

INCH-POUND

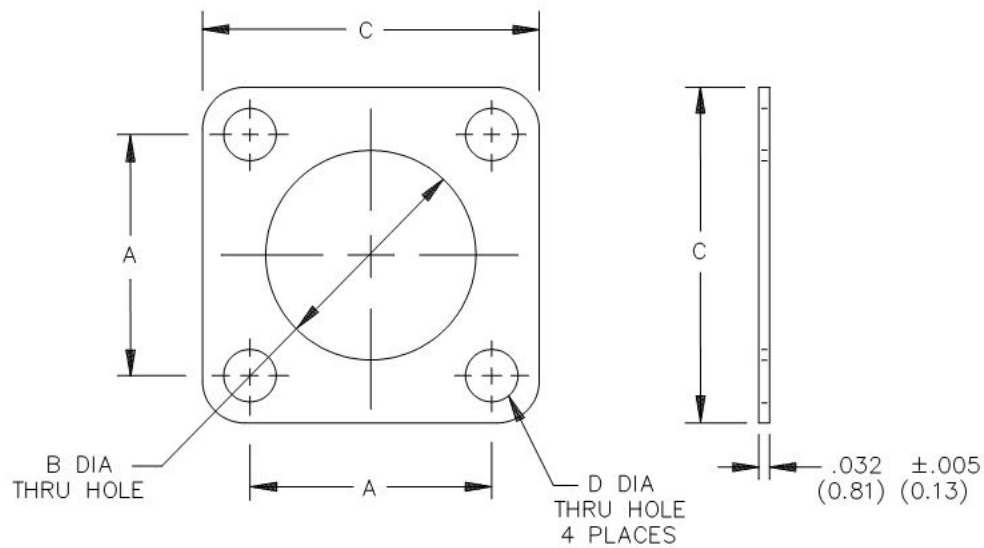
MIL-DTL-83528/4H
13 February 2023
SUPERSEDING
MIL-DTL-83528/4G
3 January 2018

DETAIL SPECIFICATION SHEET

GASKETING MATERIAL, CONDUCTIVE, SHIELDING GASKET, ELECTRONIC, EMI/RFI, CONNECTOR FLANGE MOUNT

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

The requirements for acquiring the relay described herein shall
consist of this specification and the latest issue of [MIL-DTL-83528](#).



NOTES:

Dimensions are in inches; metric equivalents are given in parenthesis and are for general information only.

FIGURE 1. EMI/RFI connector gasket.



REQUIREMENTS:

Design and interface: See [figure 1](#) and [table I](#).

Material: Type A, B, C, D, E, F, G, H, J, K, L, or M.

Connector shell size: See [tables I](#) and [II](#).

Part or Identifying Number (PIN): See [table I](#).

Supersession information: See [table II](#).

TABLE I. Dimensions.

PIN M83528/004X 1/	Dimension 2/				Connector Shell Size	Cross section (cm ²) 3/
	A ± .010	B + .020 - .000	C ± .015	D ± .010		
001	.469 (11.91 mm)	.375 (9.53 mm)	.738 (18.75 mm)	.141 (3.58 mm)	6	.037
002	.594 (15.09 mm)	.630 (16.00 mm)	.840 (21.34 mm)	.135 (3.43 mm)	8	.022
003	.594 (15.09 mm)	.568 (14.43 mm)	.812 (20.62 mm)	.125 (3.18 mm)	8	.025
004	.594 (15.09 mm)	.500 (12.70 mm)	.875 (22.23 mm)	.156 (3.96 mm)	8	.039
005	.719 (18.26 mm)	.750 (19.05 mm)	.965 (24.51 mm)	.135 (3.43 mm)	9,10	.022
006	.719 (18.26 mm)	.680 (17.27 mm)	.937 (23.80 mm)	.125 (3.18 mm)	10	.027
007	.719 (18.26 mm)	.625 (15.88 mm)	1.000 (25.40 mm)	.156 (3.96 mm)	10S,SL	.039
008	.812 (20.62 mm)	.875 (22.23 mm)	1.060 (26.92 mm)	.141 (3.58 mm)	11,12	.019
009	.813 (20.65 mm)	.750 (19.05 mm)	1.094 (27.79 mm)	.141 (3.58 mm)	12,12S,SL	.036
010	.906 (23.01 mm)	1.005 (25.53 mm)	1.153 (29.29 mm)	.135 (3.43 mm)	13,14	.015
011	.906 (23.01 mm)	.938 (23.83 mm)	1.125 (28.58 mm)	.125 (3.18 mm)	14	.019
012	.906 (23.01 mm)	.875 (22.23 mm)	1.188 (30.18 mm)	.156 (3.96 mm)	14,14S	.032
013	.969 (24.61 mm)	1.135 (28.83 mm)	1.258 (31.95 mm)	.156 (3.96 mm)	15,16	.013
014	.969 (24.61 mm)	1.063 (27.00 mm)	1.250 (31.75 mm)	.125 (3.18 mm)	16	.019
015	.969 (24.61 mm)	1.000 (25.40 mm)	1.281 (32.54 mm)	.156 (3.96 mm)	16,16S	.029
016	1.062 (26.97 mm)	1.260 (32.00 mm)	1.351 (34.32 mm)	.156 (3.96 mm)	17,18	.009
017	1.062 (26.97 mm)	1.189 (30.20 mm)	1.343 (34.11 mm)	.125 (3.18 mm)	18	.016
018	1.062 (26.97 mm)	1.135 (28.83 mm)	1.375 (34.93 mm)	.156 (3.96 mm)	18,18S	.025
019	1.156 (29.36 mm)	1.375 (34.93 mm)	1.500 (38.10 mm)	.141 (3.58 mm)	19,20	.013
020	1.156 (29.36 mm)	1.312 (33.32 mm)	1.467 (37.26 mm)	.125 (3.18 mm)	20	.016
021	1.156 (29.36 mm)	1.250 (31.75 mm)	1.500 (38.10 mm)	.172 (4.37 mm)	20	.016
022	1.250 (31.75 mm)	1.500 (38.10 mm)	1.625 (41.28 mm)	.141 (3.58 mm)	21,22	.026
023	1.250 (31.75 mm)	1.437 (36.50 mm)	1.562 (39.67 mm)	.125 (3.18 mm)	22	.013
024	1.250 (31.75 mm)	1.375 (34.93 mm)	1.625 (41.28 mm)	.172 (4.37 mm)	22	.013
025	1.375 (34.93 mm)	1.625 (41.28 mm)	1.750 (44.45 mm)	.172 (4.37 mm)	23,24	.026
026	1.375 (34.93 mm)	1.563 (39.70 mm)	1.703 (43.26 mm)	.152 (3.86 mm)	24	.013
027	1.375 (34.93 mm)	1.500 (38.10 mm)	1.750 (44.45 mm)	.203 (5.16 mm)	24	.015
028	1.500 (38.10 mm)	1.750 (44.45 mm)	1.875 (47.63 mm)	.172 (4.37 mm)	25	.016
029	1.562 (39.67 mm)	1.750 (44.45 mm)	2.000 (50.80 mm)	.203 (5.16 mm)	28	.013
030	1.750 (44.45 mm)	2.000 (50.80 mm)	2.250 (57.15 mm)	.219 (5.56 mm)	32	.026
031	1.938 (49.23 mm)	2.250 (57.15 mm)	2.500 (63.50 mm)	.219 (5.56 mm)	36	.026
032	2.188 (55.58 mm)	2.500 (63.50 mm)	2.750 (69.85 mm)	.219 (5.56 mm)	40	.026
033	2.375 (60.33 mm)	2.781 (70.63 mm)	3.000 (76.20 mm)	.219 (5.56 mm)	44	.023
034	2.625 (66.68 mm)	3.031 (76.99 mm)	3.250 (82.55 mm)	.219 (5.56 mm)	48	.023
035	.500 (12.70 mm)	.437 (11.10 mm)	.800 (20.32 mm)	.135 (3.43 mm)	4/	.037
036	.500 (12.70 mm)	.437 (11.10 mm)	.687 (17.45 mm)	.135 (3.43 mm)	4/	.026

[1/](#) "X" in the PIN shall be replaced by the applicable material type. Complete PIN example: M83528/004A001.

[2/](#) Dimensions are in inches; metric equivalents are given in parenthesis and are for general information only.

[3/](#) For calculation of volume resistivity (for reference only).

[4/](#) Connector shell size data is unavailable for -035 and -036.

TABLE II. Connector shell size.

PIN M83528/ 004X	MIL-DTL-38999			SAE-AS81511	SAE AS90484	SAE AS50151	MIL-DTL-83723	NAS1599 (inactive 6/1980)	MIL-DTL-26482
	Series I	Series II	Series IV						
001							6	6	6
002		8							
003				8	8				
004						8	8	8	8
005	9	10							
006				10	10				
007						10	10	10	10
008	11	12	11						
009						12	12	12	12
010	13	14	13						
011				14	14				
012						14	14	14	14
013	15	16	15						
014				16	16				
015						16	16	16	16
016	17	18	17						
017				18	18				
018						18	18	18	18
019	19	20	19						
020				20	20				
021						20	20	20	20
022	21	22	21						
023				22	22				
024						22	22	22	22
025	23	24	23						
026				24	24				
027						24	24	24	24
028	25		25						
029						28			
030						32			
031						36			
032						40			
033						44			
034						48			
035 ^{1/}									
036 ^{1/}									

^{1/} Connector shell size data is unavailable for -035 and -036.

TABLE III. Supersession information.

PIN <u>1/</u> M83528/004X	Superseded DESC Drawing PIN 85099X <u>1/</u>	PIN <u>1/</u> M83528/004X	Superseded DESC Drawing PIN 85099X <u>1/</u>
001	001	019	019
002	002	020	020
003	003	021	021
004	004	022	022
005	005	023	023
006	006	024	024
007	007	025	025
008	008	026	026
009	009	027	027
010	010	028	028
011	011	029	029
012	012	030	030
013	013	031	031
014	014	032	032
015	015	033	033
016	016	034	034
017	017	035	N/A
018	018	036	N/A

1/ "X" in the PIN indicates the material type.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to [MIL-DTL-83528](#), this document references the following:

[MIL-DTL-38999](#) [SAE-AS81511](#) [SAE-AS90484](#) [SAE-AS50151](#) [MIL-DTL-83723](#) [NAS1599](#)
[MIL-DTL-26482](#)

Custodians:
Army – CR
Navy – EC
Air Force – 85
DLA – CC

Preparing activity:
DLA – CC

(Project 5999-2023-004)

Review activities:
| Air Force – 19
NSA – NS

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 <https://assist.dla.mil/>.