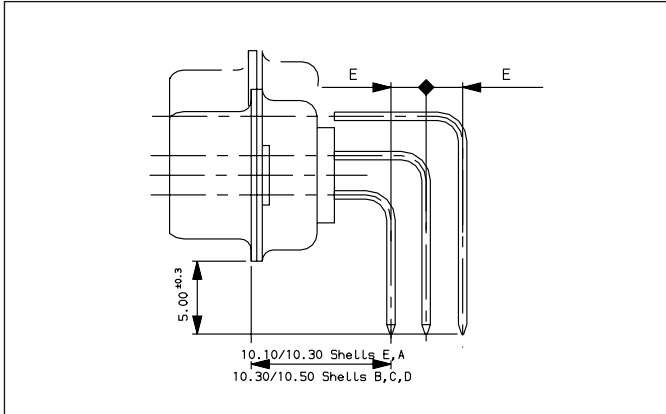




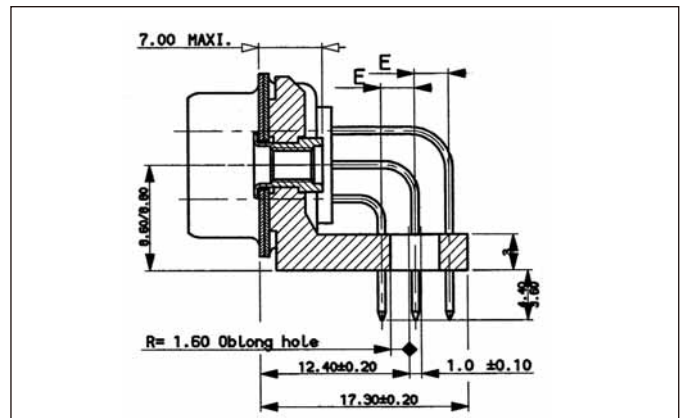
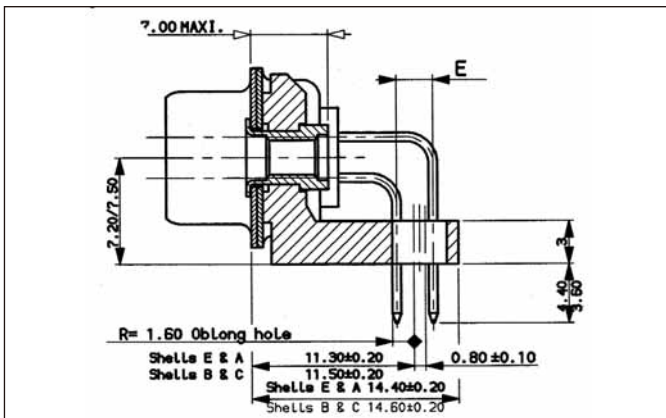
## Male connectors

## Female connectors

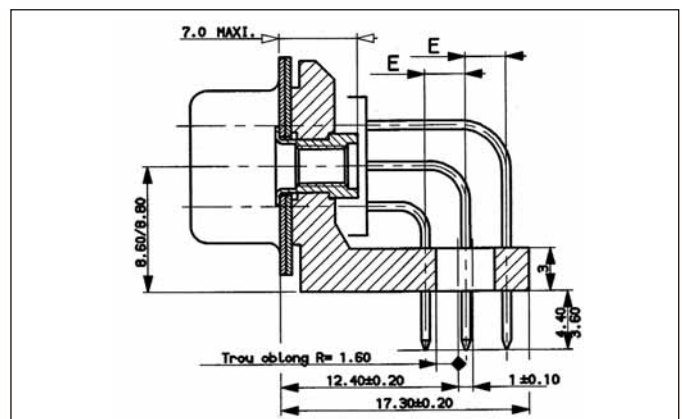
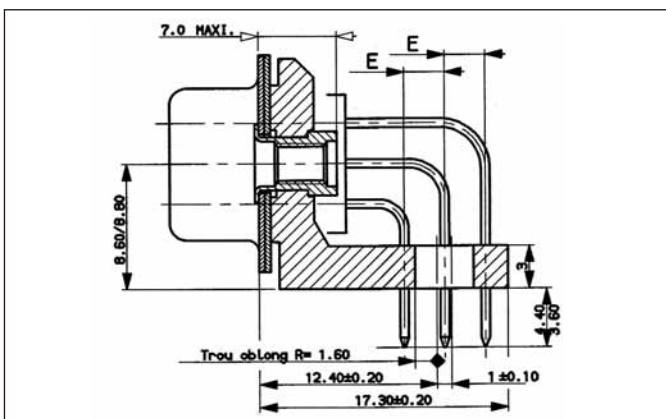
### 90° spills (1A0N / 2A0N / 1B0N / 2B0N)



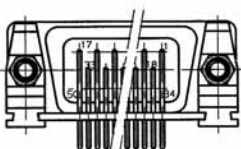
### 90° spills with bracket (shell size E to C)



### 90° spills with bracket (shell size D)



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



For the dimension E :

Contact termination code	E (pitch between row)
1A0N, 2A0N, 1A7N, 2A7N, 1A9N, 2A9N	2,54 mm
1B0N, 2B0N, 1B7N, 2B7N, 1B9N, 2B9N	2,84 mm



# ESA/SCC 3401 001 02B

### Applications

Satellite  
 Launcher  
 Space station  
 Shuttle hardware  
 Probe



### High density and Non removable contacts

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

They are available with straight spills, 90° spills, contacts.

The connectors are Flight qualified parts.

### Standards

ESA/SCC 3401/001/GFSC  
 MIL-DTL-24308

## Part Number / Ordering information

<b>SCC specification number</b>	<b>3401 001 02 B D B M Y 44 P NMB OL3</b>
<b>Type Variant</b> 02 : high density (contact # 22)	
<b>B Testing Level</b> not to be modified	
<b>D*M series</b>	
<b>Shell Size</b> E = 15 cts ; A = 26 cts ; B = 44 cts ; C = 62 cts ; D = 78 cts	
<b>Mounting</b> Without indication : fixed mounting Y : floating mounting E : 4.40 captive nuts	
<b>Contact Layout Code</b> (see page 15)	
<b>Contact Type</b> P : Pin (Male) S : Socket (Female)	
<b>Residual Magnetism Level</b> NMB : ≤ 200 gammas	
<b>Contact Termination Code</b> (see table below)	

## Contact termination code

Contact terminations are indicated as follows :

Contact termination code for variant 02 (high density)		
For 15 to 62 contacts (shell size : E, A, B & C)	For 78 contacts (shell size : D)	Contact type
<b>OL3</b>		Straight spills
<b>1C0N</b>	<b>1D0N</b>	90° spills, without bracket
<b>1C7N</b>	<b>1D7N</b>	90° spills, with bracket and UNC 4-40 clinch nuts
<b>1C9N</b>	<b>1D9N</b>	90° spills, with bracket and M3 clinch nuts



## Contact layouts

Contact layouts are indicated by the codes specified hereafter (male insulation front view) :

Shell size	Code	Nb cts # 22	Layout
E	15	15	
A	26	26	
B	44	44	

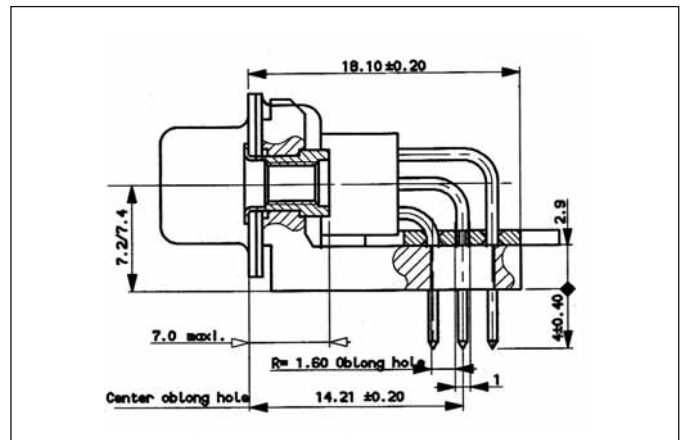
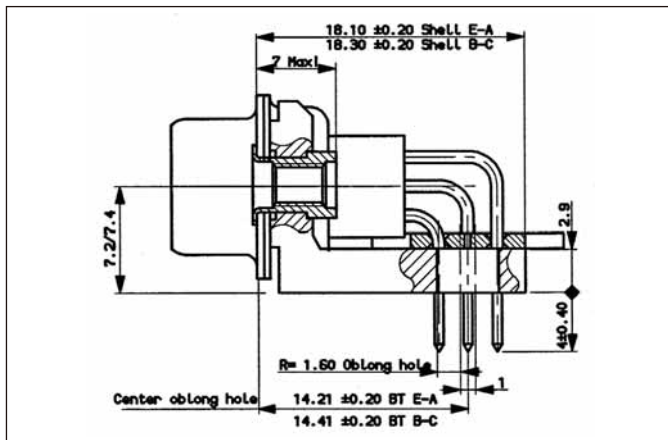
Shell size	Code	Nb cts # 22	Layout
C	62	62	
D	78	78	

## Dimensions (in mm)

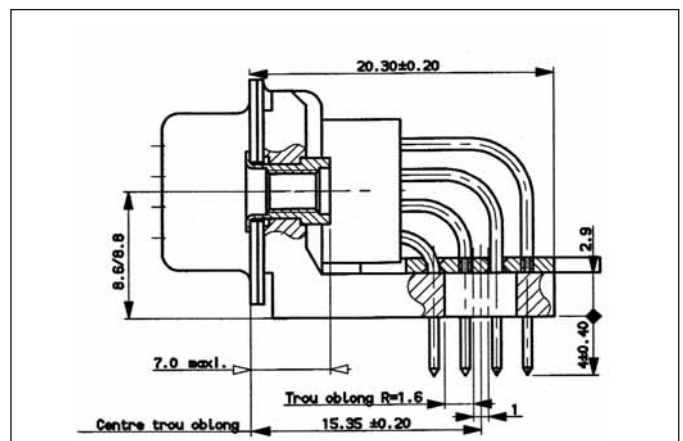
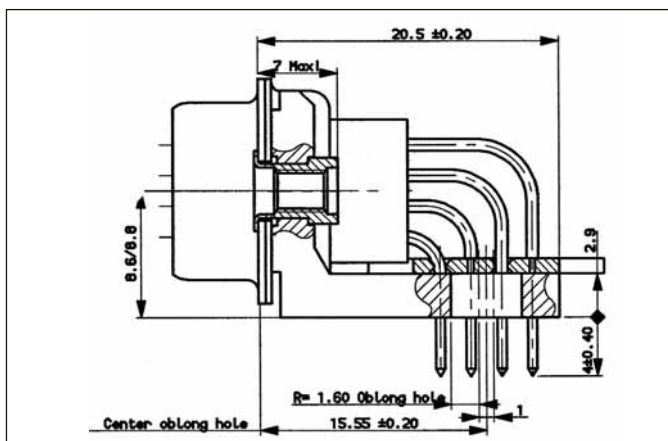
### Male connectors

### Female connectors

#### 1C7N & 1C9N (shell E to C)

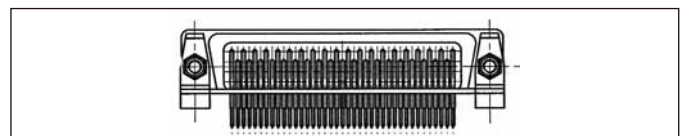


#### 1D7N & 1D9N (shell D)



The dimensions of the 90° spills are the same as the spills for the part number 1CON & 1DON.

Rear view of the connectors ⇒

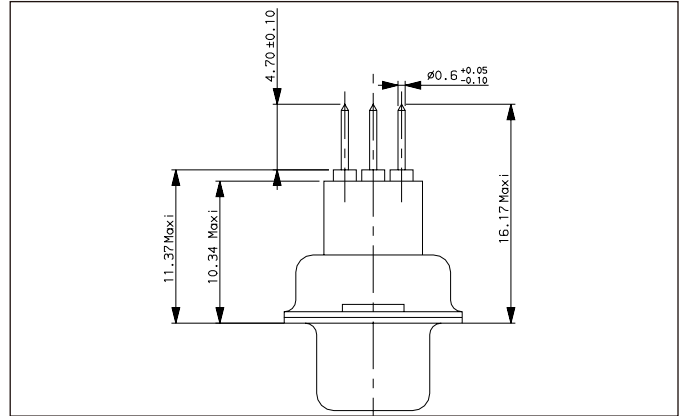
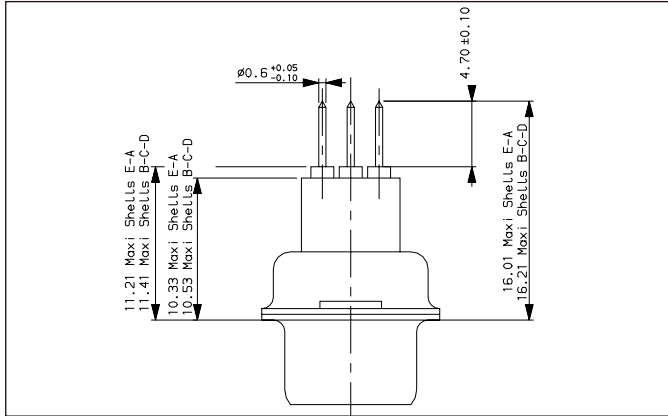




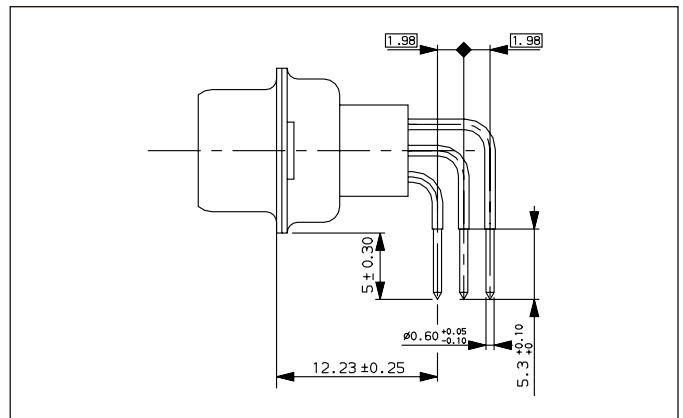
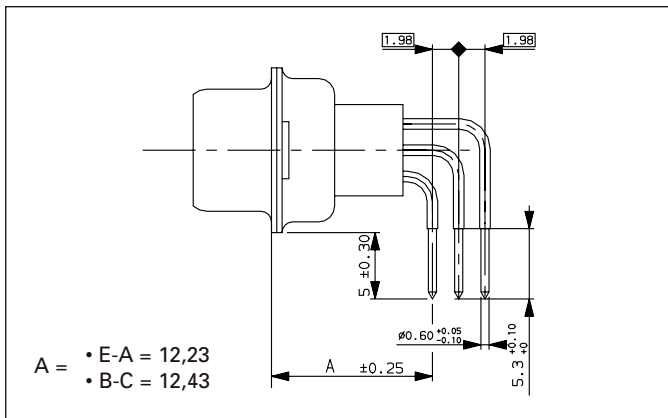
## Male connectors

## Female connectors

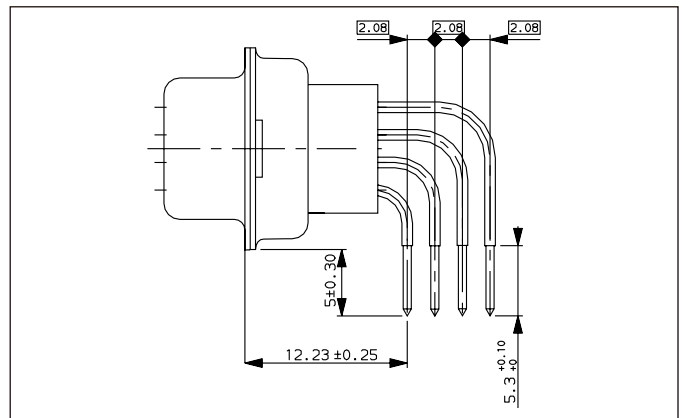
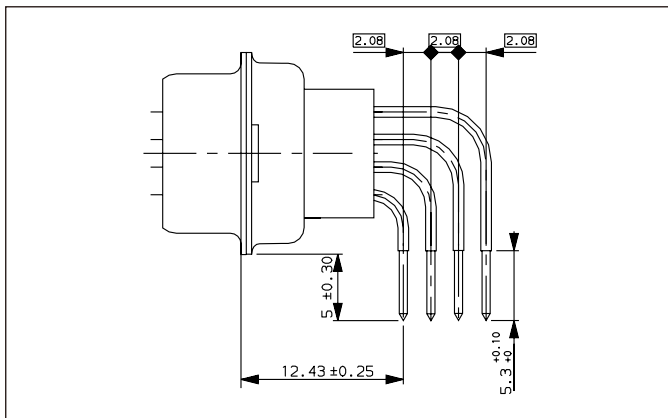
### Straight spills (OL3)



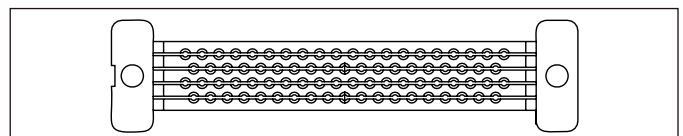
### 1C0N (shell size E to C)



### 1D0N (shell size D)



Connectors delivered with brittle drilled bar ⇒



# ESA/SCC 3401 002 01B



### Applications

Satellite  
 Launcher  
 Space station  
 Shuttle hardware  
 Probe



### Standard density & Removable Crimp Contacts

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.

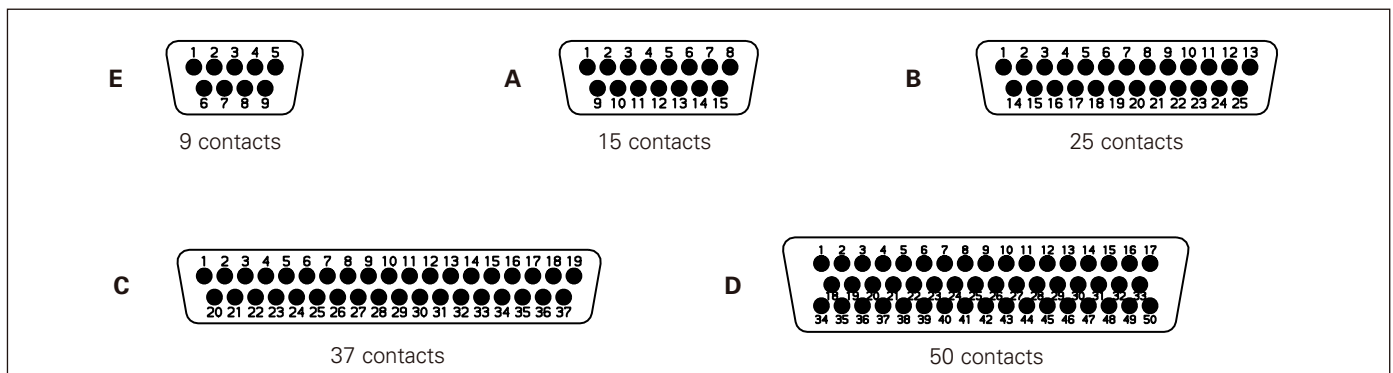
### Standards

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

## Part Number / Ordering information

<b>SCC specification number</b>	3401 002 01 B D B MA Y 25 P NMB FO
<b>Type variant</b>	01 : standard density (contact # 20)
<b>B Testing level</b>	not to be modified
<b>D*MA series</b>	
<b>Shell size</b>	E = 9 cts ; A = 15 cts ; B = 25 cts ; C = 37 cts ; D = 50 cts
<b>Mounting</b>	<p><b>Without indication</b> : fixed mounting</p> <p><b>Y</b> : floating mounting</p> <p><b>E</b> : 4.40 captive nuts.</p> <p><b>G</b> : rear grommet</p>
<b>Contact layout Code</b>	9 cts - 15 cts - 25 cts - 37 cts - 50 cts
<b>Contact Type</b>	<p><b>P</b> : Pin</p> <p><b>S</b> : Socket</p>
<b>Residual Magnetism Level</b>	<b>NMB</b> : ≤ 200 gammas
<b>Contact Termination Code</b>	<p><b>Without indication</b> : connectors delivered with # 20 contacts for wire AWG 20-24</p> <p><b>FO</b> : connectors delivered without contacts</p> <p><b>(FO is not marked on the connector)</b></p>

## Contact layouts (male insulation front view)





### Applications

Satellite  
 Launcher  
 Space station  
 Shuttle hardware  
 Probe

### Standards

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



### High Density & Removable Crimp Contacts

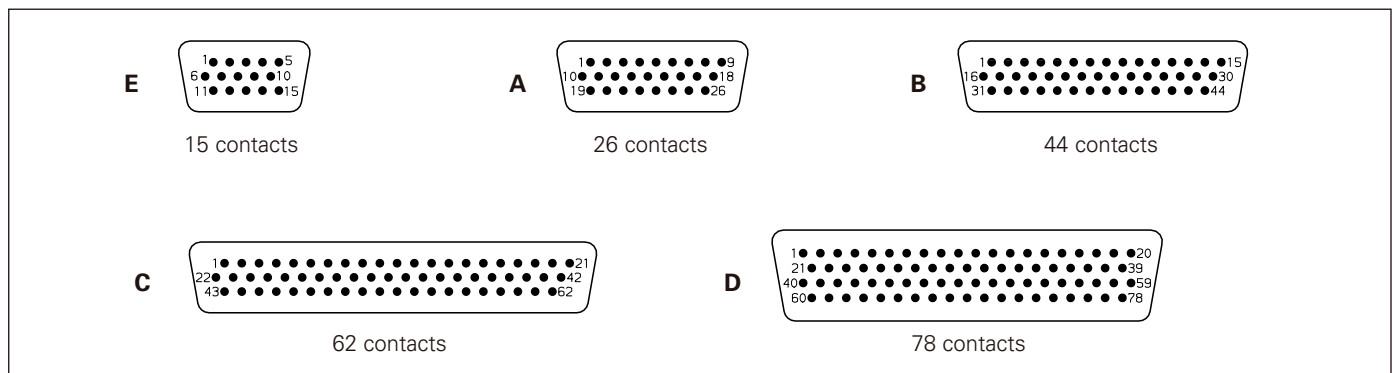
ESA/SCC 3401/002 non-magnetic connectors are used with ESA/SCC 3401/005 removable crimp contacts.

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

## Part Number / Ordering information

<b>SCC specification number</b>	<b>3401 002 02 B D B MA Y 44 P NMB FO</b>
<b>Type Variant</b>	<b>02</b> : high density (contact # 22)
<b>B Testing Level</b>	not to be modified
<b>D*MA series</b>	
<b>Shell Size</b>	<b>E</b> = 15 cts ; <b>A</b> = 26 cts ; <b>B</b> = 44 cts ; <b>C</b> = 62 cts ; <b>D</b> = 78 cts
<b>Mounting</b>	<b>Without indication</b> : fixed mounting <b>Y</b> : floating mounting <b>E</b> : 4.40 captive nuts <b>G</b> : rear grommet
<b>Contact Layout Code</b>	<b>15</b> cts - <b>26</b> cts - <b>44</b> cts - <b>62</b> cts - <b>78</b> cts
<b>Contact Type</b>	<b>P</b> : Pin <b>S</b> : Socket
<b>Residual Magnetism Level</b>	<b>NMB</b> : ≤ 200 gammas
<b>Contact Termination Code</b>	<b>Without indication</b> : connectors delivered with # 22 contacts for wire AWG 22-26 <b>FO</b> : connectors delivered without contacts <b>(FO is not marked on the connector)</b>

## Contact layouts (male insulation front view)



## 3401 020 01B & 3401 020 02B



### Applications

Satellite  
 Launcher  
 Space station  
 Shuttle hardware  
 Probe



### Standard and high density D-Sub savers, Removable Contacts

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 pin-socket contacts.

These products are also suitable for Flight.

### Standards

ESA/SCC 3401 020

## Part Number / Ordering information

### • Standard density

<b>SCC specification number</b>	<b>3401 020</b>	<b>01</b>	<b>B</b>	<b>D</b>	<b>B BMA</b>	<b>25</b>	<b>PS</b>	<b>NMB</b>	<b>FO</b>
<b>Type Variant</b>	<b>01</b> : standard density (contact # 20)								
<b>B Testing Level</b>	not to be modified								
<b>D*BMA series</b>									
<b>Shell Size</b>	<b>E</b> = 9 cts ; <b>A</b> = 15 cts ; <b>B</b> = 25 cts ; <b>C</b> = 37 cts ; <b>D</b> = 50 cts								
<b>Contact Layout Code</b>	<b>9</b> cts - <b>15</b> cts - <b>25</b> cts - <b>37</b> cts - <b>50</b> cts								
<b>Contact Type</b>	<b>PS</b> : Pin - Socket								
<b>Residual Magnetism Level</b>	<b>NMB</b> : ≤ 200 gammas								
<b>Contact Termination Code</b>	<b>Without indication</b> : connectors delivered with saver contact # 20 <b>FO</b> : connectors delivered without contacts <b>(FO is not marked on the connector)</b>								

### • High density

<b>SCC specification number</b>	<b>3401 020</b>	<b>02</b>	<b>B</b>	<b>D</b>	<b>B BMA</b>	<b>44</b>	<b>PS</b>	<b>NMB</b>	<b>FO</b>
<b>Type Variant</b>	<b>02</b> : high density (contact # 22)								
<b>B Testing Level</b>	not to be modified								
<b>D*BMA series</b>									
<b>Shell Size</b>	<b>E</b> = 15 cts ; <b>A</b> = 26 cts ; <b>B</b> = 44 cts ; <b>C</b> = 62 cts ; <b>D</b> = 78 cts								
<b>Contact Layout Code</b>	<b>15</b> cts - <b>26</b> cts - <b>44</b> cts - <b>62</b> cts - <b>78</b> cts								
<b>Contact Type</b>	<b>PS</b> : Pin - Socket								
<b>Residual Magnetism Level</b>	<b>NMB</b> : ≤ 200 gammas								
<b>Contact Termination Code</b>	<b>Without indication</b> : connectors delivered with saver contact # 22 <b>FO</b> : connectors delivered without contacts <b>(FO is not marked on the connector)</b>								

See contact layouts for saver connectors p.17 for standard density and p. 18 for high density.