 AEROSPATIALE AVIONS NORMALISATION	CONNECTOR - COAXIAL BNC TYPE, SEALED VERSION	NSA938601 Issue : P Date : 12.94 Page : 1/11
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SUMMARY

- 1 - SCOPE AND FIELD OF APPLICATION
- 2 - REFERENCES
- 3 - TERMINOLOGY
- 4 - REQUIRED CHARACTERISTICS
- 5 - DESIGNATION
- 6 - MARKING
- 7 - TECHNICAL SPECIFICATION
- 8 - MANUFACTURERS

AMENDMENT RECORD SHEET

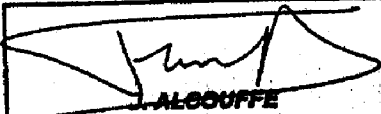
1 - SCOPE AND FIELD OF APPLICATION

This standard specifies the dimensions, tolerances, required characteristics and the masses of a coaxial connector BNC type.

2 - REFERENCES

2.1- Referenced documents

- EN 2424 : Aerospace series - Marking of aerospace products.
- NSA937801 : Cut-outs, circular, assembly of equipment
(Item code Nos. 027 and 123)
- MIL-C-39012 : Connectors, coaxial, radio frequency, general specification for.
- MIL-STD-202 : Electronic and electrical component parts, test methods for.

 J. ALCOUFFE	WRITER : A/DET/SM-NORM F. BILLUART	N° CLASSEMENT E.938601 Page : 39
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NSA938601

Issue : 12.94

Page : 2

2.2 - Associated products standards

NSA935340 : Coaxial RG 58C/U - Code XA, polyethylene insulation/PVC, +85 °C max.

NSA935343 : Coaxial RG 214/U - Code XD, polyethylene insulation/PVC, +85 °C max.

NSA935344 : Coaxial RG 188 A/U - Code XE, P.T.F.E. insulation, +250 °C max.

NSA935346 : Coaxial RG 141 A/U - Code XG, P.T.F.E. insulation, +250 °C max.

NSA935358 : Cable - Coaxial, 50 OHMS, code WA, polyimide insulation, P.T.F.E., +200 °C.

NSA935359 : Cable - Coaxial, 50 OHMS, code WB, polyimide insulation, P.T.F.E., +200 °C.

ASNE0293 : Cable - Coaxial, double screening, code XF-RG 400/U, +200 °C.

2.3 - Associated documents

I.P. DA - 83.75 : Principles of use of special cable ends.

I.P. DA - 83.45 : "BNC" type coaxial connectors - NSA938601.

NSA937801 : Cut-outs, circular, assembly of equipment (Item code Nos 027 and 123).

3 - TERMINOLOGY

Not applicable.

4 - REQUIRED CHARACTERISTICS

4.1 - Configuration, dimensions, tolerances, mass

4.1.1 - Configurations shall be in accordance with the figures

4.1.1.1 - Configuration of straight plug shall be in accordance with figure 1.

4.1.1.2 - Configuration of straight socket shall be in accordance with figure 2.

4.1.1.3 - Configuration of square flange socket shall be in accordance with figure 3.

4.1.1.4 - Configuration of round flange socket shall be in accordance with figure 4.

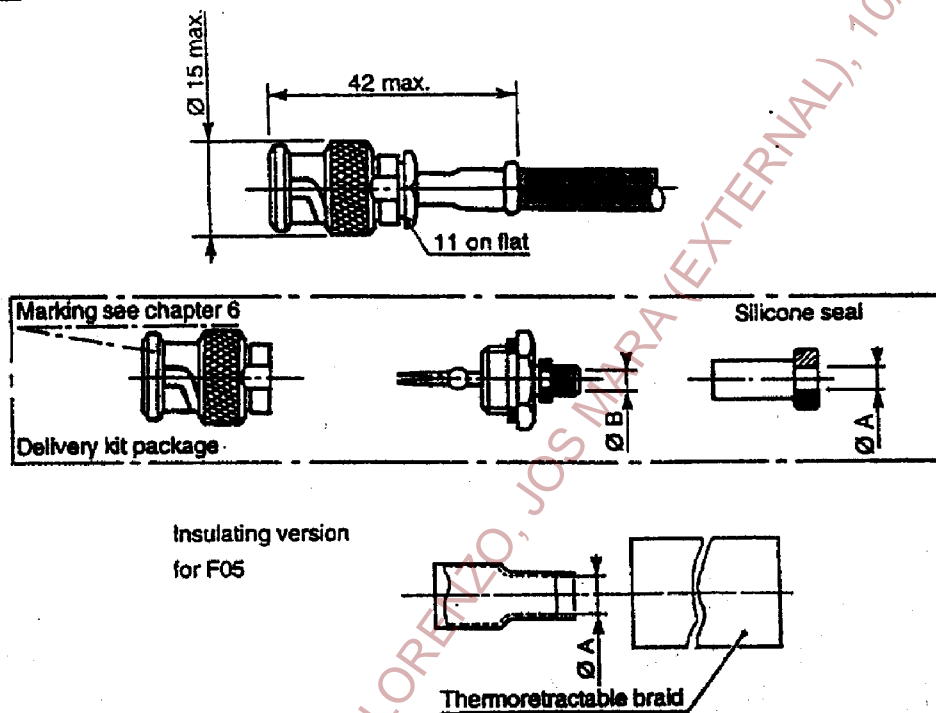
4.1.1.5 - Configuration of right-angle plug shall be in accordance with figure 5.

4.1.2 - Dimensions shall be in accordance with the figures and the tables**4.1.2.1 - Dimensions of straight plug shall be in accordance with figure 1 and table 1.****4.1.2.2 - Dimensions of straight socket shall be in accordance with figure 2 and table 2.****4.1.2.3 - Dimensions of square flange socket shall be in accordance with figure 3 and table 3.****4.1.2.4 - Dimensions of round flange socket shall be in accordance with figure 4 and table 4.****4.1.2.5 - Dimensions of right-angle plug shall be in accordance with figure 5 and table 5.****4.1.3 - Tolerances shall be in accordance with the figures and the tables****4.1.3.1 - Tolerances of straight plug shall be in accordance with table 1.****4.1.3.2 - Tolerances of straight socket shall be in accordance with table 2.****4.1.3.3 - Tolerances of square flange socket shall be in accordance with table 3.****4.1.3.4 - Tolerances of round flange socket shall be in accordance with table 4.****4.1.3.5 - Tolerances of right-angle plug shall be in accordance with table 5.****4.1.4 - Mass shall be in accordance with the tables****4.1.4.1 - Mass of straight plug shall be in accordance with table 1.****4.1.4.2 - Mass of straight socket shall be in accordance with table 2.****4.1.4.3 - Mass of square flange socket shall be in accordance with table 3.****4.1.4.4 - Mass of round flange socket shall be in accordance with table 4.****4.1.4.5 - Mass of right-angle plug shall be in accordance with table 5.****4.2 - Materials, finishes****Materials and finishes shall be in accordance with table 6.****4.3 - Temperatures****Operating temperatures shall be between -65 °C and +165 °C.****4.4 - Electrical characteristics****Operating voltage : 500 VAC/50 Hz.****Impedance : 50 Ω.****4.5 - General characteristics****This connector shall be stream tight.**

NSA938601

Issue : 12.94

Page : 4

Straight plug : Part code F

Dimensions in mm.

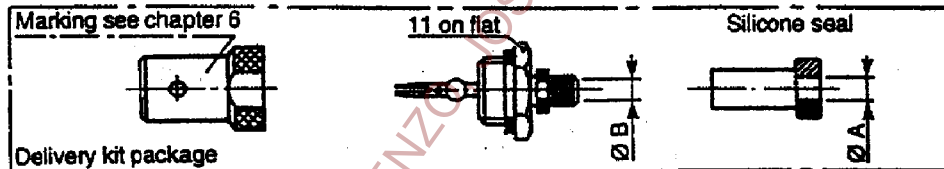
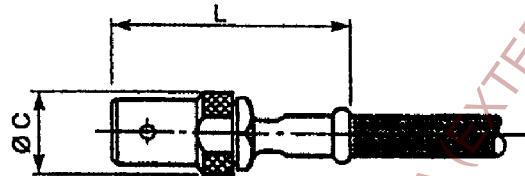
Figure 1 - Configuration, dimensions of straight plug

Table 1 - Dimensions, tolerances, mass of straight plug

ITEM CODE No.	CABLE	Ø A ± 0,3	Ø B ± 0,05	SPECIFICATION	MASS (g)	OBSERVATIONS
01	RG58C/U NSA935340XA	4,6	3,10	M39012/16-0004	16	
03	RG141A/U NSA935346XG			M39012/16-0006		
04	NSA935359WB	2,8				
05	RG188A/U NSA935344XE	3,0	1,78			Sealing sleeve
06	RG214 NSA935343XD	10,3	7,44		18	
07	RG400/U ASNE0283XF	5,0	3,16		16	
08	NSA935358WA	7,3	7,44		18	
09	ASNE0406WD					

Dimensions in mm.

Straight socket : Part code P



Dimensions in mm.

Figure 2 - Configuration, dimensions of straight socket

Table 2 - Dimensions, tolerances, mass of straight socket

ITEM CODE No.	CABLE	Ø A ± 0,3	Ø B ± 0,05	Ø C noml.	L	SPECIFICATION	MASS (g)
01	RG58C/U NSA935340XA	4,6	3,1	13	38	M39012/17-0004	18
03	RG141A/U NSA935346XG					M39012/17-0006	

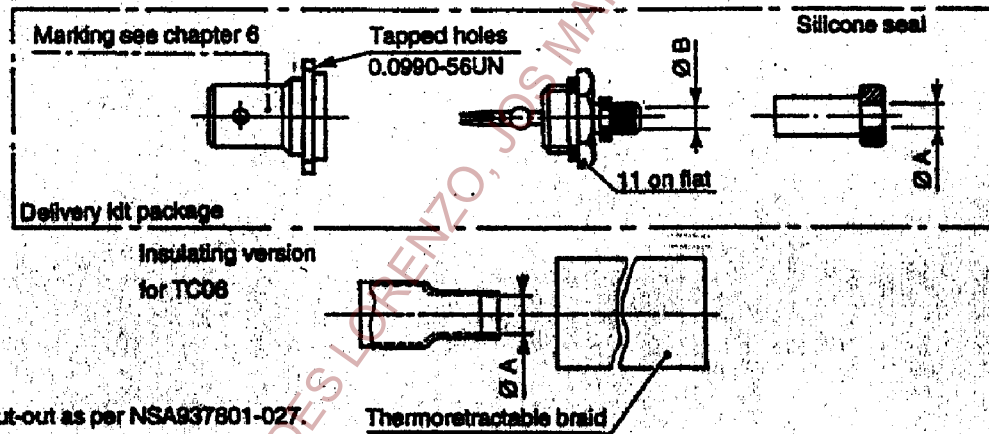
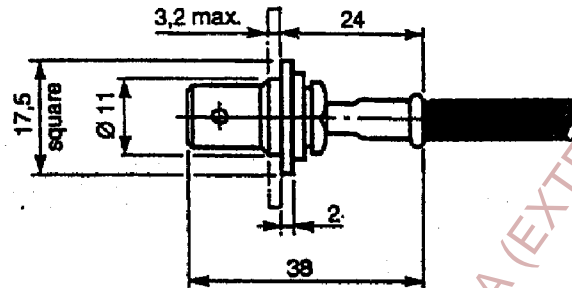
Dimensions in mm.

NSA938601

Issue : 12.94

Page : 6

Bulkhead connector - Square flange socket : Part code TC



Installation cut-out as per NSA937801-027.

Dimensions in mm.

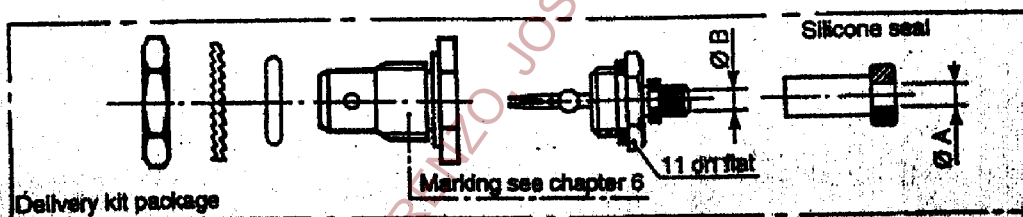
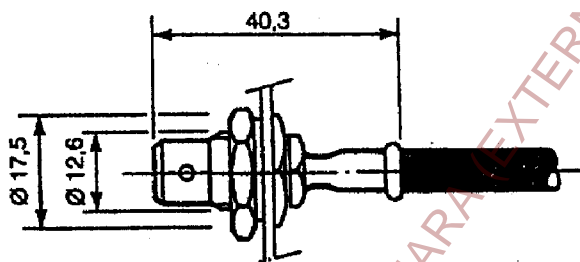
Figure 3 - Configuration, dimensions of square flange socket

Table 3 - Dimensions, tolerances, mass of square flange socket

ITEM CODE No.	CABLE	Ø A ± 0,3	Ø B ± 0,05	SPECIFICATION	MASS (g)	OBSERVATIONS
01	RG58C/U NSA935340XA	5,0	3,10	M39012/18-0004	16	
03	RG141A/U NSA935346XG	4,6		M39012/18-0006		
04	NSA935350WB	2,9				
05	RG400/U ASNE0293XF	5,0	3,16			
06	RG188A/U NSA935344XE	3,0	1,78			Sealing sleeve See note

Note : Flanges with smooth holes can be used as long as supplies last.
Dimensions in mm.

Bulkhead connector - Round flange socket : Part code TR



Installation cut-out as per NSA937801-123.

Dimensions in mm.

Figure 4 - Configuration, dimensions of round flange socket

Table 4 - Dimensions, tolerances, mass of round flange socket

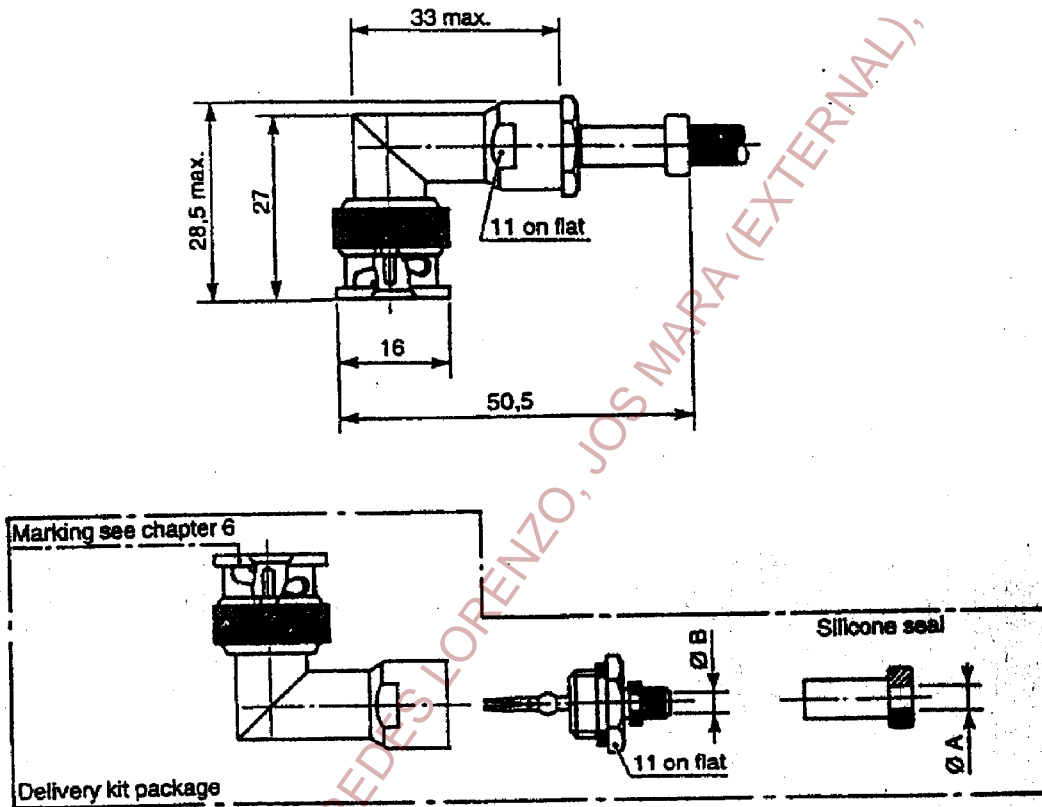
ITEM CODE No.	CABLE	$\varnothing A$ $\pm 0,3$	$\varnothing B$ $\pm 0,05$	SPECIFICATION	MASS (g)
01	RG58C/U NSA935340XA	4,6	3,1	M39012/19-0003	20
03	RG141A/U NSA935346XG	5,0		M39012/19-0005	

Dimensions in mm.

NSA938601

Issue : 12.94

Page : 8

Right-angle plug : Part code FC

Dimensions in mm.

Figure 5 - Configuration, dimensions of right-angle plug

Table 5 - Dimensions, tolerances, mass of right-angle plug

ITEM CODE No.	CABLE	Ø A ± 0,3	Ø B ± 0,05	SPECIFICATION	MASS (g)
01	RG58C/U NSA935340XA	4,6	3,1	M39012/20-0002	30
03	RG141A/U NSA935346XG				
04	NSA935359WB	2,8			

Dimensions in mm.

Table 6 - Materials, finishes

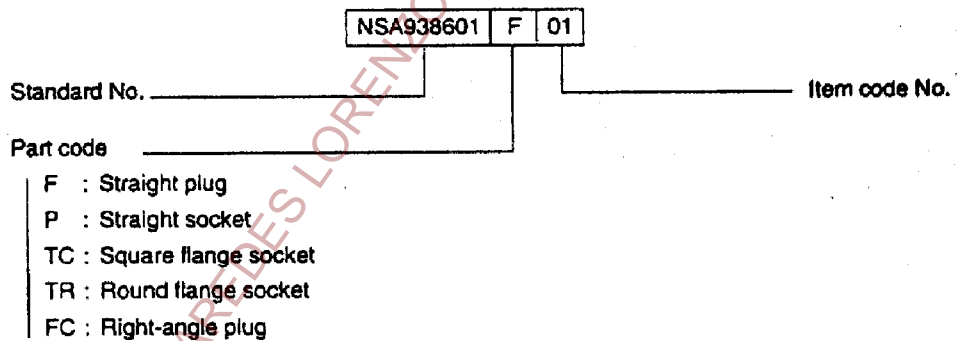
ELEMENT	MATERIAL	FINISHE
Shell	Brass	Silver-plated
Insulation	P.T.F.E.	-
Contact	Beryllium copper and brass	Gold plating

5 - DESIGNATION

Example of part number identification to be used on drawing schedules :

NSA938601F01 Connector

Example of part number construction :



6 - MARKING

Parts shall be marked as per EN 2424, category P.

Unless otherwise specified by contract, marking must be executed on a condition strip, it must include :

- The manufacturer's part number,
- The manufacturer's name or trademark,
- The date of manufacture (year, week),
- The identification defined in chapter 5.

7 - TECHNICAL SPECIFICATION

As per MIL-C-39012 and MIL-STD-202.

8 - MANUFACTURERS

Refer to the list of qualified manufacturers and products.

STANDARDS MANUAL

NSA938601

Issue : 12.94

Page : 10

AMENDMENT RECORD SHEET

Issue	Modified paragraph	Modification summary	Justification
A.05.71		New standard.	As per DT04-06-11
B.08.72		Reference IF. To. No. 623 added in page 1. Reference as per MIL-C-39012 added. Pages 2, 3, 4, 5, 6 amended.	As per DT04-06-11
C.02.82		Item code Nos. F04 and TC04 added.	Mod. 4167
D.11.83		"SEALED VERSION" added in title. MIL-STD-202 added in technical specification. Page 1 amended and item code Nos. F, P, TC, TR, FC added. Added in associated items and documents : RG400/U. Item code Nos. 05, 06, 07 added in page 2. Item code No. 05 added in page 4 + tapped holes 0.0990-56UN. Item code No. 04 added in page 5.	Mod. 3914
E.03.84		$\varnothing A \pm 0,3$ and masses added.	Manufacturer's remarks
F.04.84		In page 2 item code No. F08 added.	ATR 42 MP No. T0284
G.07.84		IF. To. No. 428 added + part number compilation modified.	Mod. 9999 Mod. 3914 Memo. TE631-231/82-HA
H.12.85		Cable E0349WC and E0406WD added. Manufacturer part number on the bag becomes manufacturer part number on the connector.	ATR 0000 Mod. 9999
J.06.86		Standard amended.	Mod. 9999
K.07.87		Item code Nos. F05 and TC06 modified : "UNSEALED" mention.	Mod. 9999 Manufacturer's fax
L.04.88		Item code Nos. F05 and TC06 modified : "Sealing sleeve" mention.	As per DT04-06-11 TE 423-E057/87-HAM

NOTE: Modification to the last standard issue are indicated by a vertical line in the margin.

CLASSEMENT: E 938601 Page : 48

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AMENDMENT RECORD SHEET

Issue	Modified paragraph	Modification summary	Justification
M.12.91		Standard fully amended. Cable reference modified for item code No. FC03 : RG141C/U changed to RG141A/U. Smooth hole on flange added for item code No. TC06 .	Mod. 9999 GTSE No. 2417/91
N.06.92		Note added for flanges with smooth holes	Mod. 9999 WGE 354
P.12.94		Standard amended. Reference ASNE0239 changed to ASNE0293. IF.To. No. 623 changed to I.P. DA - 83.75. IF.To. No. 949 changed to I.P. DA - 83.45. Operating temperature modified : -65 °C and +200 °C changed to -65 °C and +165 °C.	Mod. 9999 Following mistake

NOTE : Modification to the last standard issue are indicated by a vertical line in the margin.