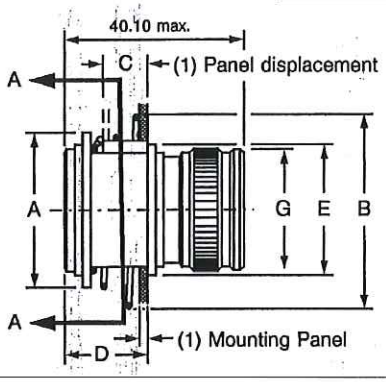
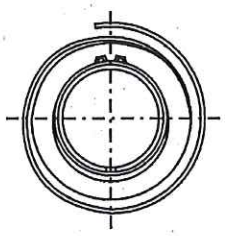
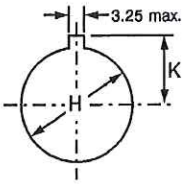
SHELL TYPE 79 – RACK AND PANEL PLUG





Section across A-A

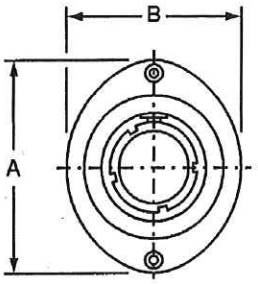


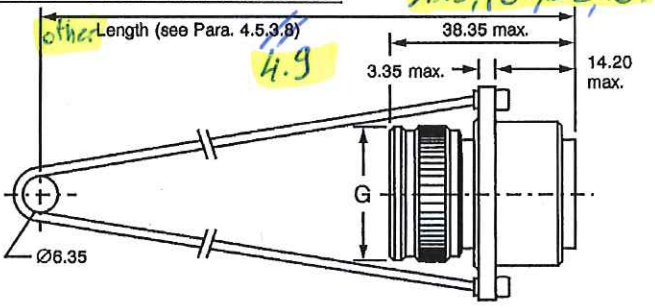
Shell Size	Dimensions (mm)									
	A Max	B Max	C (1) Max	Compression Force for C Max	Compression Force for C Nul	D Max	E Max	G Max	H Max	K Max
3	22.45	31	14.95 – e	1.6daN	0.3daN	21.05	19.3	17	15.55	11.05
7	29.6	34.3	14.55 – e	3.3daN	0.6daN	20.85	24.4	21.8	19.05	12.6
12	31.9	39.75	13.95 – e	5.0daN	1.2daN	20.85	27.25	25	22.20	14.2
19	35.15	43.4	13.95 – e	8.7daN	1.9daN	20.85	32	28.25	25.4	16.05
27	38.7	47.15	13.25 – e	11.8daN	2.7daN	20.6	35.75	30.95	29.15	17.8
37	45.95	53.5	12.65 – e	15.6daN	3.7daN	20.6	40.6	34.15	33.5	20
61	54.4	72	11.6 – e	26.2daN	6.1daN	20.3	50.4	42	41.5	23.95

NOTES

1. The displacement of dimension C depends on the panel thickness (e) used.

SHELL TYPE 78 – PLUG WITH LANYARD





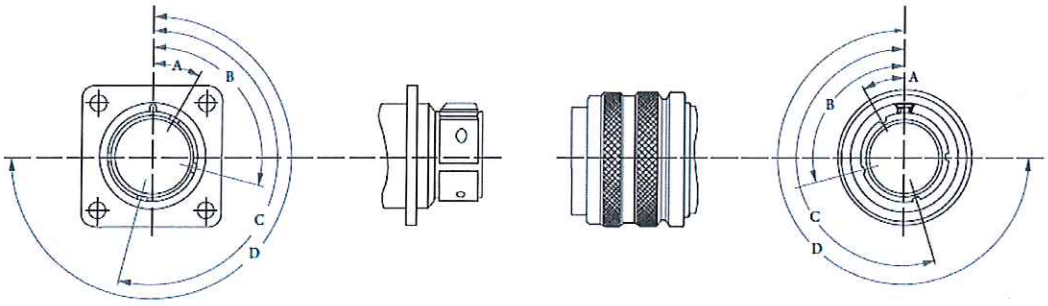
Shell Size	Dimensions (mm)		
	A Max	B Max	G Max
3	31.85	23.3	17
7	35.65	26.8	21.8
12	38.7	29.6	25
19	42.5	33.55	28.25
27	46.2	37.2	30.95
37	48.45	40.7	34.15
61	56.6	47.85	42

PAGE to be inserted after PAGE 14

FIGURE 2(d) – KEYs ORIENTATIONS

Key Orientation (Except 79)

Receptacle front face view **Plug front face view**



Angles Size	3				7				12				19				27				37				61			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Standard	23	97	187	–	23	97	187	277	30	105	195	270	30	105	195	270	30	105	195	270	30	105	195	270	30	105	195	270
DA	–	–	–	–	23	105	195	300	30	90	225	315	40	105	195	270	40	105	195	270	40	105	195	270	40	105	195	270
DB	–	–	–	–	23	115	210	285	30	120	210	285	30	115	195	270	30	115	195	270	30	115	195	270	30	115	195	270
DC	–	–	–	–	30	120	195	285	30	135	180	300	30	115	210	270	30	115	210	270	30	115	210	270	30	115	210	270
DD	–	–	–	–	30	97	210	270	45	105	210	315	30	115	195	280	30	115	195	280	30	115	195	280	30	115	195	280
DE	–	–	–	–	–	–	–	–	45	90	180	285	–	–	–	–	–	–	–	–	30	90	170	270	30	90	170	270
DF	–	–	–	–	–	–	–	–	45	120	270	300	–	–	–	–	–	–	–	–	30	115	170	255	30	115	170	255
DG	–	–	–	–	–	–	–	–	45	135	195	225	–	–	–	–	–	–	–	–	30	115	180	300	30	115	180	300

Angles unit : °

4.3.12 Solderability
As specified in ESCC Detail Specification No. 3401/009 for contact size 08, 12, 16 and 20, and in ESCC Detail Specification No. 3401/012 for contact size 22.

4.4 MATERIALS AND FINISHES
The materials and finishes shall be as specified herein. Where a definite material is not specified, a material which will enable the connectors specified herein to meet the performance requirements of this specification shall be used. Acceptance or approval of any constituent material does not guarantee acceptance of the finished product.

4.4.1 Shells, Coupling Ring and Nut
Aluminium, nickel-plated. Where residual magnetism is of importance, a black anodise treatment can be ordered (see Para. 4.5.4.8).

4.4.2 Inserts
Bonded sandwich: Silicone/Phenolic/Silicone.

4.4.3 Contacts
As specified in ESCC Detail Specification No. 3401/009 for contact size 08, 12, 16 and 20, and in ESCC Detail Specification No. 3401/012 for contact size 22.

4.4.4 Contact Retaining Clip
The retaining clip shall be made of beryllium copper.

4.4.5 Guiding and Locking Devices
Not applicable.

4.4.6 Magnetism Level
Not applicable.

4.5 MARKING

4.5.1 General
The marking of all components delivered to this specification shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and the following paragraphs. When the component is too small to accommodate all of the marking as specified, as much as space permits shall be marked and the marking information, in full, shall accompany the component in its primary package.

The information to be marked and the order of precedence, shall be as follows:

(a) Contact Identification.
(b) The ESCC Component Number.
(c) Characteristics.
(d) Traceability Information.

4.5.2 Contact Identification
Contact identification shall be marked in accordance with Figures 2(a) and 2(b).

4.5.3 The ESCC Component Number

Each component shall bear the ESCC Component Number which shall be constituted and marked as follows:

Example: 340100801B

- Detail Specification Number: 3008008
- Type Variant (see Note): 01
- Testing level: B

N.B.
Marking of the Type Variant is mandatory. No further reference to type variants is made in this specification.

4.5.4 Characteristics

The characteristics to be marked in the following order of precedence are:

(a) Connector series.
(b) Shell type.
(c) Grounding.
(d) Shell size.
(e) Contact arrangement.
(f) Type of contact.
(g) Insert clocking position.
(h) Contact dash number.
(i) Modification.

The information shall be constituted and marked as follows:

DA

Example: DBAS76G19-2PN1xxx

- Connector series: DBAS
- Shell type: 76
- Grounding: G
- Shell size: 19
- Contact arrangement: 2
- Type of contact: P
- Insert clocking position: N
- Contact dash number: 1
- Modification: xxx

• Keys orientations: DA.

4.5.4.1 Connector Series

This connector series shall be designated by the letters DBAS.

4.5.4.5 *Types of Contact*

The contact types shall be indicated by the following code letters.

Letter Code	Contact Type
P	Male
S	Female

4.5.4.6 *Insert Clocking Position*

Insert clocking positions are as shown in Figure 2(c) and shall be designated by the letter codes N, W, X, Y, B and C.

4.5.4.7 *Contact Dash Numbers*

The purpose of these numbers is to identify coaxial contacts which accept special cables. The following code numbers are applicable.

Contact Type	Cable Type	Code Number
Sizes 20, 16, 12	-	-
Standard coaxial	RG-174/U	-
	RG-178 B/U	-
	RG-179/U	-
	RG-187 B/U	-
	RG-188 A/U	-
	RG-196 A/U	-
Special coaxial	RG-180 B/U	1
Special coaxial	RG-195 B/U	1
Special coaxial	Special	9
Special coaxial	50 PPDTE	F1
Gauge 8 (Power)	Gauge 8	8
Size 22	-	-

4.5.4.8 Keys Orientations

Keys orientations angles are as shown in Figure 2(d) and shall be designated by the letter codes D A, D B, D C, D D, D E, D F and D G.

4.5.4.8 *Modification Codes*

These high reliability connectors are ordered separately from the contacts and this is specified by code 090. This code shall never appear on the connector itself, but shall be used in paperwork only.

Modification codes shall be expressed in letters, numbers, or both. When there is no modification of the standard product, no code shall appear.

Plating codes: Black anodise treatment shall be identified by code 031.

Length of lanyard.

~~Other codes:~~ The cable lengths for shell type 78 are designated by the following modification codes.

Modification Code	Cable Length (mm)
A614	134.3 ±2.1
B614	164.3 ±2.1
B864	188 ±2.5 2.1
C614	194.3 ±2.1
E614	217 ±2.1
L614	244.4 ±2.1

Table to be replaced by table given page 21 bis.

4.5.5 Traceability Information

Each component shall be marked in respect of traceability information in accordance with the requirements of ESCC Basic Specification No. 21700.

4.6 ELECTRICAL MEASUREMENTS

4.6.1 Electrical Measurements at Room Temperature

The parameters to be measured in respect of electrical characteristics are scheduled in Table 2. Unless otherwise specified, the measurements shall be performed at T_{amb} = +22 ±3°C.

4.6.2 Electrical Measurements at High and Low Temperatures (Table 3)

Not applicable.

4.6.3 Circuits for Electrical Measurements (Figure 4)

Not applicable.

4.7 BURN-IN AND ELECTRICAL MEASUREMENTS (TABLES 4 AND 5)

Not applicable.

Other codes.

Modification Code	Description
1A	Without nut
E5624	1A + E614
L5624	1A + L614

NEW COMPLETE TABLE to insert in page 21

Modification Code	Cable length (mm)
A614	134.3 +/- 2.1
B614	164.3 +/- 2.1
B864	188 +/- 2.1
C614	194.3 +/- 2.1
D614	204.7 +/- 2.1
E614	217 +/- 2.1
F614	230 +/- 2.1
G614	144.4 +/- 2.1
H614	94.4 +/- 2.1
K614	124.8 +/- 2.1
L614	244.4 +/- 2.1
M614	494.4 +/- 2.1
N614	98.7 +/- 2.1
P614	294.4 +/- 2.1
Q614	190.4 +/- 2.1
R614	109 +/- 2.1
S614	153.6 +/- 2.1
T614	75.4 +/- 2.1
U614	118.82 +/- 2.1
V614	87.1 +/- 2.1
W614	384.9 +/- 2.1
X614	171 +/- 2.1
Y614	238 +/- 2.1