 AEROSPATIALE NORMALISATION GENERALE	NORME D'ETUDES	ASNE0198
	CONNECTORS, CIRCULAR CONTACT ARRANGEMENTS POLARIZATION CONTACT LAYOUTS ORIENTATION OF POLARIZATION KEYS OR KEYWAYS	Issue : F Date : 09.98

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1 FIELD OF APPLICATION

This ASN defines contact arrangements used for the connectors taken from standard MIL-C-83723. This ASN also defines the polarization of the above-mentioned connectors.
This document shall be used in conjunction with the ASN standards listed in section 2, it shall not be used as a part number.




2 NORMATIVE REFERENCES

ASNE0186	Connector - Plug, bayonet coupling, MIL-C-83723 series III.
ASNE0187	Connector - Receptacle, bayonet-coupling, square flange, MIL-C-83723 series III.
ASNE0195	Circular connectors, screw coupling - Fire resistance plugs (not to be used for new design studies as of September 94, see EN 2997-008)
ASNE0197	MIL-C-83723 Connectors, screw coupling type - Series III Class K - Fire-resistant - Square flange receptacles (not to be used for new design studies as of September 94, see EN 2997-003)
ASNE0320	Circular connectors, screw coupling plugs (not to be used for new design studies as of September 94, see EN 2997-008)
ASNE0321	Circular connectors, screw coupling, round flange receptacles (not to be used for new design studies as of September 94, see EN 2997-004)
ASNE0322	Circular connectors, screw coupling, square flange receptacles (not to be used for new design studies as of September 94, see EN 2997-003)
ASNE0441	Connector to prEN 2997 - 260 °C cyclic - Fire resistant with self-locking thread coupling
ASNE0442	Connector to prEN 2997 - 260 °C cyclic - Fire resistant, self-locking thread coupling and R.F.I grounding
ASNE0444	Connector to prEN 2997 - 260 °C cyclic, square flange receptacle, fire resistant, notch continuous
ASNE0451	Connector to prEN 2997 - 200 °C plug with self-locking thread coupling
ASNE0452	Connector to prEN 2997 - 200 °C plug with self-locking thread coupling and R.F.I grounding
ASNE0454	Connector to prEN 2997 - 200 °C square flange receptacle, notch continuous

Documents to be consulted at the latest issue in effect.

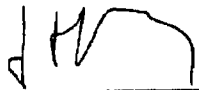
3 DEFINITIONS, TERMINOLOGY, SYMBOLS, ABBREVIATIONS

Symbols for the size and type of contacts

		
#12 power	#16 power	#20 power

Keywords: Connector (TC) - Contact arrangement (TC).

1) See page 8

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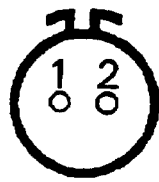
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4 REQUIRED CHARACTERISTICS

4.1 Dimensions, contact arrangements

The diagrams hereinafter show the front face (coupling side) of inserts for sockets using each of the various possible contact arrangements. The front face of inserts for pins is symmetrical with respect to the vertical centerline through the main key or keyway represented by the symbol.

SHELL SIZE AND CONTACT ARRANGEMENT



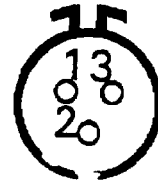
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2 CONTACTS # 20



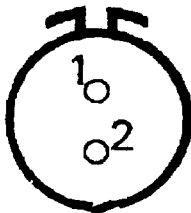
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3 CONTACTS # 20



08-98

3 CONTACTS # 20



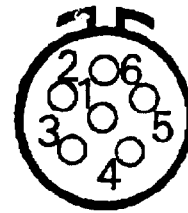
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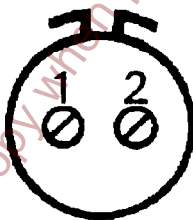
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5 CONTACTS # 20



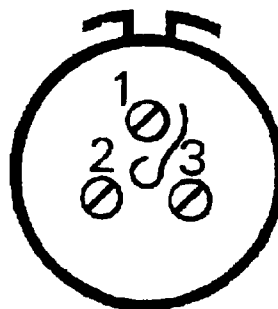
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6 CONTACTS # 20



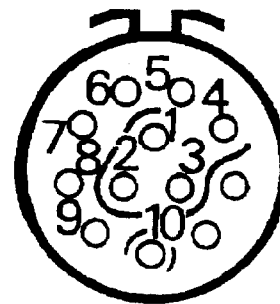
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2 CONTACTS # 16



12-03

3 CONTACTS # 16



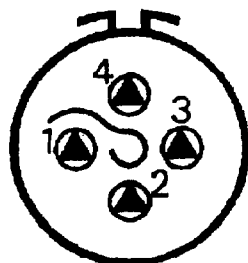
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12 CONTACTS # 20

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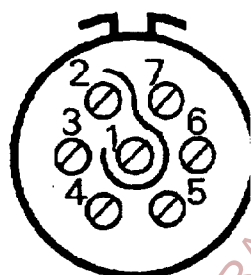
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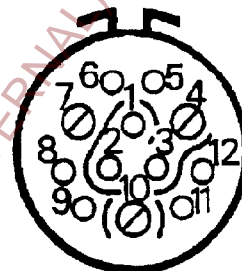
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4 CONTACTS #¹⁾ 12



14-07

7 CONTACTS # 16



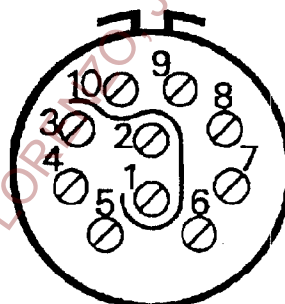
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9 CONTACTS # 20
3 CONTACTS # 16



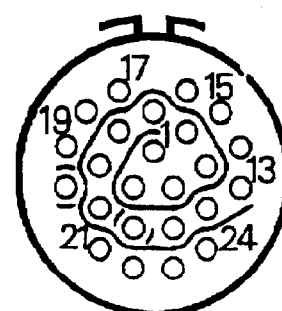
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15 CONTACTS # 20



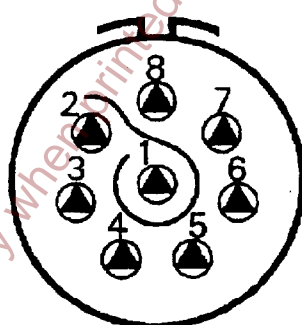
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10 CONTACTS # 16



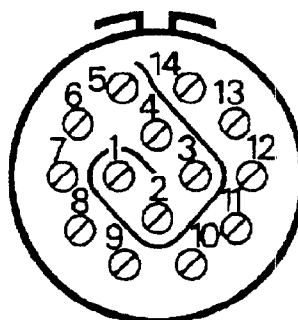
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24 CONTACTS # 20



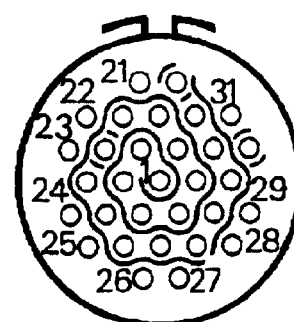
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8 CONTACTS # 12



18-14

14 CONTACTS # 16

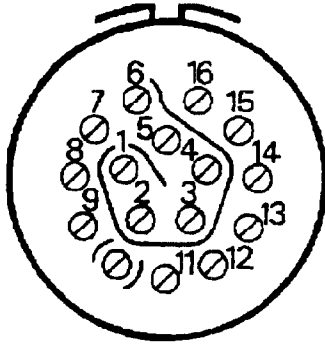


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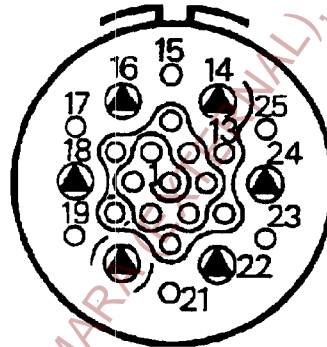
1) See page 8

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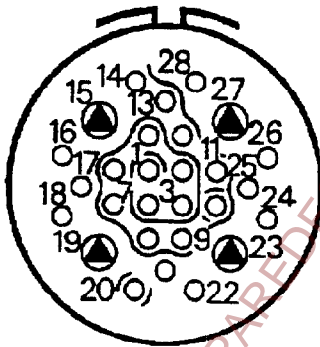
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16 CONTACTS #¹⁾ 16



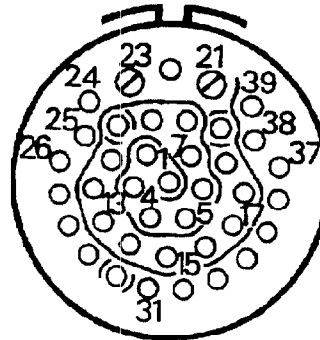
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19 CONTACTS # 20
6 CONTACTS # 12



20-28

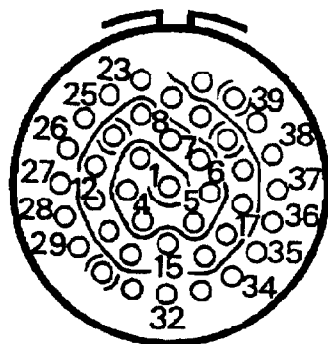
24 CONTACTS # 20
4 CONTACTS # 12



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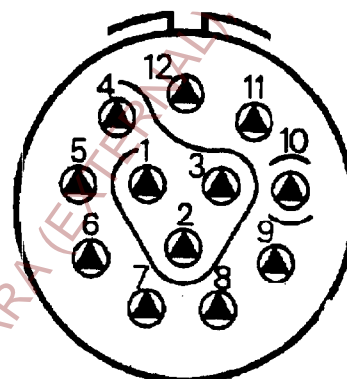
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2 CONTACTS # 16

1) See page 8



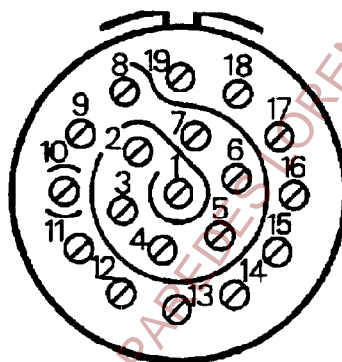
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41 CONTACTS # 20



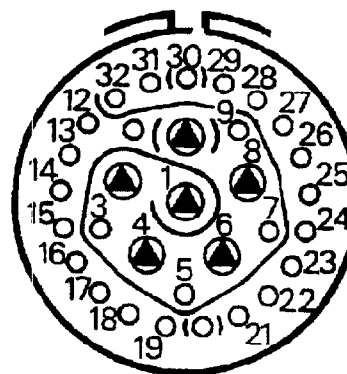
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12 CONTACTS # 12



22-19

19 CONTACTS # 16



22-32

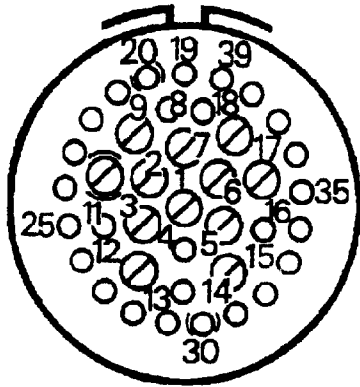
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6 CONTACTS # 12

1) See page 8

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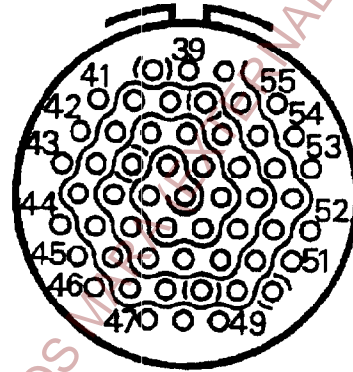
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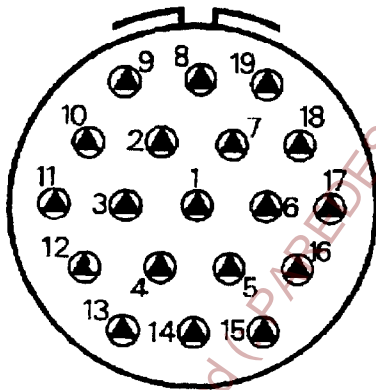
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27 CONTACTS # 20
12 CONTACTS # 16



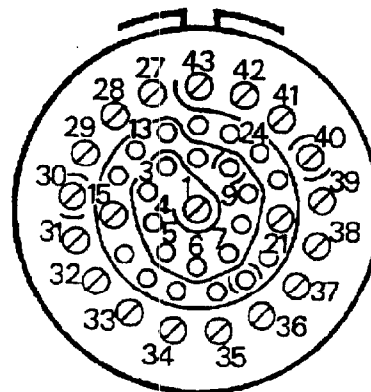
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55 CONTACTS #¹⁾ 20



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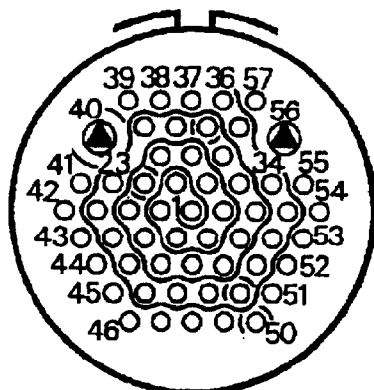
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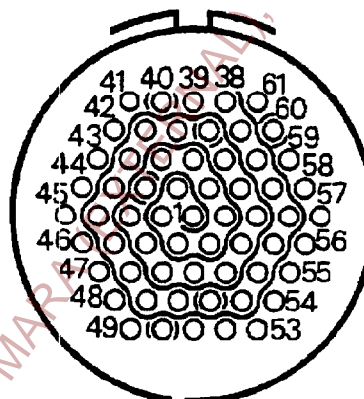
23 CONTACTS # 20
20 CONTACTS # 16

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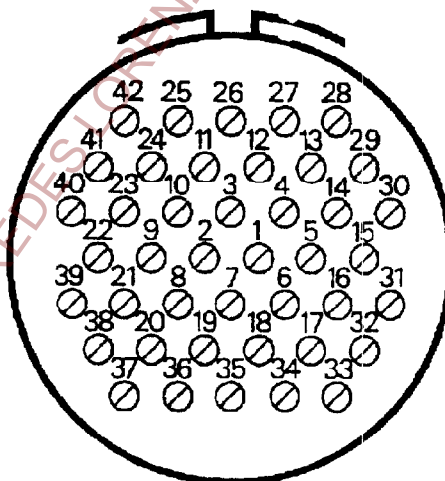
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55 CONTACTS # 20
2 CONTACTS # 12



24-61

61 CONTACTS # 1) 20



28-42

42 CONTACTS # 16

1) See page 8

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TABLE 1

SHELL SIZES	CONTACT ARRANGEMENTS	NUMBER AND SIZE OF CONTACTS		
		# ¹⁾ 12	# 16	# 20
08	02			2
	03			3
	98			3
10	02			2
	05			5
	06			8
	20		2	
12	03		3	
	12			12
14	04	4		
	07		7	
	12		3	9
	15			15
16	10		10	
	24			24
18	08	8		
	14		14	
	31			31
20	16		16	
	25	6		19
	28	4		24
	39		2	37
	41			41
22	12	12		
	19		19	
	32	6		26
	39		12	27
	55			55
24	19	19		
	43		20	23
	57	2		55
	61			61
28	42		42	

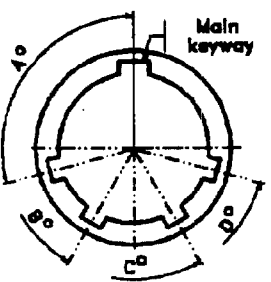
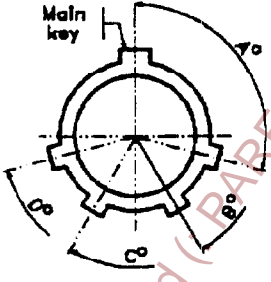
1) # Symbol for the size of contacts.

4.2 Orientation of polarization main keys or keyways

The table below gives the various possible polarization orientations and their corresponding polarization code.

The inserts are oriented with respect to the centreline of the main key or keyway as shown in section 1.

TABLE 2

Orientation diagram	Shell number	Polarization mark	Angular values (degrees)			
			A°	B°	C°	D°
 <p>RECEPTACLE - FRONT VIEW</p>  <p>PLUG - FRONT VIEW</p>	08 to 28	N ¹⁾	105	140	215	265
	08	6	102	132	248	320
		7	80	118	230	312
		8	35	140	205	275
		9	64	155	234	304
	10	6	102	132	248	320
		7	80	118	230	312
		8	35	140	205	275
		9	64	155	234	304
		Y	25	115	220	270
	12, 14 16, 18 20, 22 and 24	6	18	149	192	259
		7	92	152	222	342
		8	84	152	204	334
		9	24	135	199	240
		Y	98	152	268	338

1) "Normal" polarization.

5 TECHNICAL SPECIFICATIONS

MIL-STD 1554 (polarization)

MIL-C-83723

RECORD OF REVISIONS