

INCH-POUND

MS3479C  
 1 March 2007  
 SUPERSEDING  
 MS3479B  
 29 October 1986

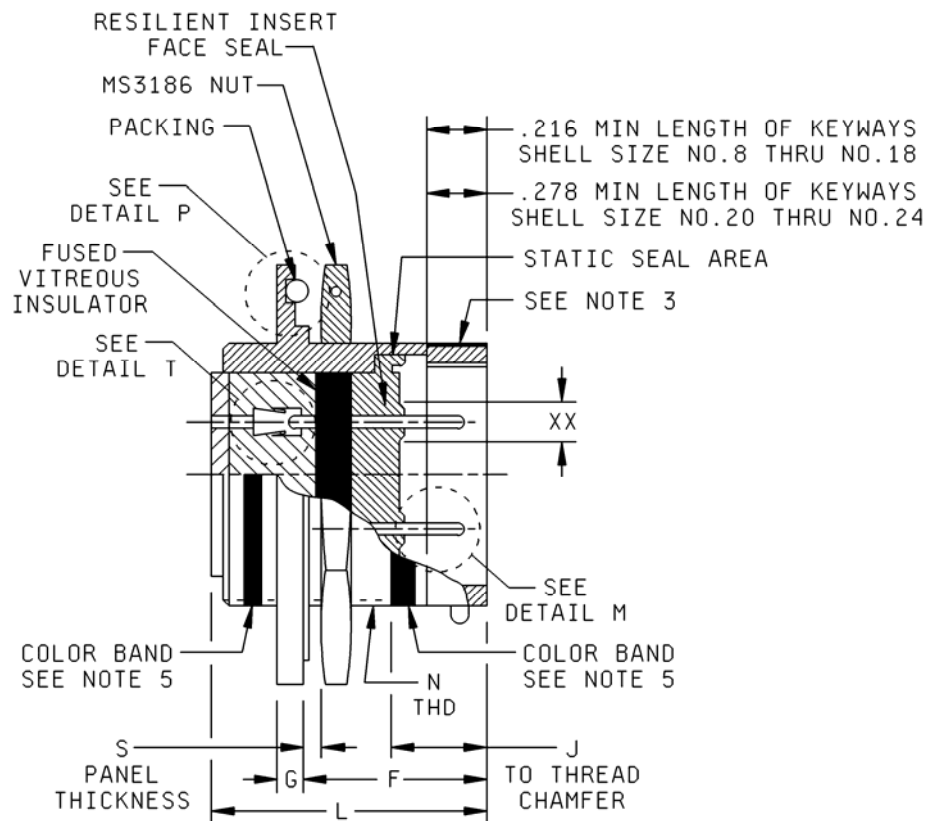
## DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, SERIES II, HERMETIC,  
 SOLDERLESS, REAR MOUNTING, JAM NUT, BAYONET COUPLING, CLASS N

Reactivated after 1 March 2007 and may be used  
 for new and existing designs and acquisitions.

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 N, dimensions and configurations.

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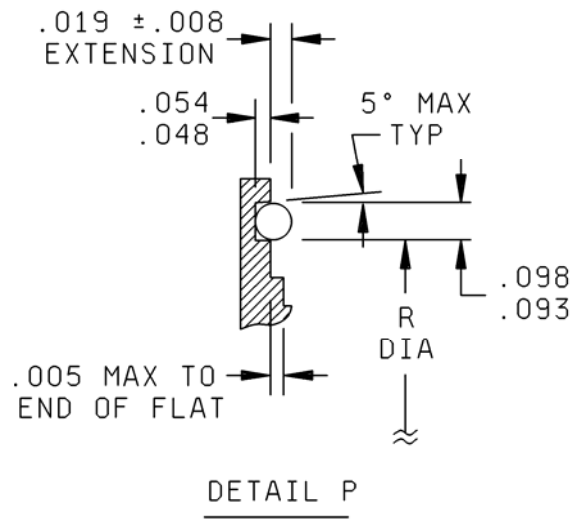
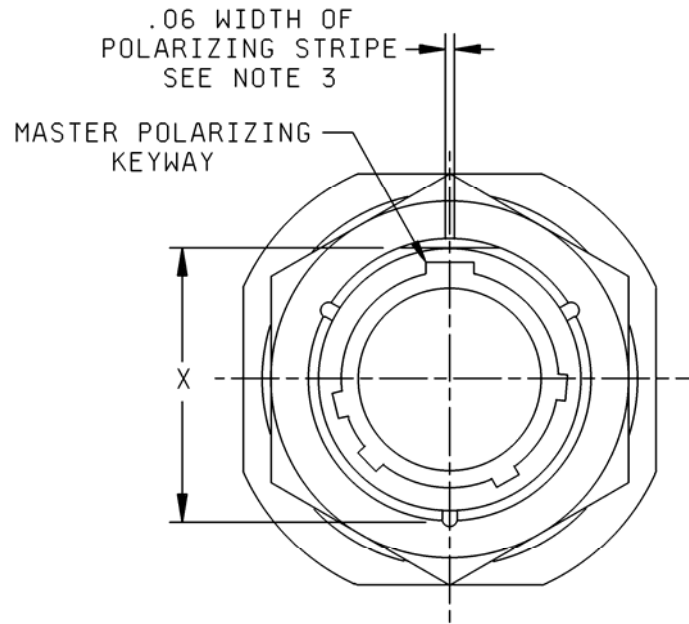


FIGURE 1. Receptacle, class N, dimensions and configurations - Continued.

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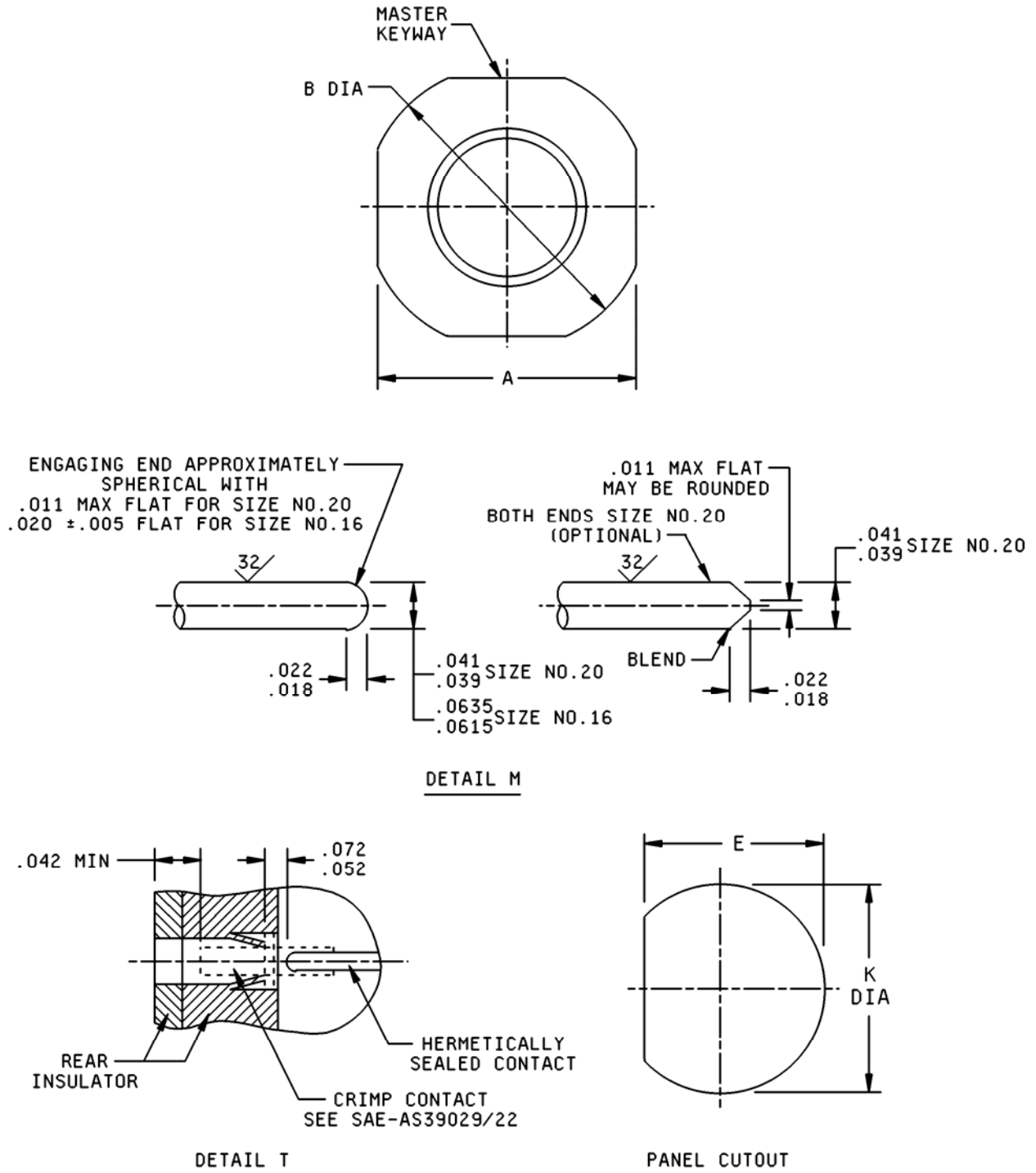


FIGURE 1. Receptacle, class N, dimensions and configurations - Continued.

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Shell size	A	B	E	F	G	J	K			
8	.954 (24.23)	1.078 (27.38)	.536 (13.61)	.887 (22.53)	.113 (2.87)	.378 (9.60)	.572 (14.53)			
	.924 (23.47)	1.047 (26.59)					.697 (17.70)			
10	1.078 (27.38)	1.203 (30.56)	.661 (16.79)				.867 (22.02)	.097 (2.46)	.358 (9.09)	.895 (22.73)
	1.047 (26.59)	1.172 (29.77)	.824 (20.93)							1.010 (25.65)
12	1.266 (32.16)	1.391 (35.33)	.948 (24.08)				.916 (23.27)	.148 (3.76)	.405 (10.29)	1.135 (28.83)
	1.235 (31.37)	1.360 (34.54)								1.072 (27.23)
14	1.391 (35.33)	1.516 (38.51)	1.072 (27.23)				.896 (22.76)	.128 (3.25)	.385 (9.78)	1.385 (35.18)
	1.360 (34.54)	1.485 (37.72)								1.197 (30.40)
16	1.516 (38.51)	1.641 (41.68)	1.322 (33.58)				.896 (22.76)	.128 (3.25)	.405 (10.29)	1.635 (41.53)
	1.485 (37.72)	1.610 (40.89)								1.447 (36.75)
18	1.641 (41.68)	1.766 (44.86)	1.447 (36.75)	.896 (22.76)	.128 (3.25)	.405 (10.29)				
	1.610 (40.89)	1.735 (44.07)					1.572 (39.93)			
20	1.828 (46.43)	1.954 (49.63)	1.572 (39.93)	.896 (22.76)	.128 (3.25)	.405 (10.29)				
	1.797 (45.64)	1.923 (48.84)								
22	1.954 (49.63)	2.078 (52.78)	1.572 (39.93)	.896 (22.76)	.128 (3.25)	.405 (10.29)				
	1.923 (48.84)	2.047 (51.99)								
24	2.078 (52.78)	2.203 (55.96)	1.572 (39.93)	.896 (22.76)	.128 (3.25)	.405 (10.29)				
	2.047 (51.99)	2.172 (55.17)								

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

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Shell size	N UNEF-2A	L	R	S	X
8	.5625-24	1.078 (27.38)	.609 (15.47)	.187 (4.75)  .062 (1.57)	.525 (13.34)
10	.6875-24		.734 (18.64)		.650 (16.51)
12	.875-20		.921 (23.39)		.813 (20.65)
14	1.000-20		1.046 (26.57)		.937 (23.80)
16	1.125-18		1.171 (29.74)		1.061 (26.95)
18	1.250-18		1.296 (32.92)		1.186 (30.12)
20	1.375-18	1.140 (28.96)	1.484 (37.69) (.058 (1.47))	.250 (6.35)  .062 (1.57)	1.311 (33.30)
22	1.500-18		1.609 (40.87)		1.436 (36.47)
24	1.625-18		1.734 (44.04)		1.561 (39.65)

## NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. Unless otherwise specified, tolerances shall be  $.XX \pm .01$ ,  $.XXX \pm .005$ . Angular tolerances shall be  $\pm 1^\circ$ .
3. Polarizing stripe, color optional.
4. Insert arrangements requiring reduced diameters for raised seal barriers on outer row of contact cavities as indicated (see figure 1).
5. Color band:  $.070$  (1.78 mm)  $\pm .031$  (0.79 mm) wide, color blue. Band location must be such that it is visible when mounting.
6. True position (TP) tolerances specified are in accordance with ASME Y14.5M.

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

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Inches	mm	Inches	mm
.005	0.13	.054	1.37
.008	0.20	.06	1.5
.011	0.28	.0615	1.562
.018	0.46	.0635	1.613
.019	0.48	.072	1.83
.020	0.51	.093	2.36
.022	0.56	.098	2.49
.039	0.99	.216	.549
.041	1.04	.278	7.29
.042	1.07	1.000	25.40
.048	1.22	1.125	28.58
.052	1.32	1.500	38.10

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

Contact SAE-AS39029/22-XX-XX must be used for wire terminations.

Shell material: Cold rolled steel, in accordance with ASTM A108.

Shell finish: .00001 (0.254  $\mu\text{m}$ ) minimum tin in accordance with ASTM B545 and ASTM B339, over nickel in accordance with SAE-AMS-QQ-N-290.

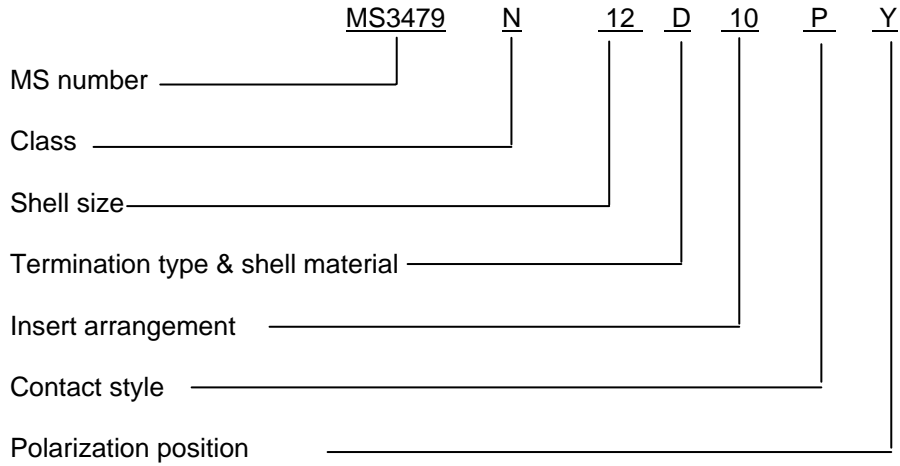
Jam nut finish: Nickel in accordance with SAE-AMS-QQ-N-290.

Insertion/removal tool M81969/16-XX to be used with this connector.

Maximum wire diameter permissible: .074 (1.88 mm) for size 20 contact, .103 (2.62 mm) for size 16 contact.

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Part or Identifying Number (PIN) example:



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:

- MS3186
- MS3475
- MS3476
- MIL-STD-1669
- ASME Y14.5M
- ASTM A108
- ASTM B339
- ASTM B545
- SAE-AMS-QQ-N-290
- SAE-AS39029/22

CONCLUDING MATERIAL

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

Preparing activity:  
 DLA - CC  
 (Project 5935-4656-018)

Review activities:  
 Army - AR, AV, MI  
 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>.