INCH-POUND

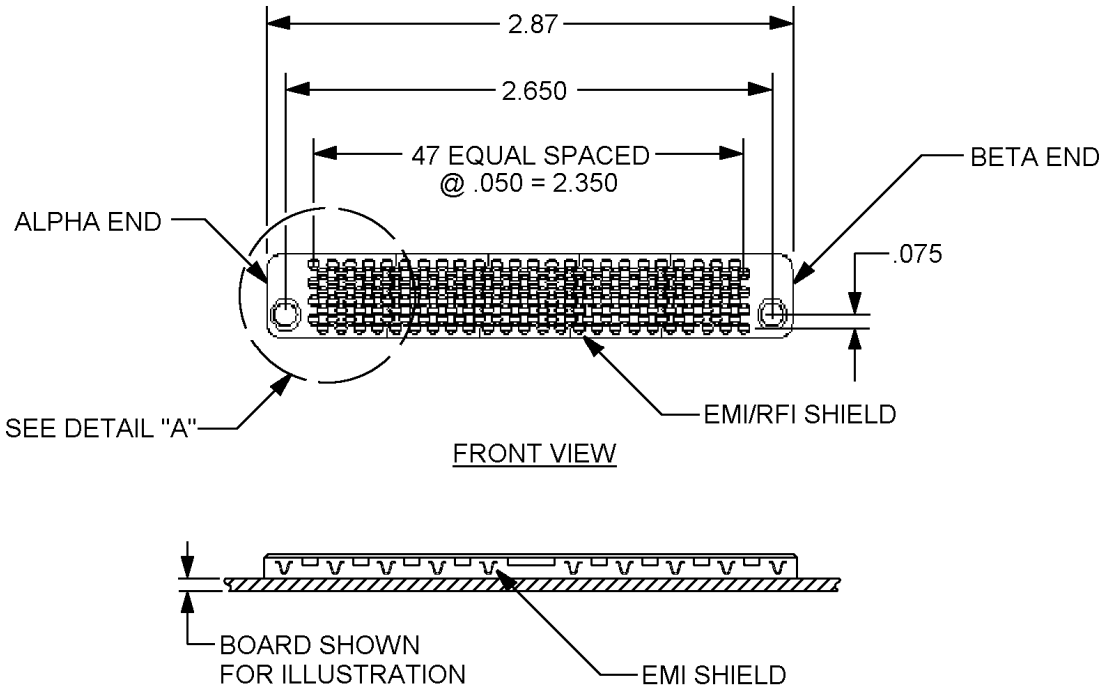
MIL-DTL-32234/1
16 January 2007

DETAIL SPECIFICATION SHEET

CONNECTOR, ELECTRICAL, ULTRA HIGH DENSITY, MODULAR, BLADE AND FORK, BACKPANEL, EIGHT ROW, 192 PINS

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

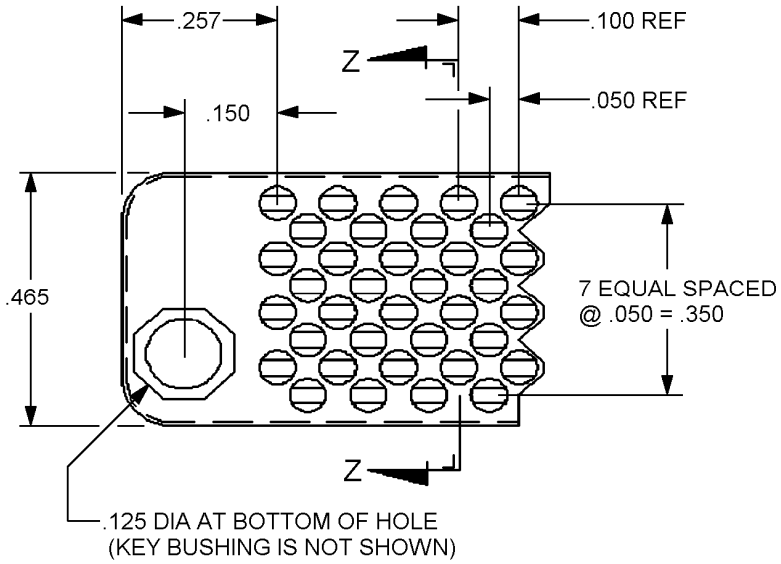
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-32234.



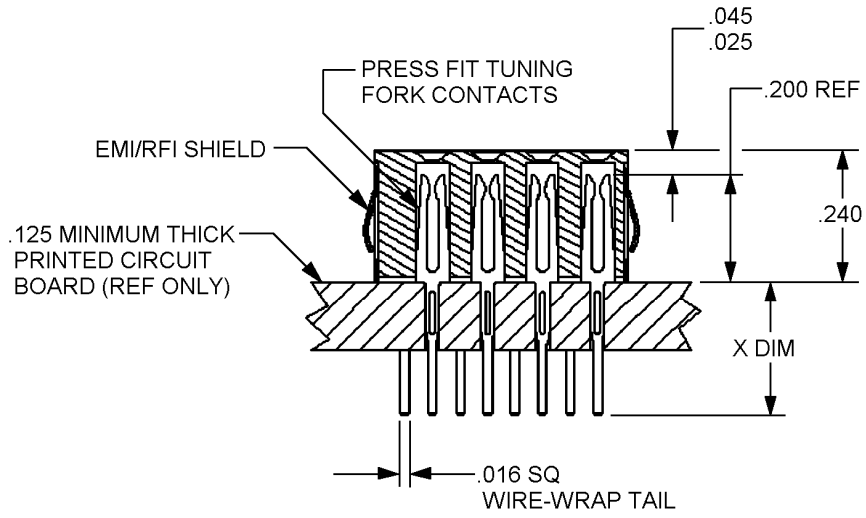
Inches	mm
.050	1.27
.075	1.91
2.350	59.69
2.650	67.31
2.87	72.90

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances for 2 place decimals are ±.01 inch (0.3 mm), 3 place decimals are ±.005 inch (0.13 mm).
4. Electromagnetic interference/radio frequency interference (EMI/RFI) shield is optional. See Part or Identifying Number (PIN).

FIGURE 1. Connector face view.



DETAIL "A"



SECTION Z-Z

(See table I for X dimension)

(Shown installed in PWB, rotated 90° CW)

Inches	mm
.016	0.41
.025	0.64
.045	1.14
.050	1.27
.100	2.54
.125	3.18
.150	3.81
.200	5.08
.240	6.10
.257	6.53
.350	8.89
.465	11.81

NOTES:
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FIGURE 2. Connector cross sectional view.

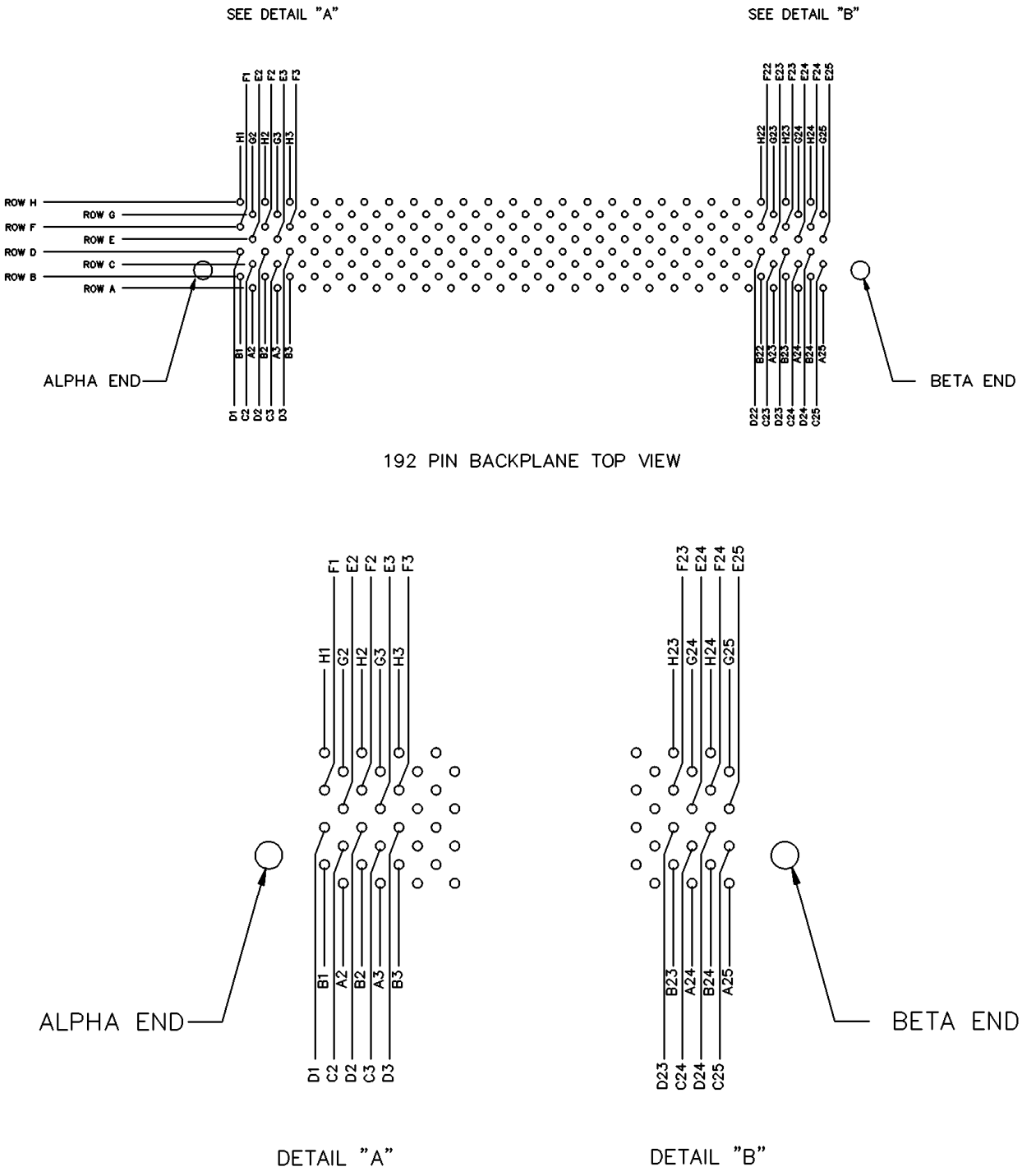
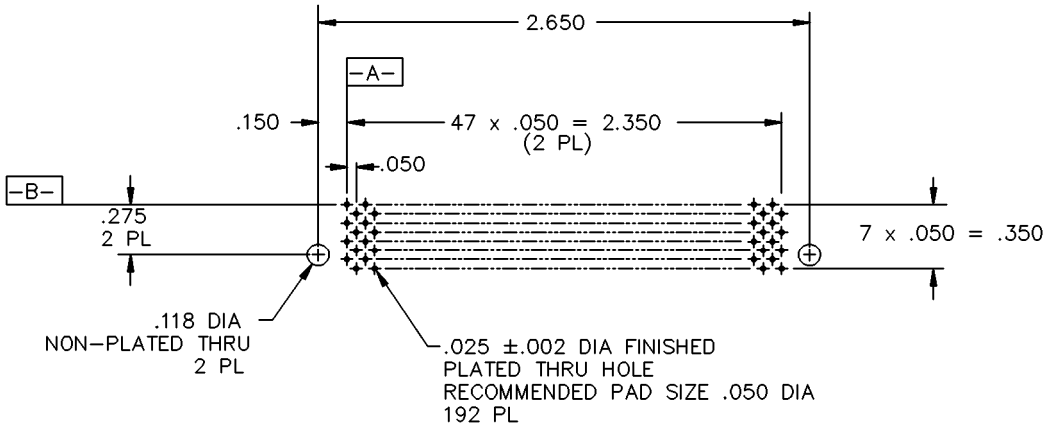


FIGURE 3. Printed wiring board layout.



PRINTED CIRCUIT BACKPLANE GRID LAYOUT
(CONNECTOR SIDE)

Inches	mm
.002	0.05
.025	0.64
.050	1.27
.118	3.00
.150	3.81
.275	6.99
.350	8.89
2.350	59.69
2.650	67.31

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances for 2 place decimals are ±.01 inch (0.3 mm), 3 place decimals are ±.005 inch (0.13 mm).

FIGURE 3. Printed wiring board layout -Continued.

REQUIREMENTS:

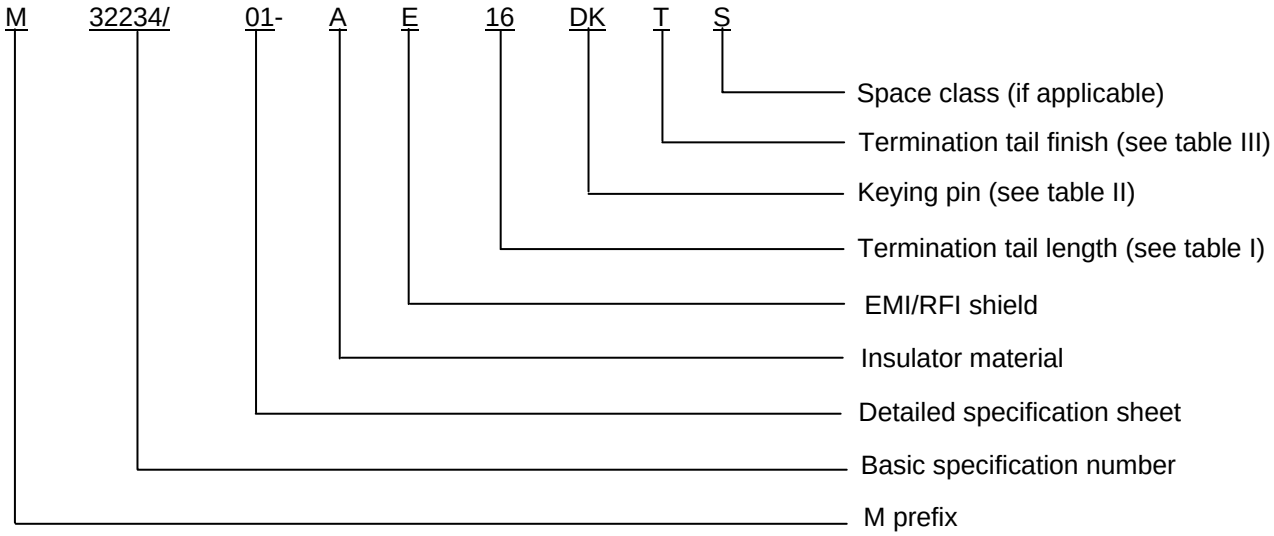
Dimensions and configurations: The design, construction, and physical dimensions shall be as specified on figures 1, 2, 3, and MIL-DTL-32234. In case of conflict between this drawing and MIL-DTL-32234, this drawing shall govern.

Termination: Pins are printed wiring board terminated.

Wire wrap: 30 AWG wire.

Mating connectors: These connectors mate with backplane mounted connectors in accordance with MIL-DTL--32234/2.

PIN example:



Insulator material. Insulator material shall be fabricated using thermoplastic, type GPT-30F in accordance with MIL-M-24519.

EMI/RFI shield. The PIN will include a letter, which will identify if an EMI/RFI shield is required.

N - No shield
E - EMI/RFI shield

Termination tail length. The PIN will include as specified in table I, which will identify the termination tail length, allowing for use in various thickness backplanes, and also possible additional wire wrapping of the termination tails.

TABLE I. Termination tail length. 1/ 2/

Termination tail length	Length X dimension inches (mm) 3/
16	.160 (4.06)
22	.220 (5.59)
31	.310 (7.87)
35	.350 (8.89)
40	.400 (10.16)
49	.490 (12.45)

1/ Dimensions are in inches.
2/ Metric equivalents are given for information only.
3/ X dimension is a reference dimension only.

Keying pins. The PIN will contain a single character for this feature (see table II).

TABLE II. Keying feature. 1/

Designator	Key or bushing type
DK	“D” keying pin
PK	“PIE” keying pin
DB	“D” keying bushing
PB	“PIE” keying bushing
SP	To be ordered separately (see MIL-DTL-32234/9)

1/ For dimensions and configurations see MIL-DTL-32234/9.

Termination tail finish. The pin will contain a single letter for the termination tail finish (see table III).

TABLE III. Termination tail finish.

Designator	Termination tail finish
T	Tin-lead
G	Gold

Space class.

S - Space class. Thermal vacuum outgassing testing required. OEM is to specify acceptable test specification and outgassing requirements/limits.
Blank - For non-space applications.

Material requirements. The materials to be used in construction and fabrication shall be as specified herein. Materials required, but not specified in this slash sheet shall be in accordance with MIL-DTL-32234.

Mating and unmating force. Mating and unmating force requirements for connector, shells, guide pins are to be determined.

Referenced documents. In addition to MIL-DTL-32234, this document references the following:

MIL-M-24519
MIL-DTL-32234/2
MIL-DTL-32234/9

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5935-4829-001)

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.