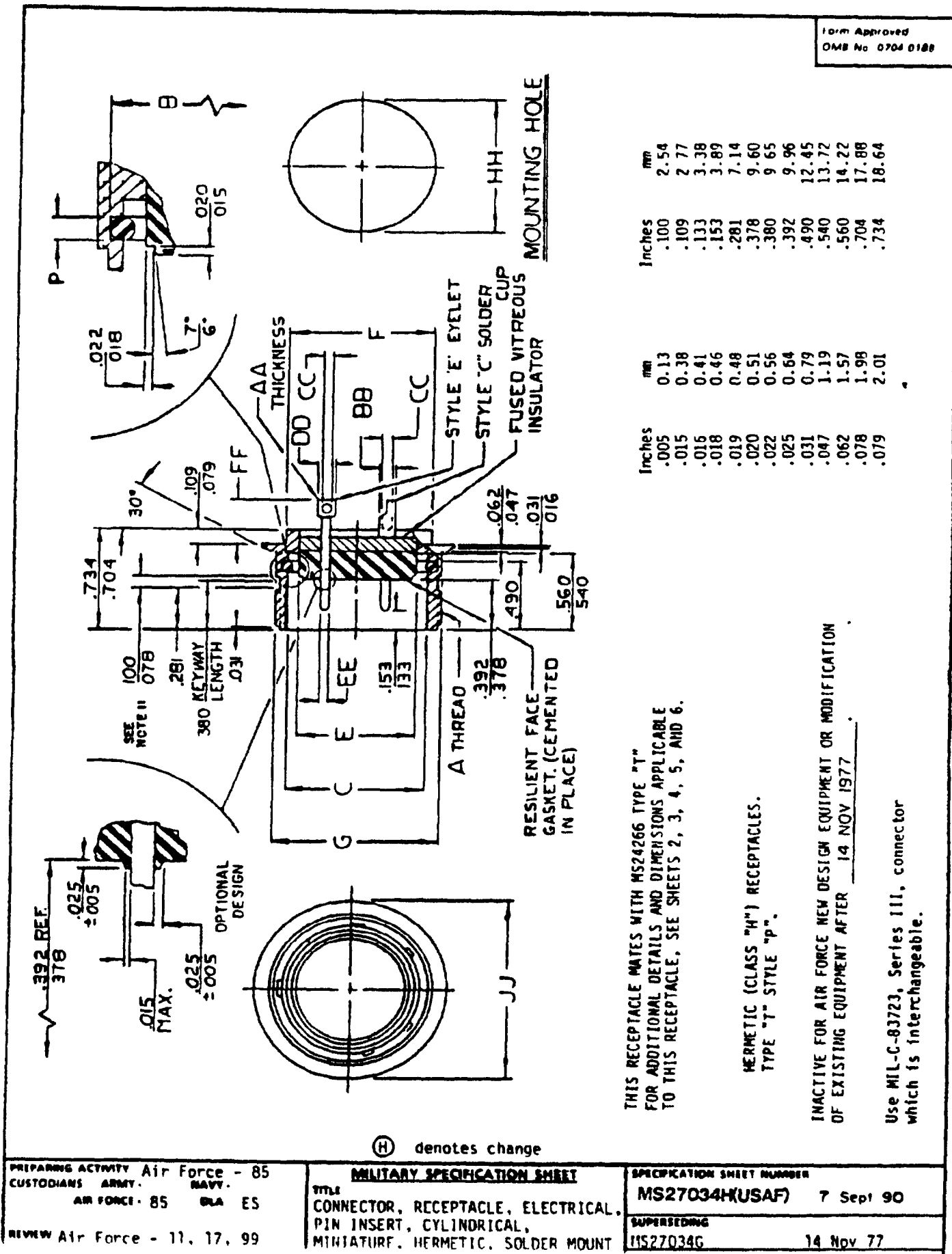


REVISIONS FOR USE BY all Departments  
and the Department of Defense

REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODSS SPECIFICATION SHEET  
MIL-C-26500



Form Approved  
OMB No 0704-0188

CAUTION - DO NOT FOR USE BY all Departments  
of the Department of Defense

THE DIMENSIONS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SHEET  
SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED  
THE SOLUTIONATION MIL-C-26500

Form Approved  
DMS No. 0704 0188

Shell Size	A CPLG UNEF-2A	B dia	C dia + .005 (0.13) - .000 (0.00)	E max dia insert (see note)	F max dia	G max dia	H dia + .010 (0.25) - .000 (0.00)	JJ flange dia + .020 (0.51)	KK + .000 (0.00) - .005 (0.13)	N + .000 (0.00) - .004 (0.10)	NM dia + .000 (0.00) - .003 (0.08)	P + .000 (0.00) - .005 (0.13)	UU + .000 (0.00) - .009 (0.23)
8	.562-24 (14.27)	.505 (12.83)	.428 (10.87)	.312 (7.92)	.437 (11.10)	.561 (14.25)	.442 (11.23)	.705 (17.91)	.536 (13.61)	.101 (2.55)	.078 (1.98)	.076 (1.93)	.310 (7.87)
10	.697-24 (17.45)	.636 (16.15)	.530 (13.46)	.388 (9.86)	.562 (14.27)	.696 (17.68)	.567 (14.40)	.840 (21.34)	.659 (16.84)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.374 (9.50)
12	.875-20 (22.22)	.806 (20.47)	.700 (17.78)	.558 (14.17)	.750 (19.05)	.875 (22.22)	.755 (19.18)	1.045 (26.54)	.829 (21.06)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.459 (11.65)
14	.937-20 (23.80)	.875 (22.23)	.769 (19.53)	.627 (15.93)	.812 (20.62)	.935 (23.80)	.817 (20.75)	1.090 (27.69)	.898 (22.81)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.494 (12.54)
16	1.062-18 (26.97)	1.002 (25.45)	.896 (22.76)	.754 (19.15)	.937 (23.80)	1.062 (26.97)	.942 (23.93)	1.210 (30.73)	1.025 (26.04)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.557 (14.14)
18	1.187-18 (30.15)	1.108 (28.14)	1.002 (25.45)	.860 (21.84)	1.062 (26.97)	1.187 (30.15)	1.067 (27.10)	1.340 (34.04)	1.131 (28.73)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.610 (15.49)
20	1.312-18 (33.32)	1.233 (31.32)	1.127 (28.62)	.985 (25.02)	1.187 (30.15)	1.312 (33.32)	1.187 (30.15)	1.475 (37.46)	1.256 (31.90)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.673 (17.09)
22	1.437-18 (36.50)	1.358 (34.49)	1.252 (31.80)	1.110 (28.19)	1.312 (33.32)	1.437 (36.50)	1.317 (33.45)	1.590 (40.39)	1.381 (35.08)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.735 (18.66)
24	1.562-18 (39.57)	1.483 (37.67)	1.377 (34.98)	1.235 (31.37)	1.432 (36.50)	1.562 (39.67)	1.437 (36.50)	1.725 (43.82)	1.506 (38.25)	.094 (2.39)	.093 (2.36)	.089 (2.26)	.798 (20.26)

NOTE. Resilient face gasket only.

(H) denotes change

PREPARING ACTIVITY  
CUSTODIANS ARMY  
AM FORC. 85  
L4r Force - 85  
NAVY.  
BLA. ES

MILITARY SPECIFICATION SHEET  
TITLE  
CONNECTOR, RECEPTACLE, ELECTRICAL,  
PIN INSERT, CYLINDRICAL,  
MOUNTING

SPECIFICATION SHEET NUMBER  
MS27034H(USAF)  
SUPERSEDED  
MS27034G  
14 Nov 77

Form Approved  
OMB No. 0704-0188

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DDMS SPECIFIED IN THE SOLICITATION MIL-C-26500

Size of contact	Type of contact	AA	BB dia	CC dia min	DD	EE dia	FF max
12	Solder cup		.150 (3.81)	.112 (2.84)		.095/.093 (2.41/2.36)	.400 (10.16)
12	Eyelet	.035 (22.58)		.112 (2.84)	.200 (5.08)	.095/.093 (2.41/2.36)	.400 (10.16)
16	Solder cup		.103 (2.62)	.069 (1.75)		.063/.061 (1.60/1.55)	.400 (10.16)
16	Eyelet	.025 (0.64)		.069 (1.75)	.125 (3.18)	.063/.061 (1.60/1.55)	.400 (10.16)
20	Solder cup		.077 (1.96)	.042 (1.07)		.041/.039 (1.04/0.99)	.330 (8.38)
16	Eyelet	.015 (0.38)		.042 (1.07)	.080 (2.03)	.041/.039 (1.04/0.99)	.330 (8.38)

Position	Shell size 8			Shell size 10			Shell size 12 thru 24		
	E°	F°	G°	E°	F°	G°	E°	F°	G°
Normal	60	180	300	60	180	300	50	170	290
6	46	166	286	46	166	286	50	170	290
7	46	166	286	46	166	286	50	170	290
8	60	180	300	60	180	300	50	170	290
9	89	209	329	89	209	329	50	170	290
10				60	180	300	50	170	290

(H) denotes change

PREPARING ACTIVITY Air Force - 85  
CUSTODIANS ARMY NAVY  
AIR FORCE - 85 DLA ES  
REVIEW Air Force - 11, 17, 99  
USDA

**MILITARY SPECIFICATION SHEET**  
TITLE  
CONNECTOR, RECEPTACLE, ELECTRICAL,  
PIN INSERT, CYLINDRICAL, MATURE  
HERMETIC, SOLDER MOUNT

SPECIFICATION SHEET NUMBER  
MS27034H(USAF)

SUPERSEDING  
MS27034G 14 Nov 77

SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS  
Agencies of the Department of Defense.

1. REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION (MIL-C-26500)

## NOTES

- 1 Dimensions are in inches
- 2 Millimeters are in parentheses
- 3 Metric equivalents are given for general information only
- 4 All diameters to be concentric with each other within .015 T.I.R.
- 5 All diameters in the same plane to be concentric with each other within .004 T.I.R.
- 6 Contacts to be in accordance with MIL-C-26500. True position (T.P.) tolerances specified are for maximum material conditions (M.M.C.).
- 7 Dimensions in inches, unless otherwise specified, tolerances - decimals  $\pm .005$
- 8 Referenced documents shall be the issue in effect on date of invitations for bid
- 9 This standard takes precedence over documents referenced herein.
- 10 For accessories used with this connector, see 3.2.7 of procurement specification
- 11 Thread relief groove is optional on shell. When groove is omitted, the length of full thread from front of shell shall be .310 minimum and thread runout .385 maximum.
- ① 12. For insert arrangements and alternate insert (keying) position. See MIL-STD-1554

MS shell	MS27034	-	H	18	T	31	E	N	(Eyelet)
part number	MS27034	-	H	18	T	31	E	N	(Solder cup)
Class									
Shell size									
Coupling type									
									Alternate insert position ("N" used for normal position)
									Style
									Contact arrangement

Part number examples.

① denotes change

PREPARING ACTIVITY Air Force - 85	MILITARY SPECIFICATION SHEET		SPECIFICATION SHEET NUMBER
CUSTODIANS ARMY NAVY	TITLE		MS27034H(USAF)
AIR FORCE 85 DLA ES	CONNECTOR, RECEPTACLE, ELECTRICAL,		SUPERSEDING
REVIEW Air Force - 11, 17, 99	PIN INSERT, CYLINDRICAL,		MS27034G
	MINIATURE, HERMETIC, SOLDER MOUNT		14 Nov 77

CREATION - APPROVED FOR USE BY ALL DEPARTMENTS  
FUNCTIONS of the Department of Defense

IF REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION MIL-C-26500

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

FORM APPROVED  
DMM No. 0104 0188

Weight chart			
Maximum connector weight in pounds			
Pin insert		Pin insert	
MS part no.	Solder cup contacts	MS part no.	Eyelet contacts
MS27034H8T2CN		MS27034H8T2EN	
MS27034H10T2CN	.033 (0.84)	MS27034H10T2EN	.032 (0.82)
MS27034H10T5CN	.033 (0.84)	MS27034H10T5EN	.032 (0.82)
MS27034H10T20CN	.034 (0.86)	MS27034H10T20EN	.033 (0.84)
MS27034H12T3CN	.050 (1.27)	MS27034H12T3EN	.050 (1.27)
MS27034H12T12CN	.050 (1.27)	MS27034H12T12EN	.049 (1.24)
MS27034H14T3CN		MS27034H14T3EN	
MS27034H14T4CN	.060 (1.52)	MS27034H14T4EN	.059 (1.50)
MS27034H14T7CN	.056 (1.42)	MS27034H14T7EN	.055 (1.40)
MS27034H14T12CN		MS27034H14T12EN	
MS27034H14T15CN	.058 (1.47)	MS27034H14T15EN	.057 (1.45)
MS27034H16T10CN		MS27034H16T10EN	
MS27034H16T24CN	.066 (1.68)	MS27034H16T24EN	.065 (1.65)
MS27034H18T8CN	.090 (2.29)	MS27034H18T8EN	.090 (2.29)
MS27034H18T14CN	.087 (2.21)	MS27034H18T14EN	.086 (2.18)
MS27034H18T31CN	.085 (2.16)	MS27034H18T31EN	.082 (2.08)
MS27034H20T16CN		MS27034H20T16EN	
MS27034H20T25CN		MS27034H20T25EN	
MS27034H20T28CN		MS27034H20T28EN	
MS27034H20T39CN		MS27034H20T39EN	
MS27034H20T41CN		MS27034H20T41EN	
MS27034H22T12CN		MS27034H22T12EN	
MS27034H22T19CN	.117 (2.97)	MS27034H22T19EN	.115 (2.92)
MS27034H22T32CN		MS27034H22T32EN	
MS27034H22T55CN	.118 (3.00)	MS27034H22T55EN	.115 (2.92)
MS27034H24T43CN		MS27034H24T43EN	
MS27034H24T57CN		MS27034H24T57EN	
MS27034H24T61CN		MS27034H24T61EN	

(H) denotes change

PREPARING ACTIVITY Air Force - P5 CUSTODIANS ARMY NAVY AIR FORCE RF DLA ES	<b>MILITARY SPECIFICATION SHEET</b> TITLE CONNECTOR, RECEPTACLE, ELECTRICAL, PIN INSERT, CYLINDRICAL, MINIATURE, HERMETIC, SOLDER MOUNT	SPECIFICATION SHEET NUMBER <b>MS27034HUSAF</b>
REVIEW Air Force - 11, 17, 99 USER PROJECT NUMBER 5935-F3G1-07		SUPERSEDING MS27034G 14 Nov 77 AMSC N/A FSC 5935
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