

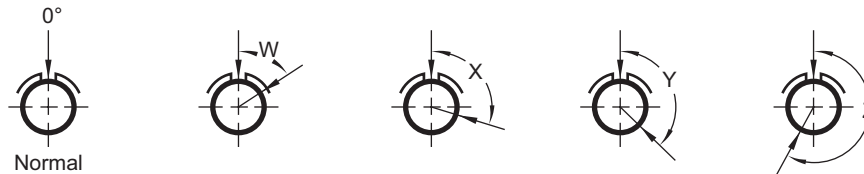
# MIL-DTL-26482 SERIES 1 & 2

# MIL-DTL-83723 SERIES I

## INSERT CONFIGURATIONS BY SHELL SIZE

### ALTERNATE POSITIONS

The diagrams indicate alternate insert positions. The four positions (W, X, Y, and Z) differ in degree of rotation for various sizes and layouts. The exact angle of rotation for the combinations is listed on the table below.



INSERT NUMBER	NUMBER OF CONTACTS					ALTERNATE POSITIONS (DEGREES)				INSERT	REMARKS
	TOTAL	20	16	12	8	W	X	Y	Z		
6-1	1	1				-	-	-	-		
(• 8-2)	2	2				58	122	-	-	MS33708*	
(• 8-3)	3	3				60	210	-	-	MS33708-3*	
8-3A	3	3				60	210	-	-		
(• 8-4)	4	4				45	-	-	-	MS33708-4*	
• 8-33	3	3				90	-	-	-	MS33708	
8-60	3	3				-	-	-	-	8-3	Thermocouple 1-IR, 1-CON, 1-CU
8-61	4	4				-	-	-	-	8-4	Thermocouple 1-IR, 1-CON, 2-CU
8-62	2	2				-	-	-	-	8-2	Thermocouple 1-CH, 1-CON
8-63	4	4				-	-	-	-	8-4	Thermocouple 1-CH, 1 AL, 2-CU
8-80	4	4				-	-	-	-	8-4	Thermocouple 2-AL, 2-CH
8-82	2	2				-	-	-	-	8-2	Thermocouple 1-AL, 1-CH
8-83	3	3				-	-	-	-	8-3	Thermocouple 1-AL, 1-CH
8-84	4	4				-	-	-	-	8-4	Thermocouple 2-IR, 2-CON
8-85	2	2				-	-	-	-	8-2	Thermocouple
8-86	4	4				-	-	-	-	8-4	Thermocouple 2-CH, 2-CON
8-87	3	3				-	-	-	-	8-3	Thermocouple 1-CON
8-88	4	4				-	-	-	-	8-4	Thermocouple 2-CON
8-89	3	3				-	-	-	-	8-3	Thermocouple 1-CH1 -CON
8-96	4	4				-	-	-	-	8-4	Thermocouple
• 8-98	3	3				-	-	-	-	MS33708-98	
10-1	1					-	-	-	-		1 No. 8 Coax
10-2	2		2			45	90	315	-		
10-5	5	5				45	151	180	270		
• 10-6	6	6				90	-	-	-	MS33709-6	
10-7	7	7				-	-	-	-	10-99	Alternate position of 10-99
10-70	1					-	-	-	-		1 Coax
10-71	4	3				-	-	-	-		+ 1 No. 12 Coax for RG188/U and RG196/2L
10-72	1					-	-	-	-	10-70	1 Coax
10-80	6	6				-	-	-	-	10-6	Thermocouple 1-AL, 1-CH
10-81	6	6				-	-	-	-	10-6	Thermocouple 3-AL, 3-CH
10-82	6	6				-	-	-	-	10-6	Thermocouple 1 EA.-AL, CH, IR, CON
10-83	6	6				-	-	-	-	10-6	Thermocouple 1-AL, 1-CH
10-85	6	6				-	-	-	-	10-6	Thermocouple 2-AL, 2-CH
• 10-98	6	6				90	180	240	270	MS33709-98	
10-99	7	7				90	-	-	-		
• 12-3	3		3			-	-	180	-	MS33710-3	
12A3	2		2			-	-	-	-		
12-4	4		4			38	-	-	-		
12-6	6	6				-	-	-	-		
• 12-8	8	8				90	112	203	292	MS33710-3	
• 12-10	10	10				60	155	270	295	MS33710-10	
12-14*	14	14				-	-	-	-		
12-80	10	10				-	-	-	-	12-10	Thermocouple 5-AL, 5-CH
12-81	10	10				-	-	-	-	12-10	Thermocouple 5-AL, 5-CH
12-84	10	10				-	-	-	-	12-10	Thermocouple
12-85	10	10				-	-	-	-	12-10	Thermocouple 5-IR, 5-CON

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( ) Indicates insert is inactive for new design.

\* Used in MIL-C-55243 connectors.

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# SERIES 1 & 2 MIL-DTL-26482

## SERIES I MIL-DTL-83723

### INSERT CONFIGURATIONS BY SHELL SIZE

CONTINUED FROM PREVIOUS PAGE

INSERT NUMBER	NUMBER OF CONTACTS					ALTERNATE POSITIONS (DEGREES)				INSERT	REMARKS
	TOTAL	20	16	12	8	W	X	Y	Z		
12-87 12-88 12-89 12-98 14-2	8 10 10 10 2	8 10 10 10								12-8 12-10 12-10	Thermocouple 1-AL, 1-CH Thermocouple 1-AL, 1-CH Thermocouple 2-CON
* 14-4 * 14-5 14-8 * 14-9 * 14-12	4 5 8 9 12		5	4		45 40 48 15 43	— 92 162 90 90	— 184 189 180 —	— 273 312 240 —	MS33711-4 MS33711-5  MS33711-9 MS33711-12	
* 14-15 14-16 * 14-18 * 14-19 * 14-22	15 4 18 19 5	14 — 18 19 1	1 2	2		17 35 15 30 45	110 — 90 165 —	155 — 180 315 —	234 — 270 — —	MS33711-15  MS33711-18 MS33711-19 MS33711-22	
14-69 14-71 14-80 14-81 14-84 14-85	19 4 19 18 18 19	19 3 19 18 18 19				— — — — — —	— — — — — —	— — — — — —	— — — — — —	14-19  14-19 14-18 14-18 14-19	Thermocouple +1 Size 8 Coax for RG58C/U Thermocouple 9-AL, 10-CH Thermocouple 5-AL, 5-CH Thermocouple 9-AL, 9-CH Thermocouple 1-AL, 1-CH
14-87 14-91 14-97 16-5 16-6 * 16-8	19 3 12 5 6 8	19 3 8 5 — 8	4		6	— — — — — 54	60 — — — — 152	— — — — — 180	— — — — — 331	14-19  16-26 MS33712-8	Thermocouple 5-AL, 5-CH All high voltage  Omit all holes except S, T, Z, W, J
16-10 * 16-14 * 16-23 * 16-26 16-70	10 14 23 26 15	10 8 22 26 14	1	6		— 25 158 60 41	— 78 270 — 122	— 180 — 275 216	— 240 — 338 286	MS33712-14 MS33712-23 MS33712-26	+ 1 No. 12 Coax for RG178/U and RG196/U
16-80 16-81 16-83 16-84 16-88 16-89	26 26 26 26 26 26	26 26 26 26 26 26								16-26 16-26 16-26 16-26 16-26 16-26	Thermocouple 13-IR, 13-CON Thermocouple Thermocouple 12-CH, 12-CON Thermocouple 13-AL, 13-CH Thermocouple 1-AL, 1-CH Thermocouple 13-CON
* 16-95§ 16-97 * 16-99 16A99 18-5	8 5 23 23 5	6 — 21 21	2	5	2	25 45 66 66 55	90 — 156 156 97	153 — 223 223 263	— — 340 340 315	MS33712-95  MS33712-99	
18-7 * 18-8 * 18-11 18-14 18-28	7 8 11 14 28		7	8		22 — 62 53 49	— — 119 102 158	180 — 241 213 207	— — 340 293 329	MS33713 MS33713-11	

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§ Used in Series 1 connectors only.

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MIL-DTL-26482  
INSERT CONFIGURATIONS  
**9F**

# MIL-DTL-26482 SERIES 1 & 2

# MIL-DTL-83723 SERIES I

## INSERT CONFIGURATIONS BY SHELL SIZE

CONTINUED FROM PREVIOUS PAGE

INSERT NUMBER	NUMBER OF CONTACTS					ALTERNATE POSITIONS (DEGREES)				INSERT	REMARKS
	TOTAL	20	16	12	8	W	X	Y	Z		
18A28 • 18-30 • 18-32 18-71	28 30 32 9	26 29 32	2 1 8			180 85 18	193 138 108	285 222 127	350 265 215	MS33713-30 MS33713-32	+ 1 No. 8 Coax for RG180/U and RG195/U
18-72 18-75 18-76  18-80	14 4 4  8	10		3 4	1	53 45	102 -	213 -	293 -		+ 4 No. 12 Coax for RG178/U and RG196/U 4 No. 8 Coax for RG180/U and RG195/U 3 No. 12 Coax for RG188/U and 1 No. 8 Coax for RG195/U + 2 No. 8 Coax for RG180/U and RG195/U
18-82 18-84 • 18-85 • 18-88§ 18-90 18-91	32 11 13 8 3 6	32 5 4 3 6		11 8	4	- - 45 12 165 90	- - 90 45 320 180	- - 180 168 -	- - 240 202 -	18-32 18-11 MS33713-85 MS33713-88	Thermocouple Thermocouple 1-AL, 1-CH, 9-CU High Voltage High Voltage
18-92 20-3 20-4 20-8 20-9 • 20-16 20-18 • 20-24	4 39 41 8 8 16 16 24	4 37 41	2 8 7 16			- - 71 -	- - 155 -	- - 218 -	- -	20-39 20-41 MS33714-16 20-16 MS33714-24	High Voltage Thermocouple Thermocouple Thermocouple
20-25 20-26 • 20-27 • 20-39 • 20-41 20-70	25 26 27 39 41 14	25 20 27 37 41 10		6	2	72 13 72 63 45 63	144 107 144 144 126 135	216 210 216 252 225 220	288 322 288 333 -	MS33714-27 MS33714-39 MS33714-41	+4 No. 8 Coax For RG180/U and RG195/U
20-71 20-73 20-84 20-85 • 20-90	10 10 41 41 15	2 8 41 41 3				26	143	217	-	20-41 20-41	+8 No. 12 Coax for RG178/U and RG196 +2 No. 8 Coax for RG142/U 20-41 Thermocouple 3-AL, 3-CH 20-41 Thermocouple 1-AL, 1-CH
20-90 22-4 22-7 22-8 22-10	7 4 7 8	7 3				45 90 19 75	135 180 41 147	225 225 -	315 270 -	MS33714-90	High Voltage +1 High Voltage All No. 8 Coax for RG180/U and RG195/U
• 22-12 • 22-19 • 22-21 22-25 • 22-32	12 19 21 25 32			12 19		15 16 60 72	90 135 125 145	225 175 211 215	308 349 336 288	MS33715-12 MS33715-19 MS33715-21 MS33715-32	
• 22-34 22-36 22-37	34 36 37	34 36 31			6	62 72 90	142 144 180	218 216 270	298 288 -	MS33715-34	

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§ Used in Series 1 connectors only.

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# SERIES 1 & 2 MIL-DTL-26482 SERIES I MIL-DTL-83723 INSERT CONFIGURATIONS BY SHELL SIZE

CONTINUED FROM PREVIOUS PAGE

INSERT NUMBER	NUMBER OF CONTACTS					ALTERNATE POSITIONS (DEGREES)				INSERT	REMARKS
	TOTAL	20	16	12	8	W	X	Y	Z		
• 22-41 22A41 22-53	41 41 53	27 27 53	14 14			39 39 -	135 73 -	264 149 -	- 196 -	MS33715-41	
• 22-55 22-70 22-71	55 19 9	55 13 2				30 30 33	142 82 191	226 218 236	314 312 270	MS33715-55	+6 No. 8 Coax for RG180/U and RG195/U +7 No. 8 Coax for RG180/U and RG195/U
22-72 22-75 22-77	19 7 7	12	4			42 - -	200 - -	277 - -	339 - -		+3 No. 8 Coax for RG180/U and RG195/U 7 No. 8 Coax for RG188/U 7 No. 8 Coax for RG58/U
22-78  22-79  22-82 22-84 22-85 22-86 • 22-95	7  7  55 55 55 55 32	   55 55 55 55 26	       6	       6	       7	19  19  - - - - 26	41  41  - - - - 180	-  -  - - - - 266	-  -  22-55 22-55 22-55 22-55 -	MS33715-95	All No. 8 Coax for RG55A, RG58, RG122, RG141, RG142A, RG180, RG195, RG223 All No. 12 Coax for RG161, RG174, RG178, RG179, RG187, RG188, RG196 Thermocouple Thermocouple 27-AL, 27-CH Thermocouple 8-AL, 8-CH Thermocouple 12-AL, 12-CH
<del>• 22-96§</del> 22-97 22-99 24A2	<del>7</del> 16 11 8	<del>-</del>   1	<del>-</del> 16 11	<del>-</del>   19	<del>7</del>   7	19 19	41 93	- 205	- 341	MS33715-96	+7 Coax for RG195/U
24A4 24A8 24A9 • 24-19 24-25	8 8 8 19 25	1 1 1 9	   8	   8	   30	165	315	-	-	MS33716-19	+2 Coax for RG55/U and 5 for RG59/U +7 Coax for RG59/U and RG621/U +7 Coax for RG233/U
• 24-27 • 24-31 24A31 24-51 24A57 • 24-61	27 31 31 51 57 61	11  31 47 55 61	31 31	16  2	   45 90 90	110 225 225	140 255 -	225 - -	MS33716-27 MS33716-31	MS33716-61	+4 No. 12 Coax
24-71 24-72 24-79 24-80 24-81 24-82 24-83	49 6 61 61 61 61	45 1 61 61 61 61	2		39	131	205	181		MS33716-61	+2 No. 8 Coax for RG180/U and RG195/U  +5 No. 8 Coax for RG62/U Thermocouple 31-CON Thermocouple Thermocouple 9-AL, 9-CH Thermocouple 26-AL, 26-CH

Line 22-96 removed

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§ Used in Series 1 connectors only.

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### CONTACT RATINGS

CONTACT SIZE	RATED AMPS	MILLIVOLT DROP
20	7.5	25
16	22	21
12	35	20

### SERVICE RATINGS\*

SERVICE RATING	RECOMMENDED OPERATING VOLTAGE (SEA LEVEL)		TEST VOLTAGE AC RMS			CREEPAGE DISTANCE	MECHANIC SPACING
	DC	AC RMS	SEA LEVEL	50,000 FT	70,000 FT		
I	700	500	1500	500	375	200	3/32"
II	1250	900	2300	750	500	200	1/8"

\* SINCE THE DESIGN ENGINEER KNOWS WHAT TRANSIENTS, PEAK VOLTAGES, SWITCHING SURGES, ECT. CAN BE EXPECTED IN A PARTICULAR CIRCUIT, THE ESTABLISHMENT OF ELECTRICAL SAFETY FACTORS IS LEFT ENTIRELY IN HIS HANDS.