

INCH-POUND

MIL-DTL-28731/19E
15 March 2004
SUPERSEDING
MIL-C-28731/19D
25 May 1984

DETAIL SPECIFICATION SHEET

CONNECTOR, ELECTRICAL, RECTANGULAR SHIELD, FOR 20, 38, 56, 90 OR 120 REMOVABLE CONTACTS

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

The requirements for acquiring product described herein shall consist of this specification sheet and MIL-DTL-28731.

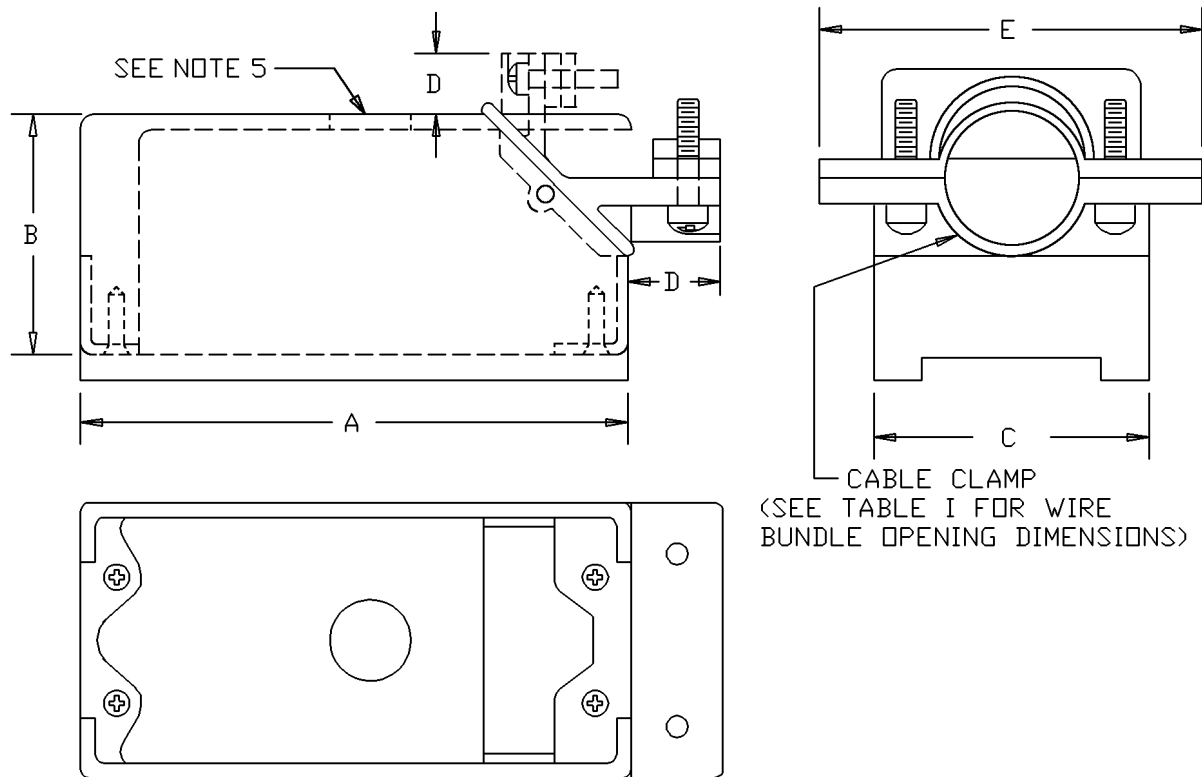


FIGURE 1. Shield, rectangular.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Shield assemblies can be used with the following connector assemblies:
M28731/9-0109 and -0012; M28731/10-0109, -0111, -0112 and -0114; M28731/11-0073 and -0075; M28731/12-0073 and -0075; M28731/13-0073 and -0075; M28731/14-0073 and -0075; M28731/15-0073 and -0075; M28731/16-0073 and -0075; M28731/17-0109 and -0112; M28731/18-0109, -0111, -0112 and -0114; M28731/29-0001 and -0002; M28730/30-0001 and -0002; M28731/31-0001 and -0002; M28731/32-0001 and -0002; M28731/33-0001 and -0002; M28731/34-0001 and -0002.
4. Shield assemblies are supplied with (4) .086-56, .122-40, .138-32 screws for mounting shield to insulator. Complete unit to be packaged in accordance with MIL-STD-2073-1, method 10.
5. Shield assemblies M28731/19-0011 through -0014 and -0019 through -0022 are supplied with a rubber grommet No. MS-35489-4 in accordance with NASM3036 for placement in clearance hole of actuating hardware shaft.
6. The Government has a royalty-free license under the following listed patents for the benefit of manufacturers of the item either for the Government or for use in equipment to be delivered to the Government. Patent notice: Patent No. 3,248,686 owned by Elco Corporation.

FIGURE 1. Shield, rectangular - Continued.

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TABLE I. Part or Identifying Number (PIN) information.

PIN shield	For use with connector specification sheet	Dim 'A' max	Dim 'B' $\pm .020$	Dim 'C' max	Dim 'D' max	Dim 'E' max	Clamp location	Wire bundle opening ref
M28731/19-0001 M28731/19-0002	MIL-C-28731/9 and /10	1.340	.756	.720	.340	.720	Side Top	.454 Dia.
M28731/19-0003 M28731/19-0004	MIL-C-28731/11, /12, /29, and /30	2.025	1.381	.920	.500	.920	Side Top	.650 x .500
M28731/19-0005 M28731/19-0006	MIL-C-28731/11, /12, /29, and /30	2.025	1.381	.920	.500	1.110	Side Top	.650 X .608
M28731/19-0007 ^{1/} M28731/19-0008 ^{1/}	MIL-C-28731/13, /14, /31 and /32	2.618	1.381	.920	.500	.920	Side Top	.650 X .500
M28731/19-0009 M28731/19-0010	MIL-C-28731/13, /14, /31 and /32	2.618	1.381	.920	.500	1.110	Side Top	.650 X .608
M28731/19-0011 M28731/19-0012	MIL-C-28731/15, /16, /33 and MIL-DTL-28731/34	2.745	1.625	1.260	.500	1.260	Side Top	.800 Dia.
M28731/19-0013 M28731/19-0014	MIL-C-28731/17 and /18	2.778	1.875	1.560	.500	1.560	Side Top	1.080 X .800
M28731/19-0015 M28731/19-0016	MIL-C-28731/11, /12, /29 and /30	2.025	1.381	.920	.500	1.110	Side Top	.820 X .614
M28731/19-0017 M28731/19-0018	MIL-C-28731/13, /14 /31 and /32	2.618	1.381	.920	.500	1.110	Side Top	.820 X .614
M28731/19-0019 M28731/19-0020	MIL-C-28731/15, /16, /33 and MIL-DTL-28731/34	2.745	1.625	1.260	.500	1.260	Side Top	.800 X 1.000
M28731/19-0021 M28731/19-0022	MIL-C-28731/17 and /18	2.778	1.875	1.560	.500	1.560	Side Top	1.100 X 1.085

^{1/} Shield will only accommodate wire sizes 22, 24, and 26 AWG. Use shield M28731/19-0009 and M28731/19-0010 for wire sizes 18 and 20 AWG.

REQUIREMENTS

Dimensions and configurations: See figure 1 and table I.

PIN information: See table I.

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-28731, this document references the following:

MIL-C-28731/9	MIL-C-28731/18	MIL-STD-2073-1
MIL-C-28731/10	MIL-C-28731/29	NASM3036
MIL-C-28731/11	MIL-C-28731/30	
MIL-C-28731/12	MIL-C-28731/31	
MIL-C-28731/13	MIL-C-28731/32	
MIL-C-28731/14	MIL-C-28731/33	
MIL-C-28731/15	MIL-DTL-28731/34	
MIL-C-28731/16		
MIL-C-28731/17		

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force – 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-4508-001)

Review activities:

Army - AR, AT, AV, CR4, MI
Navy - AS, MC, OS
Air Force - 19, 99

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