

INCH-POUND

MS3443B  
 1 March 2007  
 SUPERSEDING  
 MS3443A  
 05 September 1975

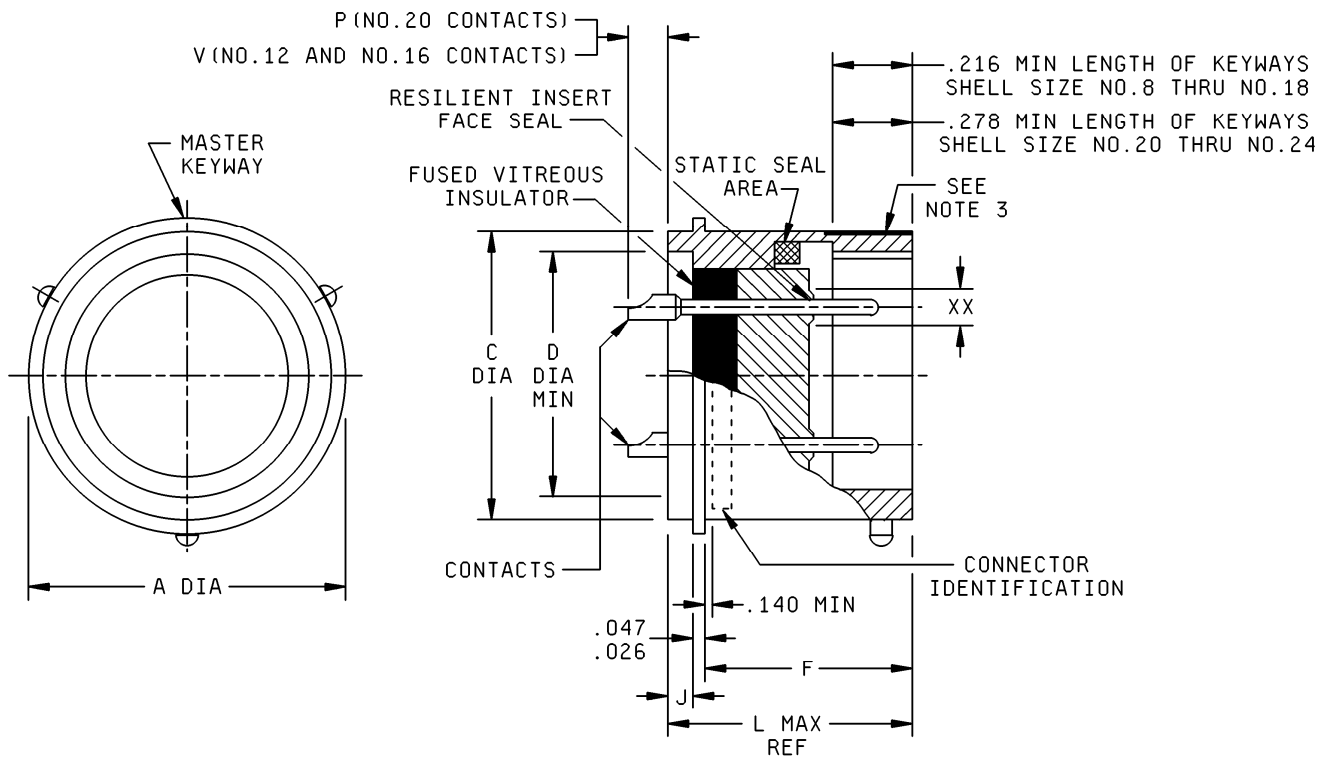
## DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, SOLDER OR WELDED FLANGE MOUNT,  
 BAYONET COUPLING, SOLDER PIN CONTACT, CLASS H, SERIES 2

Inactive for new design after 15 December 1998.

This specification is approved for use by all Departments and  
 Agencies of the Department of Defense.

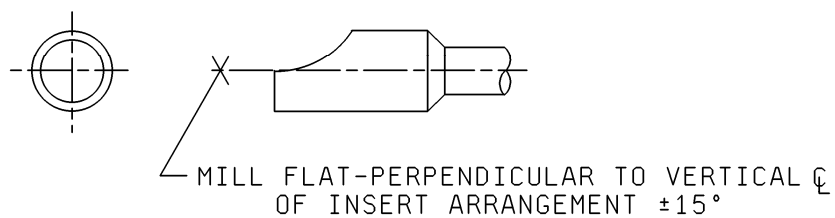
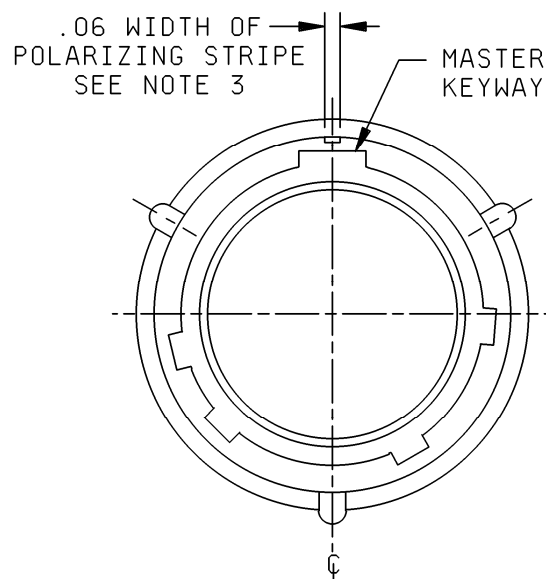
The requirements for acquiring the product described herein  
 shall consist of this specification sheet and MIL-DTL-26482.



NOTE: For "XX", see note 4 and table I for contact cavities requiring reduced dimensions.

FIGURE 1. Receptacle, class H, dimensions and configurations.

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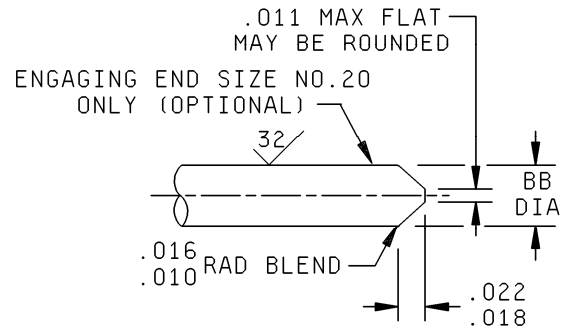
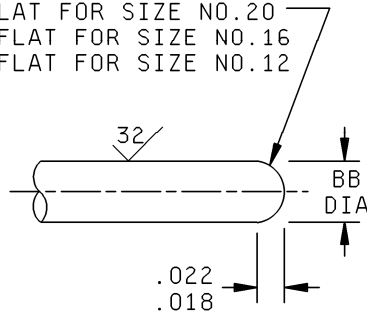


SOLDER POT ORIENTATION

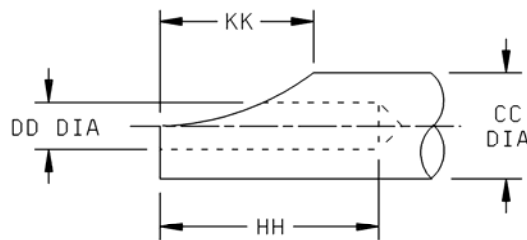
FIGURE 1. Receptacle, class H, dimensions and configurations - Continued.

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ENGAGING END APPROXIMATELY  
SPHERICAL WITH  
.011 MAX FLAT FOR SIZE NO.20  
.020  $\pm$ .005 FLAT FOR SIZE NO.16  
.057  $\pm$ .005 FLAT FOR SIZE NO.12

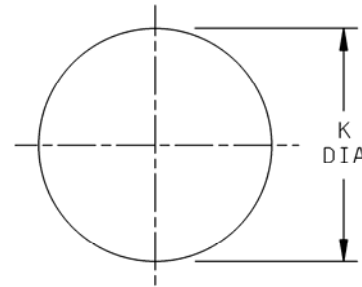


ENGAGING END OF CONTACT



TERMINATION END OF CONTACTS

SOLDER POT



PANEL CUTOUT

Contact size	BB	CC	DD	HH	KK
20	.041 (1.04)	.088 (2.24)	.048 (1.22)	.188 (4.78)	.110 (2.79)
	.039 (0.99)	.061 (1.55)	.042 (1.07)	.109 (2.77)	.068 (1.73)
16	.0635 (1.61)	.116 (2.95)	.075 (1.91)	.251 (6.38)	.141 (3.58)
	.0615 (1.56)	.096 (2.44)	.069 (1.75)	.172 (4.37)	.109 (2.77)
12	.095 (2.41)	.150 (3.81)	.122 (3.10)	.251 (6.38)	.141 (3.58)
	.093 (2.36)	.130 (3.30)	.112 (2.84)	.172 (4.37)	.109 (2.77)

FIGURE 1. Receptacle, class H, dimensions and configurations - Continued.

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Shell size	A	C	D	F
8	.635 (16.13) .615 (15.62)	.563 (14.30) .557 (14.15)	.403 (10.24)	.598 (15.19)
10	.760 (19.30) .740 (18.80)	.673 (17.09) .667 (16.94)	.515 (13.08)	
12	.854 (21.69) .834 (21.18)	.782 (19.86) .776 (19.71)	.630 (16.00)	
14	.979 (24.87) .959 (24.36)	.907 (23.04) .901 (22.89)	.755 (19.18)	
16	1.104 (28.04) 1.084 (27.53)	1.032 (26.21) 1.026 (26.06)	.880 (22.35)	
18	1.228 (31.19) 1.208 (30.68)	1.157 (29.39) 1.151 (29.24)	.980 (24.89)	
20	1.322 (33.58) 1.302 (33.07)	1.251 (31.78) 1.245 (31.62)	1.105 (28.07)	.660 (16.76)
22	1.448 (36.78) 1.428 (36.27)	1.376 (34.95) 1.370 (34.80)	1.230 (31.24)	
24	1.574 (39.98) 1.554 (39.47)	1.501 (38.13) 1.495 (37.97)	1.385 (35.18)	

Shell size	J	K	L	P	V	Max weight lbs (grams)
8	.156 (3.96) .116 (2.95)	.570 (14.48)	.801 (20.35) .863 (21.92)	.178 (4.52) .118 (3.00)	.248 (6.30) .188 (4.78)	.0310 (14.07)
10		.680 (17.27)				.0340 (15.43)
12		.789 (20.04)				.0400 (18.16)
14		.914 (23.22)				.0510 (23.15)
16		1.039 (26.39)				.0620 (28.15)
18		1.164 (29.57)				.0820 (37.23)
20		1.258 (31.95)				.1000 (45.40)
22	.188 (4.78)	1.383 (35.13)	.895 (22.73)	.146 (3.71)	.216 (5.49)	.1150 (52.21)
24	.148 (3.76)	1.508 (38.30)		.086 (2.18)	.156 (3.96)	.2680 (121.67)

FIGURE 1. Receptacle, class H, dimensions and configurations - Continued.

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Inches	mm
.005	0.13
.010	0.25
.011	0.28
.016	0.41
.020	0.51
.022	0.56
.026	0.66
.047	1.19
.057	1.45
.06	1.5
.088	2.23
.140	3.56
.216	5.49
.278	7.06

## NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. Dimensional tolerances are .XX  $\pm$  .01, .XXX  $\pm$  .005. Angular dimensions are  $X^{\circ} \pm 1^{\circ}$ .
3. Polarizing stripes, color optional.
4. Insert arrangements requiring reduced diameters for raised seal barrier on outer row of contact cavities as indicated.
5. True position (TP) tolerances specified are in accordance with ASME Y14.5M.

FIGURE 1. Receptacle, class H, dimensions and configurations - Continued.

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TABLE I. Contact cavities requiring reduced diameters (XX) for pins and sockets in outer row of contact cavities. 1/

Shell size	Insert arrangement	Contact cavities
8	-33 & -98	A, B, C.
12	-10	C, G.
14	-12	A, B, C, D, E, F, G, H.
14	-18	A, C, E, G, J, L.
14	-19	B, D, F, H, K, M.
16	-26	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R.
18	-32	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T.
22	-41	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y.

1/ The reduced diameter "XX" refers to the diameters of the raised seal barriers (pin barrier rings) or lead-in chamfers (socket entry holes) to ensure proper sealing of pin and socket after mating. See MIL-DTL-26482, connector intermateability control dimensions (series 1 and series 2) figure for reduced diameter "XX" for contact size 20 only.

#### REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

Connector mating: This connector mates with MS3475 and MS3476.

For insert arrangement: See MIL-STD-1669.

Intermateability dimensions are in accordance with MIL-DTL-26482.

#### Material:

Shell types A and B, 300 series stainless steel in accordance with ASTM A582/A582M and ASTM A276 (weld only, not intended for solder applications).

Shell type C, cold rolled steel in accordance with ASTM A108 (intended for solder applications only).

#### Finish:

Shell types A and B, passivated in accordance with ASTM A967.

Shell type C, .0001 inch (2.54 µm) tin minimum in accordance with ASTM B545 or ASTM B339 over nickel in accordance with SAE AMS-QQ-N-290.

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	<u>MS3443</u>	<u>H</u>	<u>24</u>	<u>C</u>	<u>61</u>	<u>P</u>	<u>W</u>
MS number							
Class							
Shell size							
Termination type & shell material							
Insert arrangement							
Contact style							
Insert position							

Supersession data: PIN MS3443H\*C\*\*\* supersedes PINs MS3443H\*A\*\*\* and MS3443H\*B\*\*\*.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-26482, this document references the following:

MS3475  
MS3476  
MIL-STD-1669  
ASME Y14.5M  
ASTM A108  
ASTM A276  
ASTM A967  
ASTM A582/A582M  
ASTM B339  
ASTM B545  
SAE AMS-QQ-N-290

## CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - AS  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5935-4656-010)

Review activities:  
Army - AV  
Navy - EC, SH

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.