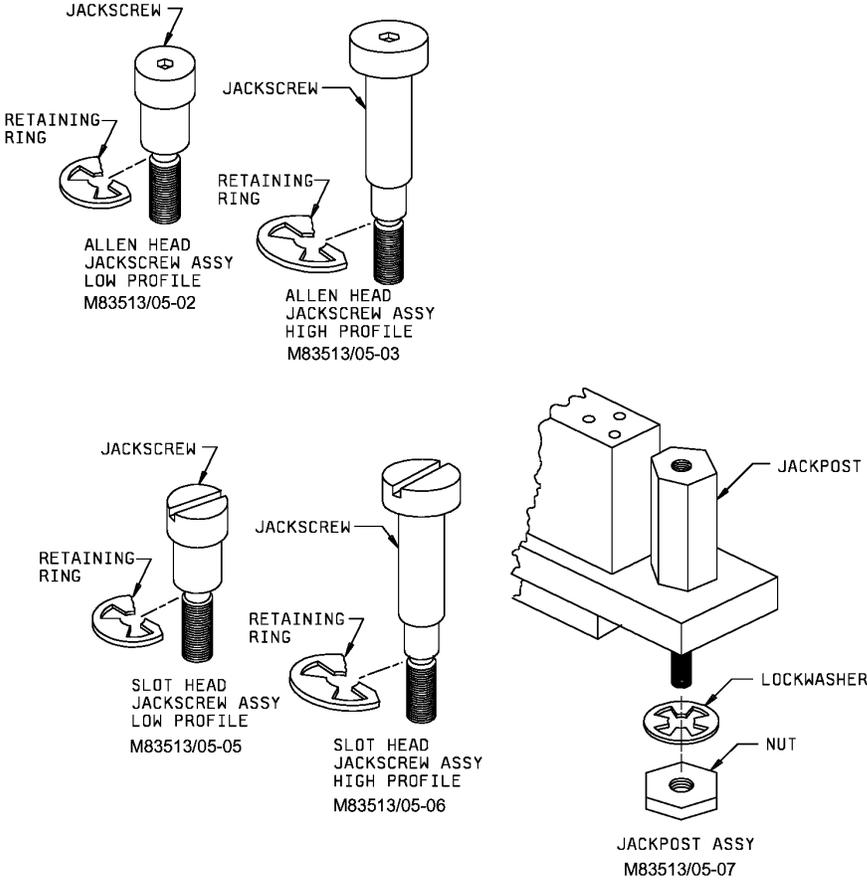


DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE,
MOUNTING HARDWARE

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

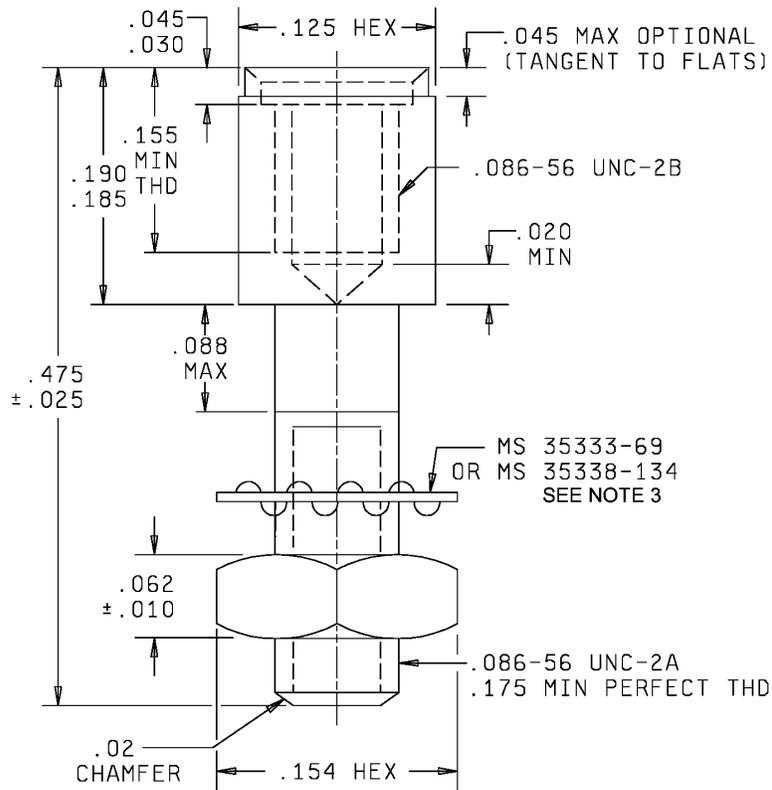
The requirements for acquiring the product described herein shall consist of this specification sheet and
MIL-DTL-83513.



Configurations A and B

FIGURE 1. Mounting hardware types .050 spacing.

MIL-DTL-83513/5G



JACKPOST ASSY M83513/05-07

CONFIGURATION A

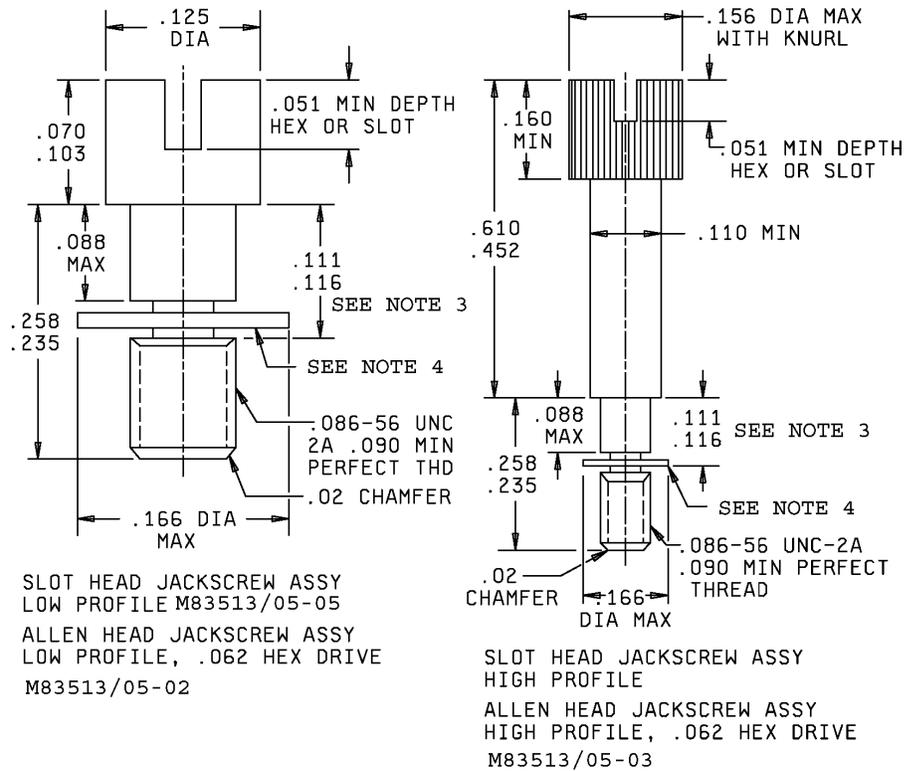
Inches	mm	Inches	mm
.010	0.25	.088	2.24
.020	0.51	.125	3.18
.025	0.64	.154	3.91
.030	0.76	.155	3.94
.040	1.02	.175	4.45
.045	1.14	.185	4.70
.062	1.57	.190	4.83
.086	2.18	.475	12.07

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. MS35333-69 in accordance with AIA/NAS NASM35333 and MS35338-134 in accordance with AIA/NAS NASM35338. (Application for copies should be addressed to Aerospace Industries Association of America, INC., 1250 Eye Street, NW Suite 1100 Washington, DC 20005)

FIGURE 2. Dimensions and configurations.

MIL-DTL-83513/5G



CONFIGURATION B

Inches	mm	Inches	mm
.005	0.13	.112	2.84
.02	0.51	.116	2.95
.051	1.30	.118	3.00
.070	1.78	.125	3.18
.083	2.11	.156	3.96
.086	2.18	.160	4.06
.088	2.24	.166	4.22
.090	2.29	.235	5.97
.103	2.62	.240	6.10
.108	2.74	.258	6.55
.110	2.79	.452	11.48
.111	2.82	.610	15.49

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Bottom of E ring slot.
4. E ring Part or Identifying Number (PIN): R271NAC0006NN519HNQA1 or R271NAC0006NN519HNQD1 in accordance with (ASME-B18.27.1 and ASME-B18.24.3. (Application for copies should be addressed to American Society of Mechanical Engineers, ASME International Three Park Avenue, M/S 10E New York, NY 10016-5990.)

FIGURE 2. Dimensions and configurations - Continued.

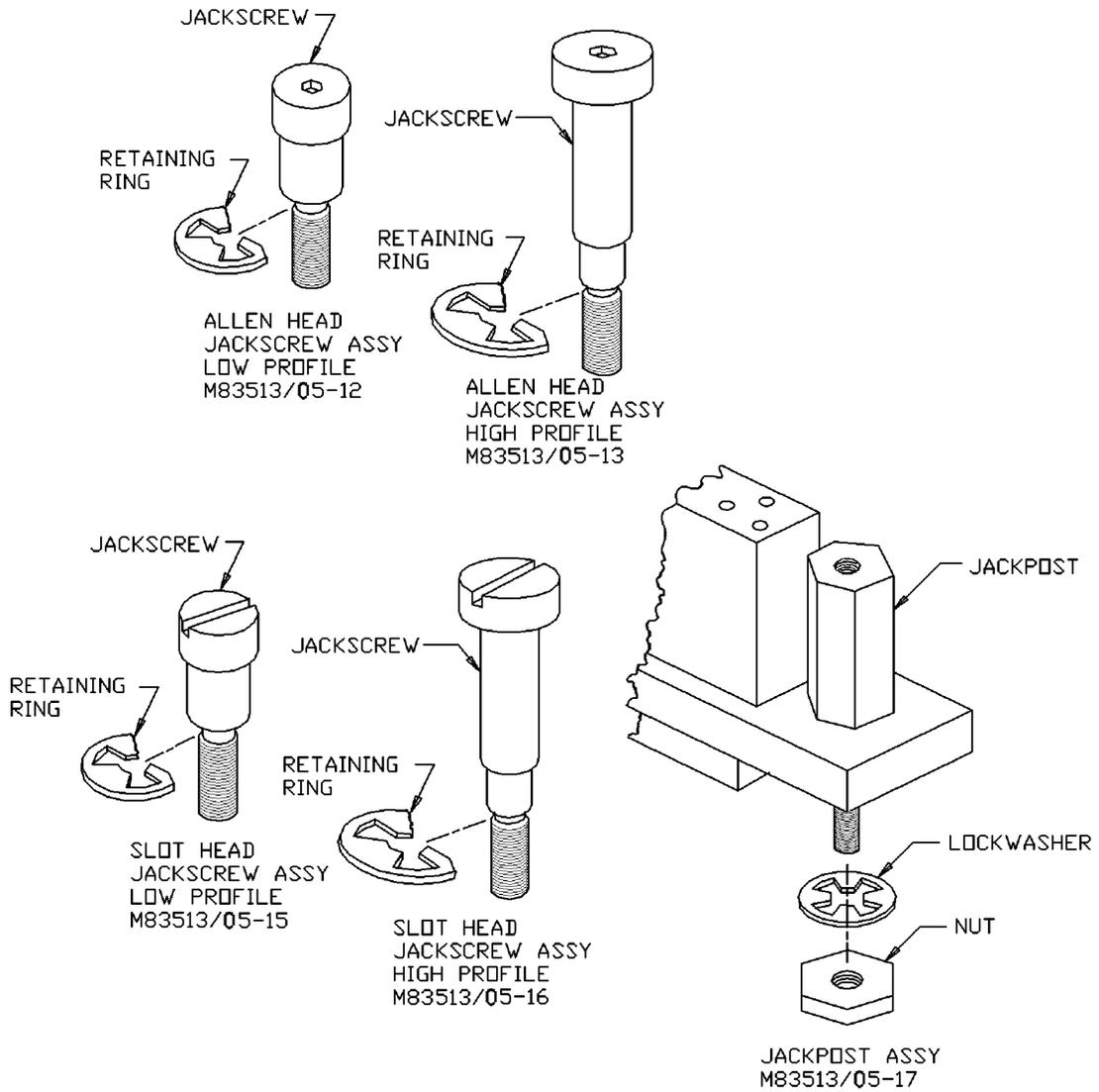
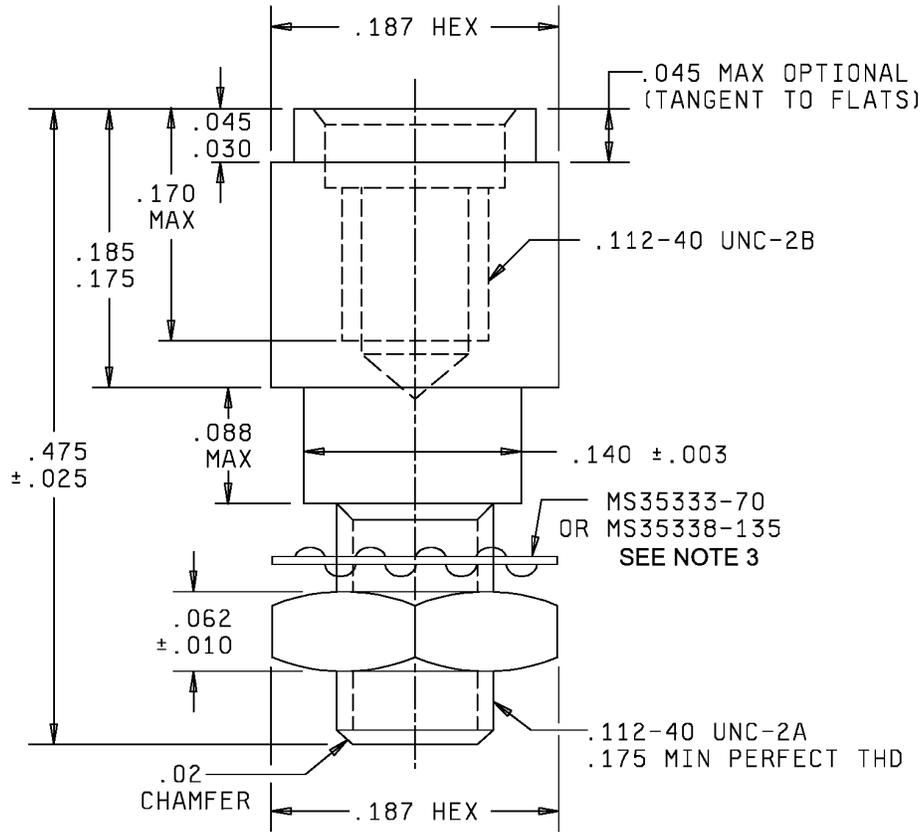


FIGURE 3. Mounting hardware types (100 cavity connectors).

MIL-DTL-83513/5G



JACKPOST ASSY M83513/05-17

CONFIGURATION C

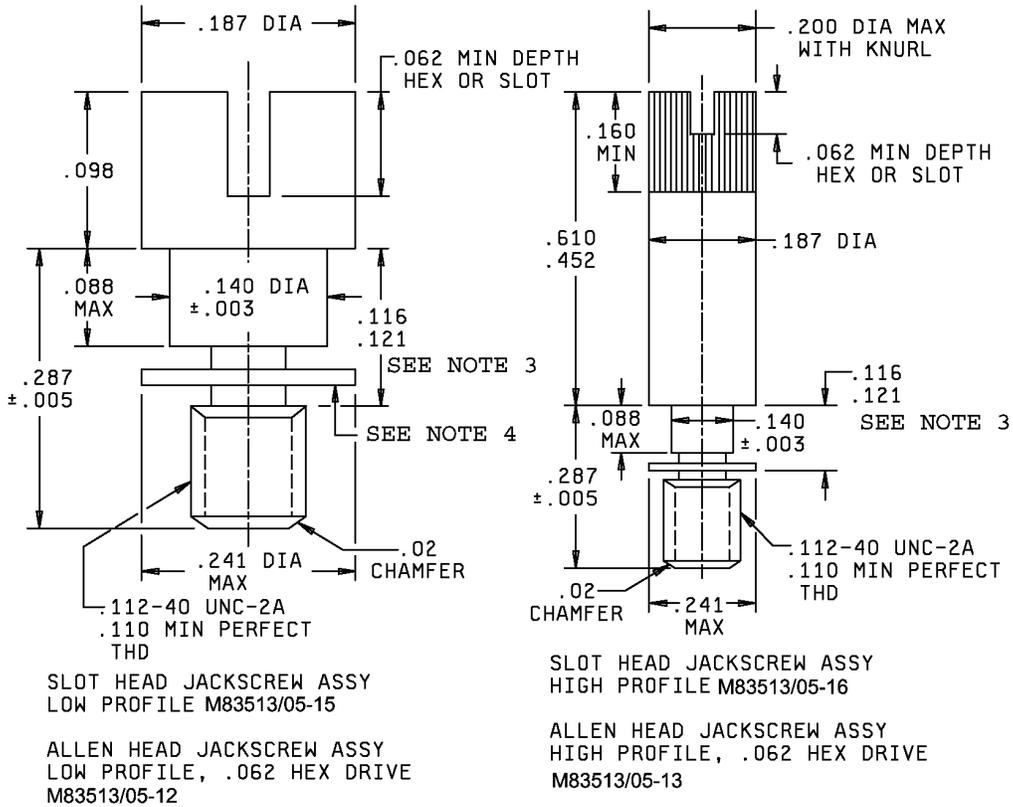
Inches	mm	Inches	mm
.003	0.08	.088	2.24
.010	0.25	.112	2.84
.02	0.51	.140	3.56
.025	0.64	.170	4.32
.030	0.76	.175	4.45
.040	1.02	.185	4.70
.045	1.14	.187	4.75
.062	1.57	.475	12.07

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. MS35333-70 in accordance with AIA/NAS NASM35333 and MS35338-135 in accordance with AIA/NAS NASM35338. (Application for copies should be addressed to Aerospace Industries Association of America, INC., 1250 Eye Street, NW Suite 1100 Washington, DC 20005)

FIGURE 4. Dimensions and configuration (100 cavity connector).

MIL-DTL-83513/5G



CONFIGURATION C

Inches	mm	Inches	mm
.003	0.08	.118	3.00
.005	0.13	.121	3.07
.02	0.51	.140	3.56
.062	1.57	.160	4.06
.088	2.24	.187	4.75
.098	2.49	.193	4.90
.108	2.74	.200	5.08
.110	2.79	.240	6.10
.112	2.84	.287	7.29
.116	2.95	.452	11.48
.111	2.82	.610	15.49

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Bottom of E ring slot.
4. E ring PIN: R271NAC0006NN519HNQA1 or R271NAC0006NN519HNQD1 in accordance with ASME-B18.27.1 and ASME-B18.24.3. (Application for copies should be addressed to American Society of Mechanical Engineers, ASME International Three Park Avenue, M/S 10E New York, NY 10016-5990.)

FIGURE 4. Dimensions and configuration (100 cavity connector) - Continued.

MIL-DTL-83513/5G

REQUIREMENTS:

Dimensions and configurations: See figure 1 through 4.

Material and finish:

Jackscrew: Shall be corrosion resistant steel, nonmagnetic corrosion resistant steel having a minimum tensile strength of 125,000 psi.

Jackpost and nut: Corrosion resistant steel in accordance with ASTM A484 and ASTM A582, passivated in accordance with ASTM A 967

Clip and washers: Corrosion resistant steel in accordance with ASTM A 240; passivated in accordance with ASTM A 967. Does not meet the 2.0 μ permeability requirements of the basic specification.

Application:

Mounting hardware not furnished with connectors. All dash numbers fit configurations A and B connectors only (MIL-DTL- 83513/01 through MIL-DTL-83513/04 and MIL-DTL-83513/06 through MIL-DTL-83513/09, except for configuration C which is for 100 cavity arrangement only and uses No. 4-40 mounting hardware. Two complete assemblies as shown are supplied with each dash number.

Installation:

M38513/05-02, -03, -05, -06, -12, -13, -15, and -16 jackscrew with retaining ring: Place jackscrew (either slotted or hex, long or low profile types) through mounting hole in connector flange then slide retaining ring into slot in jackscrew.

M83513/05-07 and -17 jackpost: Place jackpost through mounting hole in connector flange and mounting panel (if used). Place lockwasher over screw threads then screw on nut and torque as required.

PIN: See figures 1 through 4.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
NASA - NA
DLA - CC

Preparing activity:

DLA - CC

(Project: 5935-4310-005)

Review activities:

Army - AT, MI
Navy - AS, CG, MC SH
Air Force - 99