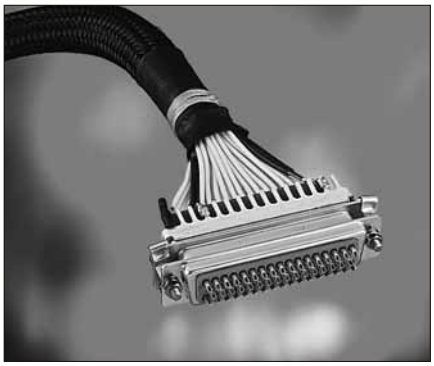
D*M-NMB

Applications

Satellite
Launcher
Space station
Shuttle hardware
Probe

Standards

D*M-NMB



Standard density D-Sub, Non Removable Contacts (Space Grade)

D*M-NMB non-magnetic connectors use the same components as the 3401/001 ESA/SCC and S311-P-10 GSFC connectors. However they are manufactured in accordance full ESA or NASA, MIL-DTL-24308. Consequently no traceability information can be delivered for these items. They are available with solder buckets, straight spills, 90° spills, wire wrap contacts and mixed layouts with coaxial and power contacts. This version is suitable for Engineering Models as well as Flight Models.

Part Number / Ordering information

Series : D*M (contact # 20)	D	B	M	F	25	P	511	U	NMB	***

Shell Size
E = 9 cts ; **A** = 15 cts ; **B** = 25 cts ; **C** = 37 cts ; **D** = 50 cts

Mounting
Nothing : standard mount
F : float mount
O : UNC 4-40 clinch nut
L : M3 clinch nut

Contact Layout Code
(see below 11)

Contact Type
P : Pin (male)
S : Socket (female)

Contact Termination Code
(see page 21)

Nothing : delivered without bracket but with bar
U : delivered with bracket & bar, but without clinch nut (*)

Residual Magnetism and Shell Plating
NMB : ≤ 200 gamma maximum residual magnetism : shell plated 1.27 micron gold mini over copper (conform to GSFC)

Special Modification

(*) **Note** : Code U only used for the 5**, 8** & 7** series.

Contact layouts

Contact layouts are indicated by the codes specified hereafter :

Shell size	Code	Nb cts # 20	Nb cts # 8
E	09	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
	17W2	15	2

Shell size	Code	Nb cts # 20	Nb cts # 8
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

See layouts p. 11

Note : Mixed layout are not available in 90° spills

D*M-NMB

Contact termination code

Contact terminations are indicated as follows :

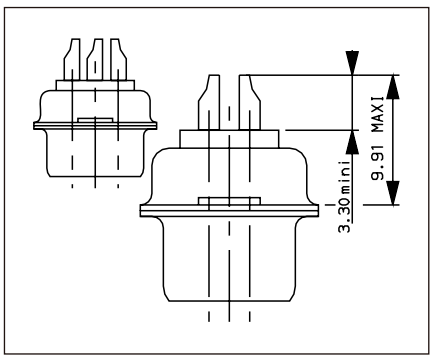
Contact termination code for D*M-NMB		
Code for Ø 0,63	**Code for Ø 0,76**	**Contact type**
011		Solder bucket
311	**211**	Straight spills
411		Wire wrap, 3 wraps
	711	90° spills, 2.84 mm pitch & US Footprint (2)
511	**2A0N**	90° spills, without bracket, 2.54 mm pitch & European Footprint (1)
811	**2B0N**	90° spills, without bracket, 2.84 mm pitch & European Footprint (1)
1A9N	**2A9N**	90° spills, with bracket, 2.54 mm pitch, M3 clinch nuts & European Footprint (1)
1B9N	**2B9N**	90° spills, with bracket, 2.84 mm pitch, M3 clinch nuts & European Footprint (1)
	2AUN	90° spills, with bracket, 2.54 mm pitch & European Footprint (1)
	2BUN	90° spills, with bracket, 2.84 mm pitch & European Footprint (1)
1A7N	**2A7N**	90° spills, with bracket, 2.54 mm pitch, # 4-40 clinch nuts & European Footprint (1)
1B7N	**2B7N**	90° spills, with bracket, 2.84 mm pitch, # 4-40 clinch nuts & European Footprint (1)
	2B7S	90° spills, with bracket, 2.84 mm pitch, # 4-40 clinch nuts & US Footprint (2)
	2B9S	90° spills, with bracket, 2.84 mm pitch, M3 clinch nuts & US Footprint (2)

(1) European Footprint : Distance from rear of flange to first row ⇒ 9.40 mm (.37 inch)
(2) US Footprint : Distance from rear of flange to first row ⇒ 7.19 mm (.283 inch)

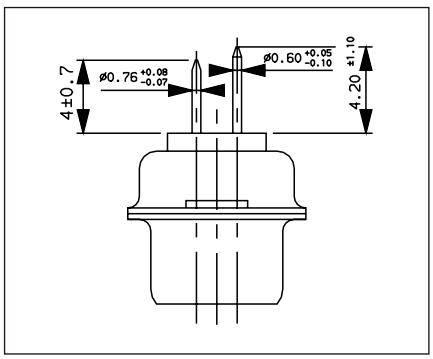
Dimensions for termination code (in mm)

Male & Female Connectors

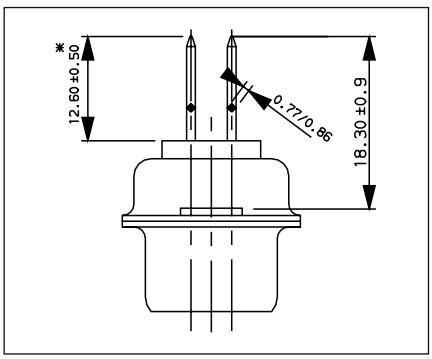
011



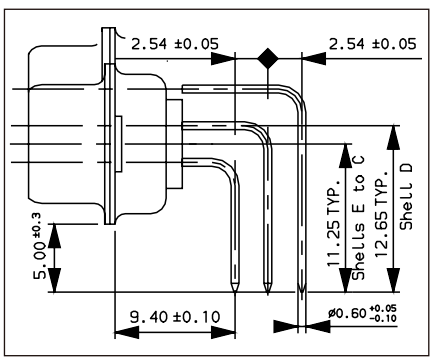
211 & 311



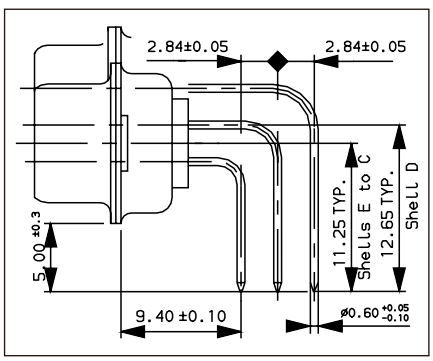
411



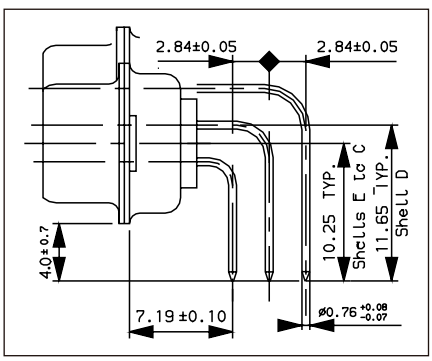
511



811



711



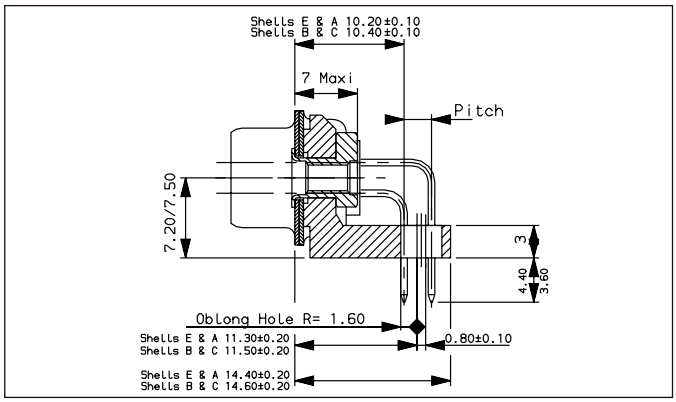
(*) The dimension is the length of the square part of the contact.

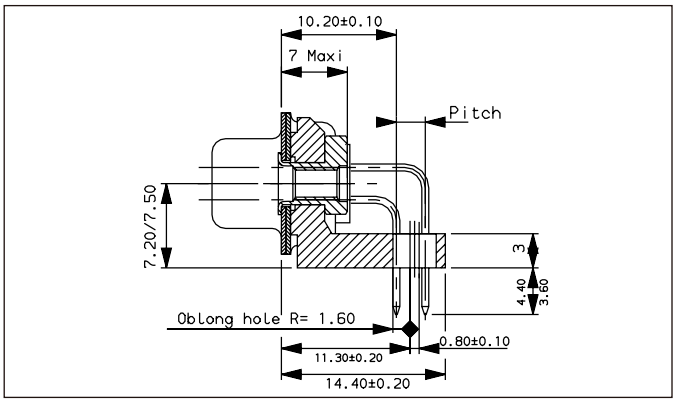
D*M-NMB

Male connectors

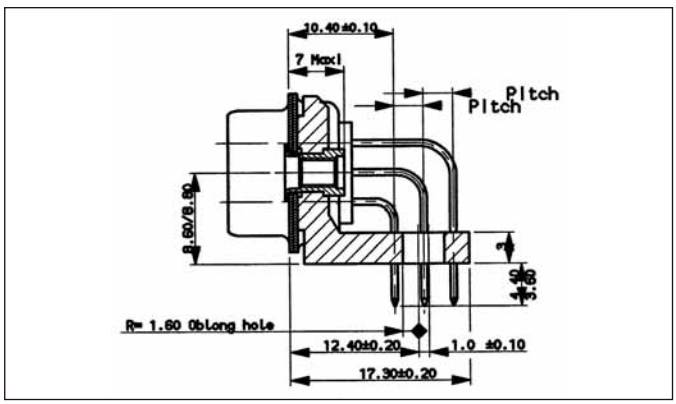
Female connectors

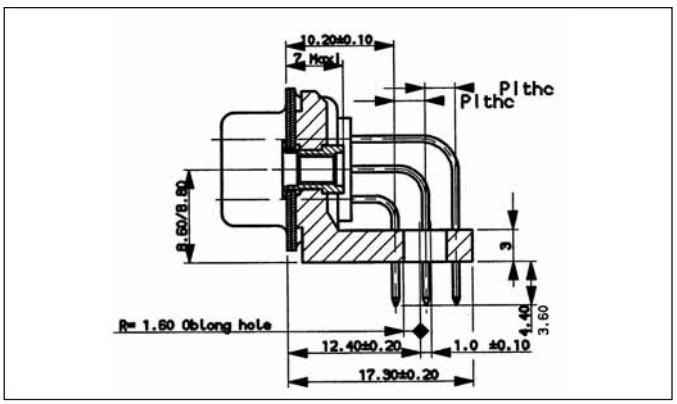
90° spills with bracket - European footprint (shell size E to C)





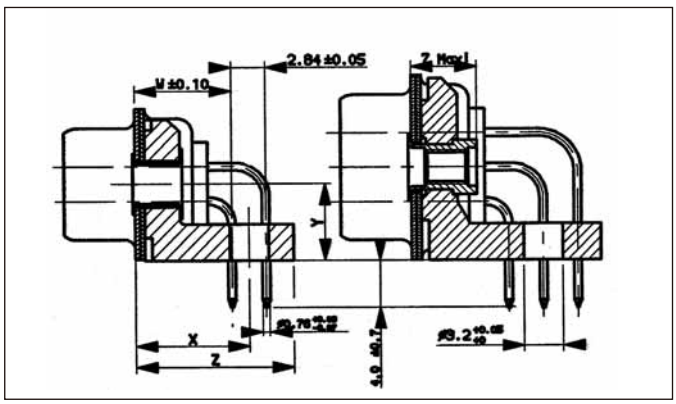
90° spills with bracket - European footprint (shell size D)

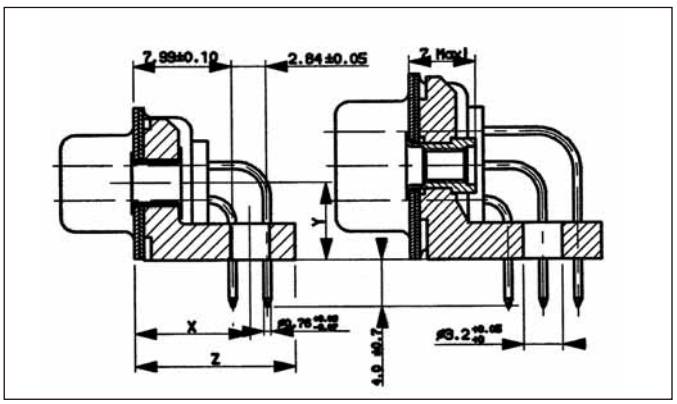




For the pitch : ⇒ 2,54 mm for **1A9N, 2A9N, 1A7N & 2A7N**
⇒ 2,84 mm for **1B9N, 2B9N, 1B7N & 2B7N**

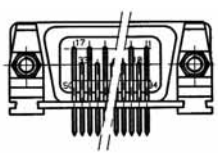
90° spills with bracket - US footprint (711U, 2B7S & 2B9S)





Shell size	W	X		Y	Z	
E & A	7,99 .315	9,28 .365	9,60 .378	6,34 .250	12,94 .509	13,16 .518
B & C	8,19 .322	9,48 .373	9,80 .386	6,34 .250	13,14 .517	13,36 .526
D	8,19 .322	10,87 .428	11,19 .441	7,67 .302	15,63 .615	15,85 .624

Shell size	X		Y	Z	
E to C	9,28 .365	9,60 .378	6,34 .250	12,94 .509	13,16 .518
D	10,67 .420	10,99 .433	7,67 .302	15,43 .607	15,65 .616



8630-NMB (Crimp)

Applications

Satellite
Launcher
Space station
Shuttle hardware
Probe

Standards

8630-NMB

Standard density D-Sub Removable Contacts (Space Grade)

8630-NMB non-magnetic connectors use the same components as the ESA/SCC 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. They are used with removable crimp contacts. This version is suitable for Engineering Models as well as Flight Models.

Part Number / Ordering information

Series : 8630 (standard density) # 20 contacts layouts	863	0	L	25	P	0	11	NMB	L	***

Mounting style
0 : standard mount
1 : floating mount

Other mounting style
Nothing : standard or floating mount
O : UNC 4-40 clinch nuts
L : M3 clinch nuts

Contact layout Code
09 cts - **15** cts - **25** cts - **37** cts - **50** cts

Contact Type
P : Pin
S : Socket

(*)
0 : for wire # 20 to 24
R : for wire # 26 to 28
E : for wire # 18

(*) Contact plating
11 = 1.27 micron gold over copper
Note : to be indicated if connectors are ordered with contacts (no «L» at the end of the P/N)

Residual magnetism
NMB : ≤ 200 gamma maximum residual magnetism ; shell plated 1.27 micron gold mini over copper (conform to GSFC)

(*)
Without indication : connectors delivered with contacts for wire AWG 20-24
L : connectors delivered without contacts

Special modifier

(*) : The codes 0, 11 & 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

See layouts p. 17

8635-NMB (Spill)

Applications

Satellite
Launcher
Space station
Shuttle hardware
Probe

Standards

8635-NMB with Spill Contacts

High density D-Sub, Non Removable Contacts (Space Grade)

These 8635-NMB non-magnetic connectors use the same components as the ESA/SCC 3401 001 02B. However they are manufactured in accordance with ESA and NASA specification.

Consequently no traceability information can be delivered for these items. They are used with non removable contacts. This version is suitable for Engineering Models as well as Flight Models.

Part Number / Ordering information

Series : 8635 (high density) # 22 contacts layouts	8635	F	26	P	0L3	NMB	***

Mounting style & Grommet
Nothing : standard mount
F : Floating mount
O : UNC 4-40 clinch nuts
L : M3 clinch nuts

Contact layout
15 cts - **26** cts - **44** cts - **62** cts - **78** cts

Contact Type
P : Pin
S : Socket

Termination type
(see below)

Residual magnetism
NMB : ≤ 200 gamma maximum residual magnetism ; shell plated 1.27 micron gold mini over copper

Special modification

Contact termination code

Termination type	
1.27 mm shell plating	**Contact type**
OL3	Straight spills
1CON	90°, disposable drilled bar, 15 to 62 contacts, 1.98 pitch
1DON	90°, disposable drilled bar, 78 contacts (only D size), 2.08 pitch
1CUN	90°, with brackets, 15 to 62 contacts, 1.98 pitch (1)
1DUN	90°, with brackets, 78 contacts, 2.08 pitch (1)
1C7N	90°, with brackets and UNC 4-40 clinch nuts, 15 to 62 contacts, 1.98 pitch
1D7N	90°, with brackets and UNC 4-40 clinch nuts, 78 contacts, 2.08 pitch
1C9N	90°, with brackets and M3 clinch nuts, 15 to 62 contacts, 1.98 pitch
1D9N	90°, with brackets and M3 clinch nuts, 78 contacts, 2.08 pitch

(1) : no ESA/SCC equivalent version.

See layouts p.18

8635-NMB (Crimp)

Applications

Satellite
Launcher
Space station
Shuttle hardware
Probe

Standards

8635-NMB with Crimp Contacts

High density D-Sub Removable Contacts (Space Grade)

These 8635-NMB non-magnetic connectors use the same components as the ESA/SCC 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.They are used with removable crimp contacts.This version is suitable for Engineering Models as well as Flight Models.

Part Number / Ordering information

Series : 8635 (high density) # 22 contacts layouts	**8635**	**F**	**26**	**P**	**0**	**11**	**NMB**	**L**	*******

Mounting style & Grommet
Nothing : standard mount
F : Float mount
O : UNC 4-40 clinch nuts
L : M3 clinch nuts

Contact layout Code
15 cts - **26** cts - **44** cts - **62** cts - **78** cts

Contact Type
P : Pin
S : Socket

(*) 0 : for wire # 22 to 26

(*) Contact plating
11 : 1.27 micron gold over copper
Note : to be modified if connectors are ordered with contacts (no «L» at the end of the P/N)

Residual magnetism
NMB : ≤ 200 Gamma maximum residual magnetism ; shell plated 1.27 micron gold mini over copper (conform to GSFC)

(*)
Without indication : connector delivered with contacts for wire AWG 22-26
L : connector delivered without contacts

Special modification

(*) : The codes 011 & 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

See layouts p. 18

D*BMA-NMB

Applications

Satellite
Launcher
Space station
Shuttle hardware
Probe

Standards

D*BMA-NMB

D-Sub savers (Space Grade)

D*BMA-NMB savers connectors are derived from ESA/SCC 3401 020 savers.

However they are manufactured in accordance with ESA.

Consequently no traceability information can be delivered for these items. They are used with removable crimp contacts.

This version is suitable for Engineering Models as well as Flight Models.

Part Number / Ordering information

• Standard density with removable contacts # 20

Series : D*BMA	D	B	BMA	25	PS	011	NMB	L
Shell size **E** = 9 cts - **A** = 15 cts - **B** = 25 cts - **C** = 37 cts - **D** = 50 cts								
Contact layout Code **09** cts - **15** cts - **25** cts - **37** cts - **50** cts								
Contact Type **PS** : Pin - Socket								
Contact plating **011** : 1.27 micron gold over copper								
Residual magnetism **NMB** : ≤ 200 Gamma maximum residual magnetism, shell plated 1.27 micron gold mini over copper								
Without indication : connectors delivered with contacts **L** : connectors delivered without contacts								

• High density with removable contacts # 22

Series : D*BMA	D	B	BMA	44	PS	011	NMB	L
Shell size **E** = 15 cts - **A** = 26 cts - **B** = 44 cts - **C** = 62 cts - **D** = 78 cts								
Contact layout Code **15** cts - **26** cts - **44** cts - **62** cts - **78** cts								
Contact Type **PS** : Pin - Socket								
Contact plating **011** : 1.27 micron gold over copper								
Residual magnetism **NMB** : ≤ 200 Gamma maximum residual magnetism, shell plated 1.27 micron gold mini over copper								
Without indication : connectors delivered with contacts **L** : connectors delivered without contacts								

(*) : The codes 011 & L are not marked on the connector. They are only used for the P/N.

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

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