

Description



The 8526 Series is qualified to MIL-C-26482 Series 2 and designed to meet the performance criteria of MIL-C-83723 Series I.

In 1975, the Department of Defense inactivated MIL-C-83723 Series I in favor of MIL-C-26482 Series 2, because both series are identical. For this reason, the connectors are marked with both military numbers where applicable.

The 8526 Series connectors feature a rear insertion/rear removal contact retention system. The contacts are qualified to MIL-C-39029/4 and /5.

Both the pin and socket contacts are gold-plated copper alloy and are crimped with a standard crimp tool per MIL-T-22520. The contacts are installed and removed by use of a plastic tool per MIL-I-81969/14.

The interface design of the connectors features a closed-entry, chamfered lead-in on the hard-faced socket side and silicone-elastomer with raised barriers on the pin side. When properly mated, the raised barriers of the pin side displace into the socket chamfer, thus providing a positive moisture barrier between the contacts.

The sealing grommets are made from silicone elastomers.

The connector shells of non-hermetic connectors are made of aluminum and are available in either electroless nickel or cadmium O.D. finishes. The shells of hermetic connectors are made of cold rolled steel with tin plate over nickel finish. Hermetic contacts are ferrous alloy with gold over nickel finish.

Alternate insert positions, as allowed by the military specification, are available.

Ordering Information

MIL-C-26482 Series 2

MS34 70 L 22 - 55 P W

Basic Military Designation

Shell Style

70 = Square Flange Receptacle

74 = Jam Nut Receptacle

75 = Plug/RFI

76 = Plug, Standard

40 = Square Flange Hermetic Receptacle

43 = Solder Mount Hermetic Receptacle

49 = Jam Nut Hermetic Receptacle

Class

L = Nickel Finish (Conductive) 200° C

W = Olive Drab Cadmium Finish (Conductive) 175° C

H = Hermetic

Shell Size

Insert Arrangement

Contact Designation

P = Pins, S = Sockets

Alternate Insert Clocking Positions

W, X, Y & Z

MIL-C-83723 Series I

M83723 / 02 R 22 55 N

Military Number Prefix**Military Slash Sheet**

- 01 = Receptacle, Narrow Flange MTG., Socket Contacts
- 02 = Receptacle, Narrow Flange MTG., Pin Contacts
- 05 = Receptacle, Single Hole MTG., Socket Contacts
- 06 = Receptacle, Single Hole MTG., Pin Contacts
- 09H = Square Flange, Hermetic, Pin Contacts
- 11H = Solder Flange, Hermetic, Pin Contacts
- 12H = Jam Nut, Hermetic, Pin Contacts
- 13 = Plug, Standard, Socket Contacts
- 14 = Plug, Standard, Pin Contacts
- 42 = Plug, RFI Grounding, Pin Contacts
- 43 = Plug, RFI Grounding, Socket Contacts

Class Connector (R, G & H)**Shell Size****Insert Arrangement****Alternate Insert Polarizing Position**

N = Normal W, X, Y or Z = Alternate Polarizing Position

8526 Series

8526 - 0 L 22 55 P W - XX

Basic Series**Shell Style**

- 0 = Square Flange Receptacle
- 7 = Jam Nut Receptacle
- 5 = Plug/RFI
- 6 = Plug
- 1 = Solder Mount Hermetic Receptacle
- 2 = Square Flange Hermetic Receptacle
- 7 = Jam Nut Hermetic Receptacle

Class

- L = Nickel Finish (Conductive) 200° C
- W = Olive Drab Cadmium Finish (Conductive) 200° C
- H = Hermetic Tin over Nickel

Shell Size**Insert Arrangement****Contact Designation**

P = Pins, S = Sockets

Insert Position

N (Normal), W, X, Y & Z

Souriau Modification Code
MIL-C-26482 SERIES 2

1-58

8526-5 Plug with RFI Fingers/8526-6 Plug

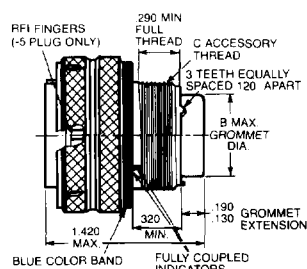
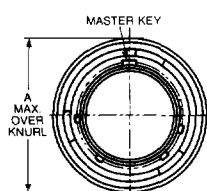
MS3475/MS3476

MIL-C-83723/42

MIL-C-83723/43

MIL-C-83723/13

MIL-C-83723/14



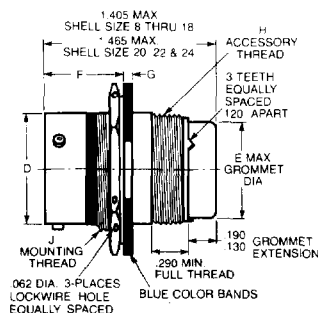
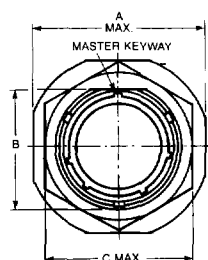
Shell Size	A	B	C Accessory Thread
8	0.782	0.305	1/2-20 UNF-2A
10	0.926	0.405	5/8-24 UNEF-2A
12	1.043	0.531	3/4-20 UNEF-2A
14	1.183	0.665	7/8-20 UNEF-2A
16	1.305	0.790	1-20 UNEF-2A
18	1.391	0.869	1-1/16-18 UNEF-2A
20	1.531	0.994	1-3/16-18 UNEF-2A
22	1.656	1.119	1-5/16-18 UNEF-2A
24	1.777	1.244	1-7/16-18 UNEF-2A

8526-7 Jam Nut Mount Receptacle

MS3474

MIL-C-83723/5

MIL-C-83723/6



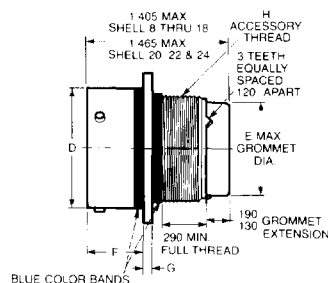
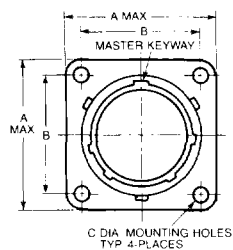
Shell Size	A	B (0.01)	C	D ± 0.06 0.00	I	L	G	H Accessory Thread	J Mounting Thread
8	0.954	0.525	0.767	0.468	0.305	—	—	1/2-20 UNF-2A	9/16-24 UNEF-2A
10	1.078	0.650	0.892	0.585	0.405	—	—	5/8-24 UNEF-2A	11/16-24 UNEF-2A
12	1.266	0.813	1.079	0.745	0.531	.707	.113	3/4-20 UNEF-2A	7/8-20 UNEF-2A
14	1.391	0.937	1.205	0.870	0.665	.658	.086	7/8-20 UNEF-2A	1-20 UNEF-2A
16	1.516	1.061	1.329	0.995	0.790	—	—	1-20 UNEF-2A	1-1/8-18 UNEF-2A
18	1.641	1.186	1.455	1.120	0.869	—	—	1-1/16-18 UNEF-2A	1-1/4-18 UNEF-2A
20	1.828	1.311	1.579	1.245	0.994	—	—	1-3/16-18 UNEF-2A	1-3/8-18 UNEF-2A
22	1.954	1.436	1.705	1.370	1.119	.772	.148	1-5/16-18 UNEF-2A	1-1/2-18 UNEF-2A
24	2.078	1.561	1.829	1.495	1.244	.721	.096	1-7/16-18 UNEF-2A	1-5/8-18 UNEF-2A

8526-0 Square Flange Receptacle

MS3470

MIL-C-83723/1

MIL-C-83723/2

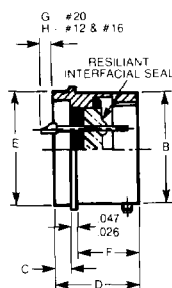
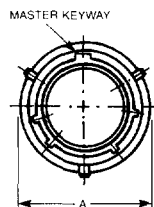


Shell Size	A	B + .001 - .005	C + .005 - .005	D + .006 - .000	E + .001 - .005	F + .031 - .000	G + .016 - .000	H Accessory Thread
8	.828	.594	.120	.468	.305	.431	.062	1/2-20 UNF
10	.954	.719	.120	.585	.405	.431	.062	5/8-24 UNEF
12	1.047	.812	.120	.745	.531	.431	.062	3/4-20 UNEF
14	1.141	.906	.120	.870	.665	.431	.062	7/8-20 UNEF
16	1.234	.969	.120	.995	.790	.431	.062	1-20 UNEF
18	1.328	1.062	.120	1.120	.859	.431	.062	1-1/16-18 UNEF
20	1.453	1.156	.120	1.245	.994	.556	.094	1-3/16-18 UNEF
22	1.578	1.250	.120	1.370	1.119	.556	.094	1-5/16-18 UNEF
24	1.703	1.375	.147	1.495	1.244	.589	.094	1-7/16-18 UNEF

8526-1H Solder Mount Hermetic Receptacle

MS3443

MIL-C-83723/11



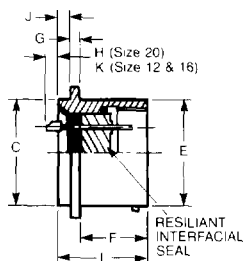
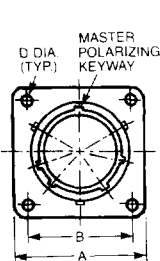
Shell Size	A + .010 - .010	B + .001 - .005	C + .000 - .040	D Max	E + .001 - .005	F + .001 - .005	G + .030 - .000	H + .030 - .000
8	.625	.473	.156	.801	.562	—	.148	.218
10	.750	.590	.156	.801	.672	—	.148	.218
12	.844	.750	.156	.801	.781	.598	.148	.218
14	.969	.875	.156	.801	.906	.578	.148	.218
16	1.094	1.000	.156	.801	1.031	—	.148	.218
18	1.218	1.125	.156	.801	1.156	—	.148	.218
20	1.312	1.250	.156	.863	1.250	.660/.640	.148	.218
22	1.438	1.375	.188	.895	1.375	.660/.640	.116	.186
24	1.564	1.500	.188	.895	1.500	.660/.640	.116	.186

MIL-C-26482 SERIES 2

1-60

8526-2H Square Flange Hermetic Receptacle

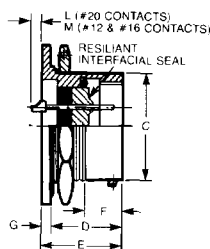
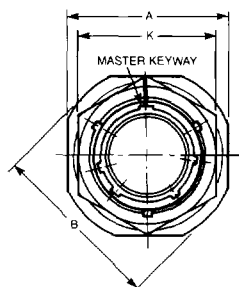
MS3440
MIL-C-83723/9



Shell Size	A Max	B + .0015	C + .001 .005	D .005	I + .001 .005	I .010	G .016	H .030	I .010	K .030	L Max (Ref.)
8	0.828	0.594	0.562	.120	0.473	.588	.062	.148	.115	.218	.801
10	0.954	0.719	0.672	.120	0.590	.588	.062	.148	.115	.218	.801
12	1.047	0.812	0.781	.120	0.750	.588	.062	.148	.115	.218	.801
14	1.141	0.906	0.906	.120	0.875	.588	.062	.148	.115	.218	.801
16	1.234	0.969	1.031	.120	1.000	.588	.062	.148	.115	.218	.801
18	1.328	1.062	1.156	.120	1.125	.588	.062	.148	.115	.218	.801
20	1.435	1.156	1.250	.120	1.250	.650	.094	.148	.083	.218	.863
22	1.578	1.250	1.375	.120	1.375	.650	.094	.116	.115	.186	.895
24	1.703	1.375	1.500	.147	1.500	.650	.094	.116	.115	.186	.895

8526-7H Jam Nut Hermetic Receptacle

MS3449
MIL-C-83723/12

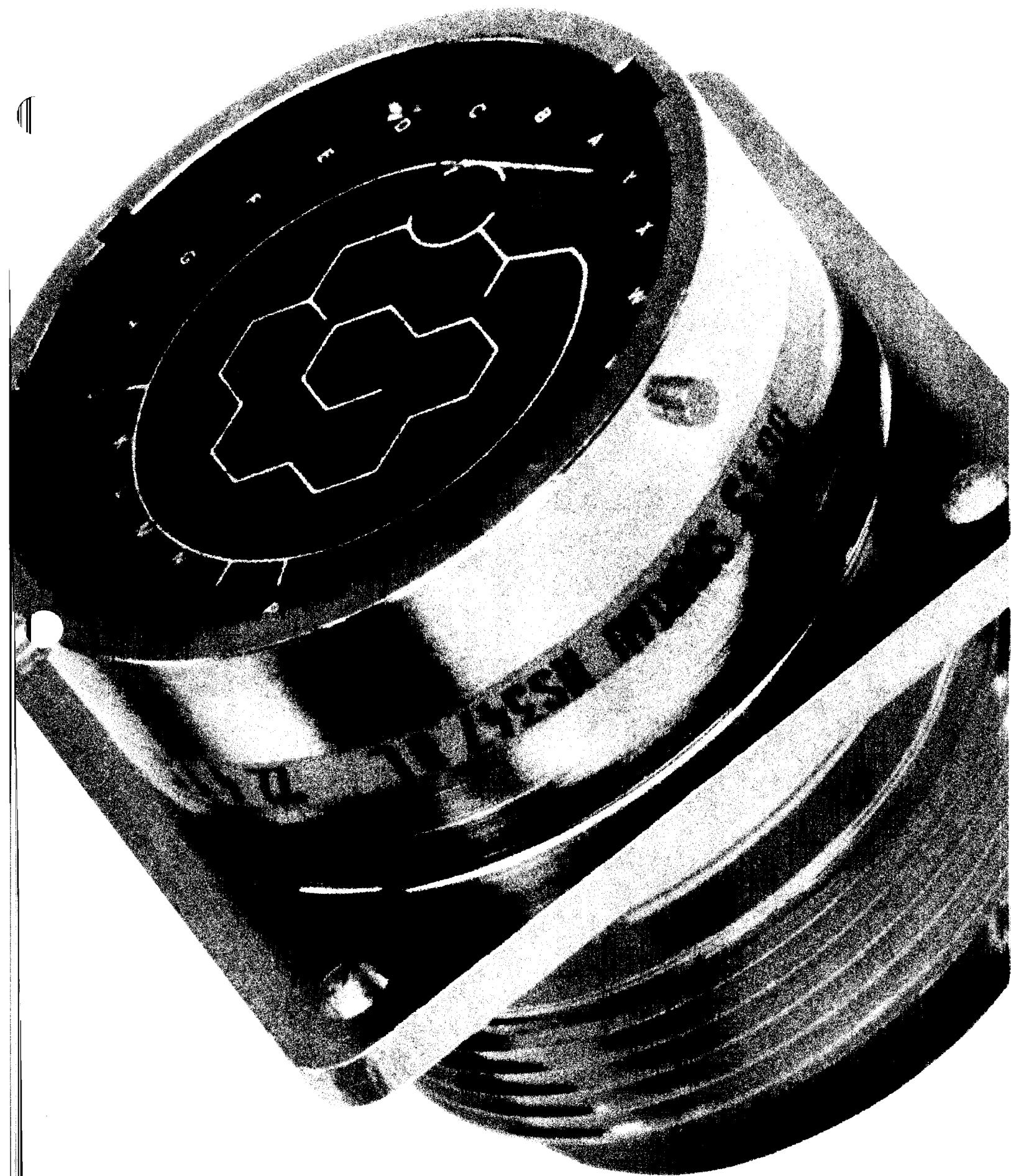


Shell Size	A + .015 .015	B + .0115 .015	C + .001 .005	D .008	I Max	I .010	G .010	K Max	I .030	M .030
8	0.938	1.062	0.473	.699	.820	.368	.105	0.767	.104	.174
10	1.062	1.187	0.590	.699	.820	.368	.105	0.892	.104	.174
12	1.250	1.375	0.750	.699	.820	.368	.105	1.079	.104	.174
14	1.375	1.500	0.875	.699	.820	.368	.105	1.205	.104	.174
16	1.500	1.625	1.000	.699	.820	.368	.105	1.329	.104	.174
18	1.625	1.750	1.125	.699	.820	.368	.105	1.455	.104	.174
20	1.812	1.938	1.250	.762	.920	.368	.138	1.579	.069	.139
22	1.938	2.062	1.375	.762	.920	.368	.138	1.705	.069	.139
24	2.062	2.185	1.500	.795	.951	.395	.138	1.829	.069	.109

Connector Series Cross Reference

Description	Contact Style	M83723 Series I	MIL-C-26482 Series 2	Burndy Series	Matrix Series	Deutsch Series
Square Flange Receptacle	Socket	M83723/01***	MS3470***S	8526-0***S	MB10***S	AFD50***S
	Pin	M83723/02***	MS3470***P	8526-0***P	MB10***P	AFD50***P
Jam Nut Receptacle	Socket	M83723/05***	MS3474***S	8526-7***S	MB14***S	AFD54***S
	Pin	M83723/06***	MS3474***P	8526-7***P	MB14***P	AFD54***P
Square Flange, Hermetic	Pin	M83723/09H***	MS3440H***P	8526-2H***P	MB10H***P	DBC50H***P
Solder Flange, Hermetic	Pin	M83723/11H***	MS3443H***P	8526-1H***P	MB15H***P	DBC53H***P
Jam Nut, Hermetic	Pin	M83723/12H***	MS3449H***P	8526-7H***P	MB14H***P	DBC54H***P
Plug, RFI	Socket	M83723/43***	MS3475***S	8526-5***S	MB18***S	AFD57***S
	Pin	M83723/42***	MS3475***P	8526-5***P	MB18***P	AFD57***P
Plug	Socket	M83723/13***	MS3476***S	8526-6***S	MB16***S	AFD56***S
	Pin	M83723/14***	MS3476***P	8526-6***P	MB16***P	AFD56***P

***Refer to page 57 for complete Souriau part number.



MIL-C-26482 SERIES 2

Insert Arrangements

08

8-33
3 no. 20



8-3A*
3 no. 20



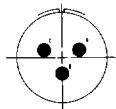
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6 no. 20

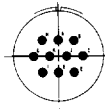


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3 no. 16

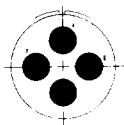


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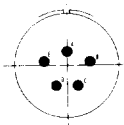


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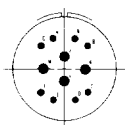
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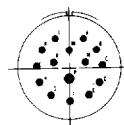
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5 no. 16



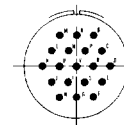
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4 no. 16
8 no. 20



14-15
1 no. 16
14 no. 20

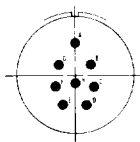


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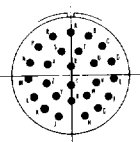


16

16-8
8 no. 16

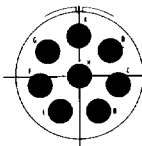


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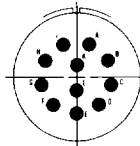


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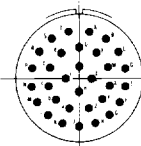
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8 no. 12



18-11
11 no. 16



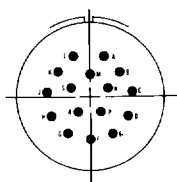
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32 no. 20



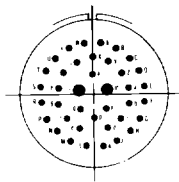
Insert Arrangements

20

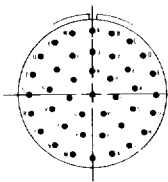
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16 no. 16



20-39
2 no. 16
37 no. 20

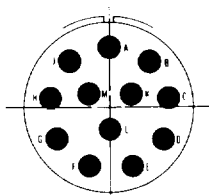


20-41
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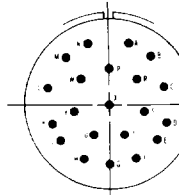


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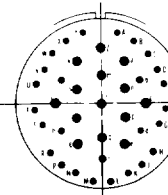
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12 no. 12



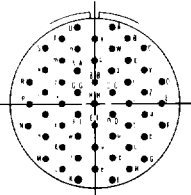
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21 no. 16



22-41
14 no. 16
27 no. 20

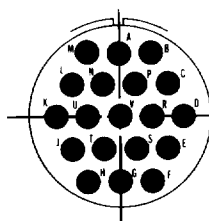


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55 no. 20

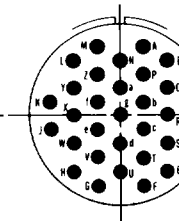


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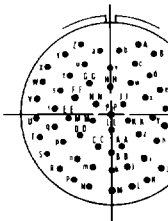
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19 no. 12



24-31
31 no. 16



24-61
61 no. 20



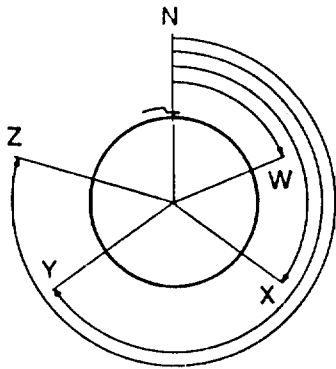
NOTES: 1. For Other Insert Arrangements Consult Factory.
2. Cavity Identification Shown Here is for Pin Insert Face (Socket Opposite) and is for Reference Only. Actual Insert Marking Shall be in Accordance With MIL-STD-1669.
*Available only as a commercial part.

MIL-C-26482 SERIES 2

1-64

MIL-C-26482 SERIES 2

Polarizations
Insulator rotated inside shell

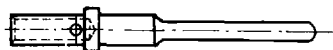


Viewed from front face of male insulator

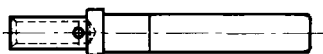
Shell Size	Contact designation	Shell size	Polarization	Number of contacts			Pin dimensions				
				size 2 0.1	size 1b 0.10	size 12 0.24	N	M	X	Y	Z
8	8-33	X		3			0	90	—	—	—
	8-98	X		3			0	—	—	—	—
10	10-6	X		6			0	90	—	—	—
12	12-10	X		10			0	60	155	270	295
	12-3		X		3		0	—	—	180	—
14	14-19	X		19			0	30	165	315	—
	14-15	X		14	1		0	17	110	155	234
	14-12	X		8	4		0	43	90	—	—
	14-5		X		5		0	40	92	184	273
	14-4	X				4	0	45	—	—	—
16	16-26	X		26			0	60	—	275	338
	16-8		X		8		0	54	152	180	331
18	18-32	X		32			0	85	138	222	265
	18-11		X		11		0	62	119	241	340
	18-8	X				8	0	180	—	—	—
20	20-41	X		41			0	45	126	225	—
	20-39	X		37	2		0	63	144	252	333
	20-16		X		16		0	238	318	333	347
22	22-55	X		55			0	30	142	226	314
	22-41	X		27	14		0	39	135	264	—
	22-21		X		21		0	16	135	175	349
	22-12	X				12	0	—	—	—	—
24	24-61	X		61			0	90	180	270	324
	24-31	X			31		0	90	225	255	—
	24-19		X			19	0	30	165	315	—

MIL-C-26482 SERIES 2

Contacts

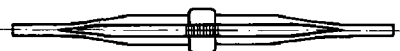


Military Part Number	Superseded Military Part No	Size	Color Bands First	Second	Third
M39029/4-110	M39029/4-20-20	20	Brown	Brown	Black
M39029/4-111	M39029/4-16-16	16	Brown	Brown	Brown
M39029/4-113	M39029/4-12-12	12	Brown	Brown	Orange



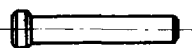
Military Part Number	Superseded Military Part No	Size	Color Bands First	Second	Third
M39029/5-115	M39029/5-20-20	20	Brown	Brown	Green
M39029/5-116	M39029/5-16-16	16	Brown	Brown	Blue
M39029/5-118	M39029/5-12-12	12	Brown	Brown	Gray

Insertion Removal Tool



Size	Souriau Part Number	Military Part Number
20	8522-20	M81969/14-02
16	8522-16	M81969/14-03
12	8522-12	M81969/14-04

Sealing Plugs



Size	Souriau Part Number	Military Part Number
20	8526-3937	MS27488A20
16	8526-3938	MS27488A16
12	8526-3939	MS27488A12