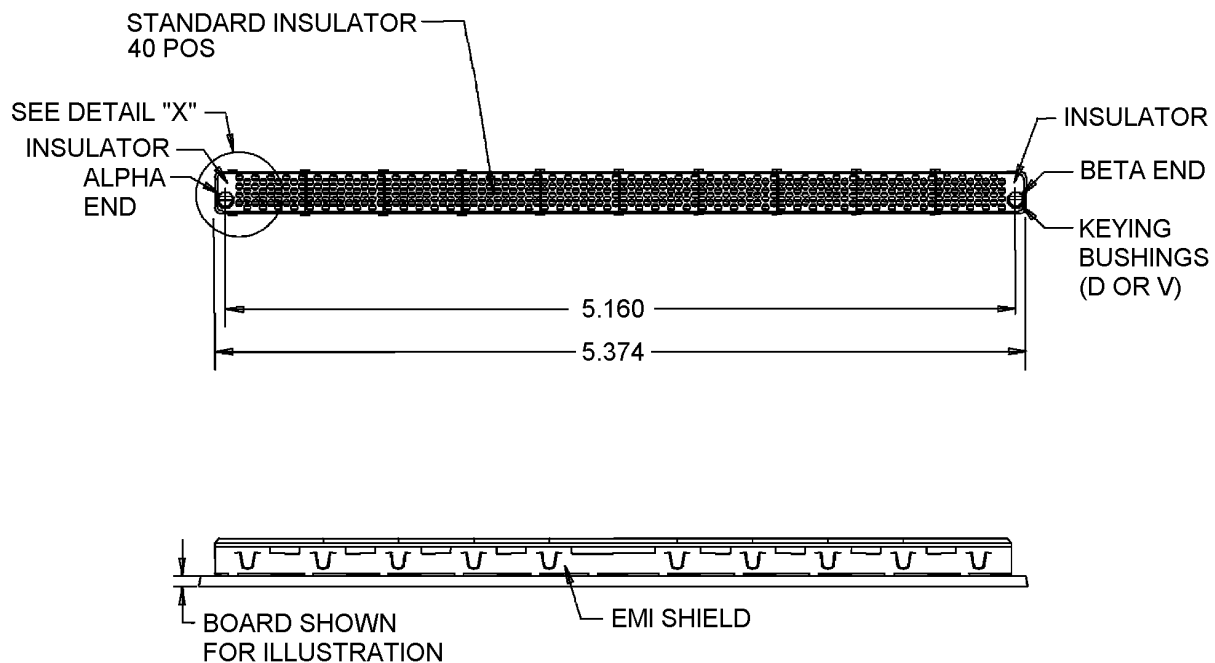


DETAIL SPECIFICATION SHEET

CONNECTOR, ELECTRICAL, ULTRA HIGH DENSITY,
MODULAR, BLADE AND FORK, BACKPANEL,
EIGHT ROW, 396 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.

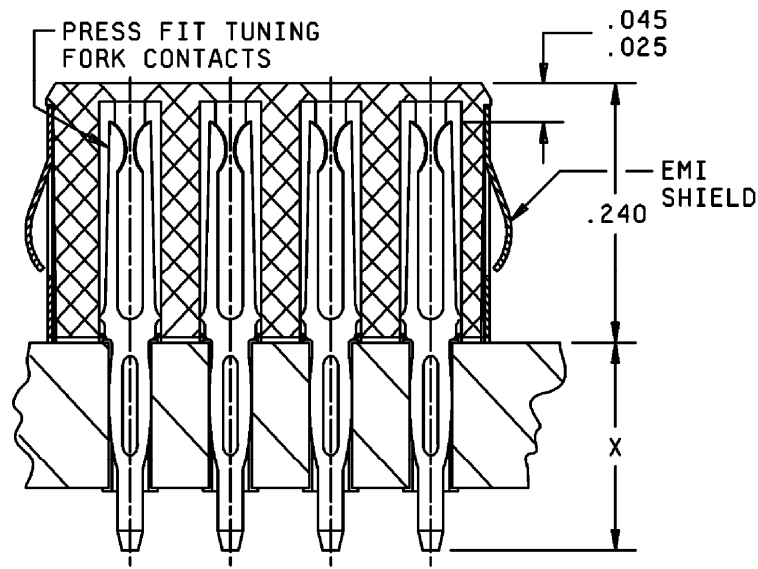
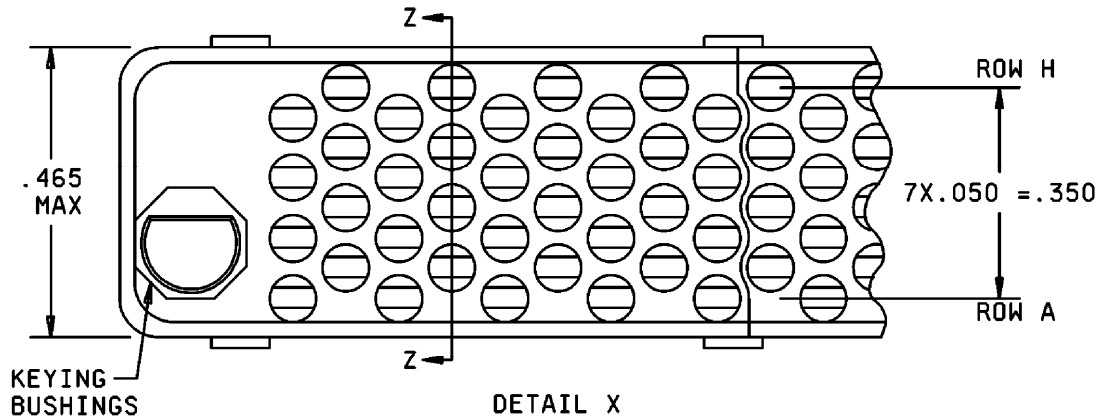


Inches	mm
5.160	131.06
5.374	136.50

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances for 2 place decimals are ± 0.01 inch (0.3 mm), 3 place decimals are ± 0.005 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.



(See table I for X dimension)

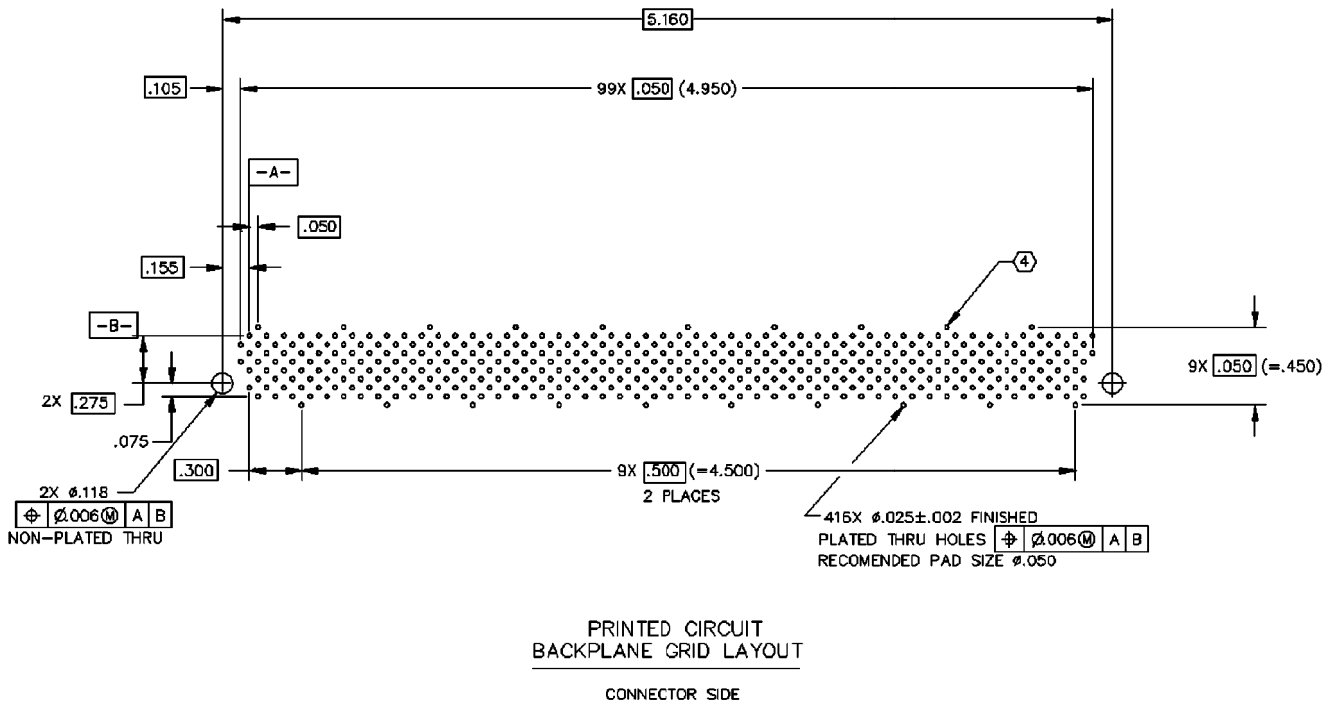
Inches	mm
.025	0.64
.045	1.14
.050	1.27
.240	6.10
.350	8.89
.465	11.81

(Shown installed in PWB, rotated 90° CW)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances for 2 place decimals are ± 0.01 inch (0.3 mm), 3 place decimals are ± 0.005 inch (0.13 mm).

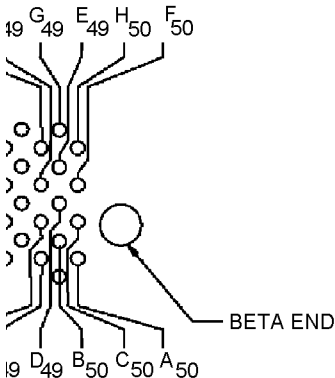
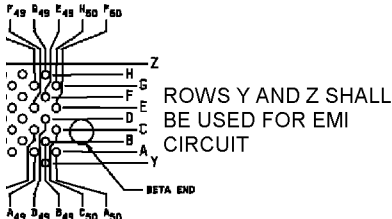
FIGURE 2. Connector cross sectional view.



- NOTES:
1. Dimensions are in inches.
 2. Metric equivalents are given for information only.
 3. Unless otherwise specified, the tolerance for 2 place decimals is $\pm .01$ inch (0.3 mm); the tolerance for 3 place decimals is $\pm .005$ inch (0.13 mm); angular tolerance is $\pm 0^\circ30'$.
 4. Rows J and K shall be used for EMI/RFI circuit.

FIGURE 3. Printed wiring board (PWB) layout.

DETAIL "C"

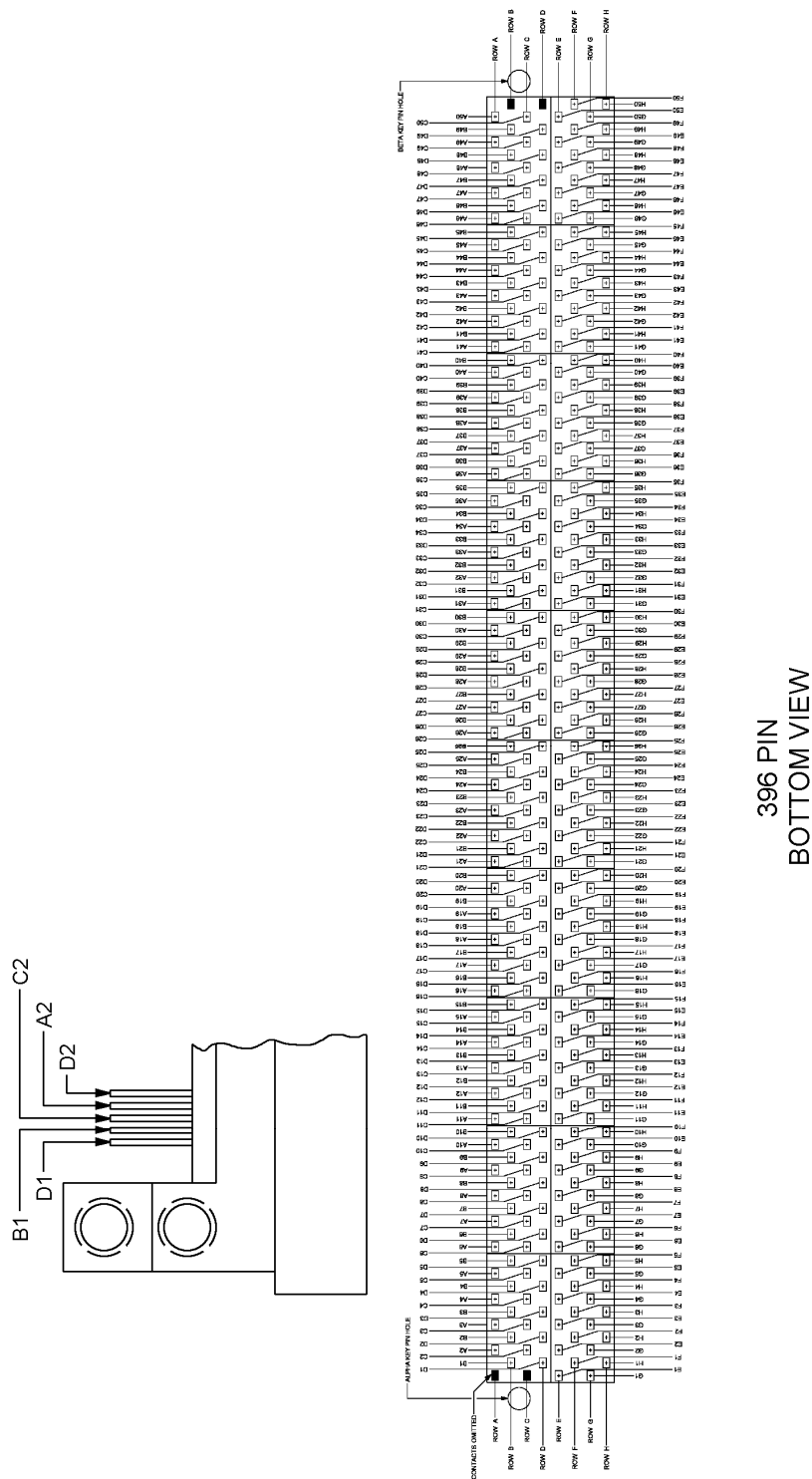


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:TAIL "C"

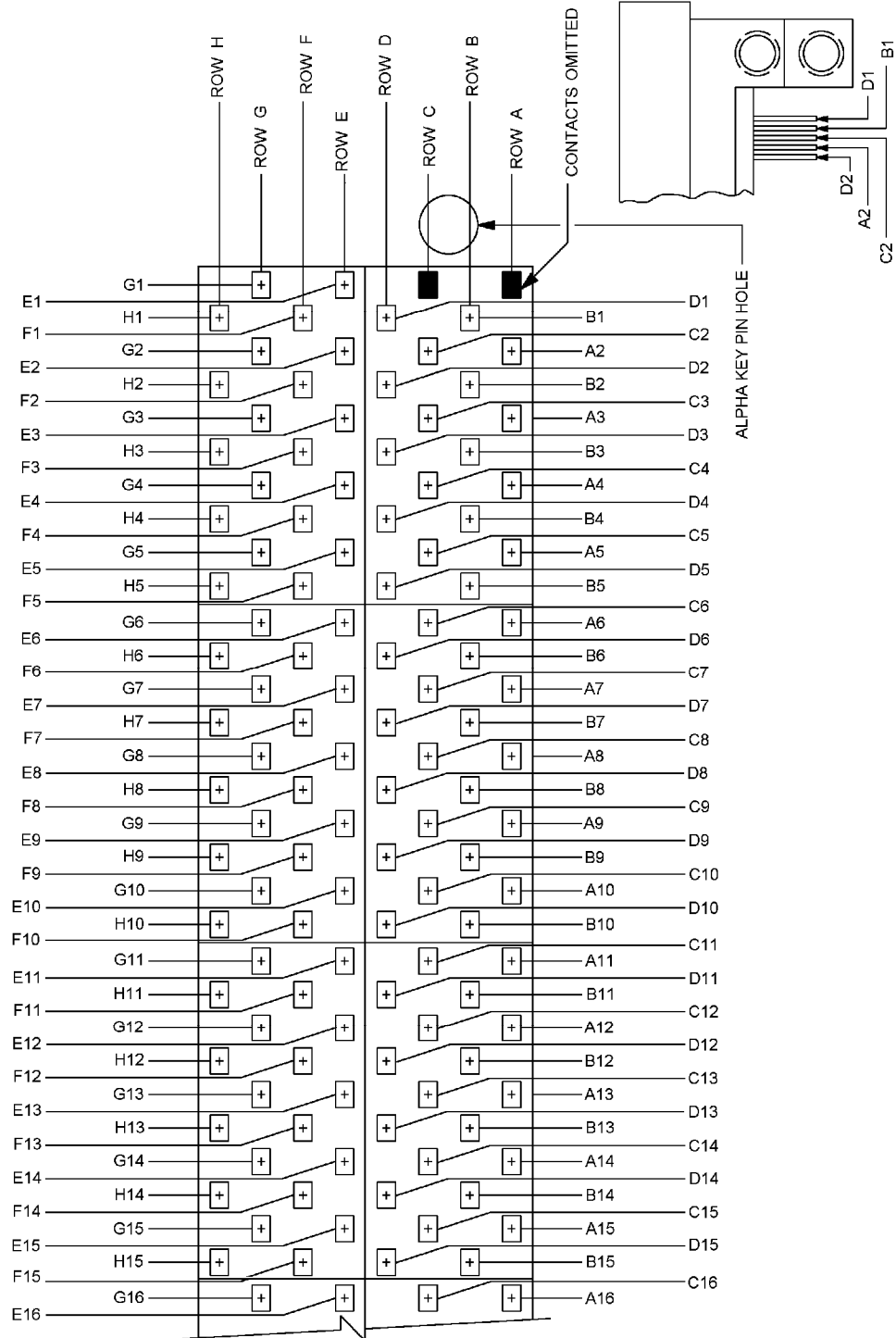
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FIGURE 4. PWB connector pin assignments.



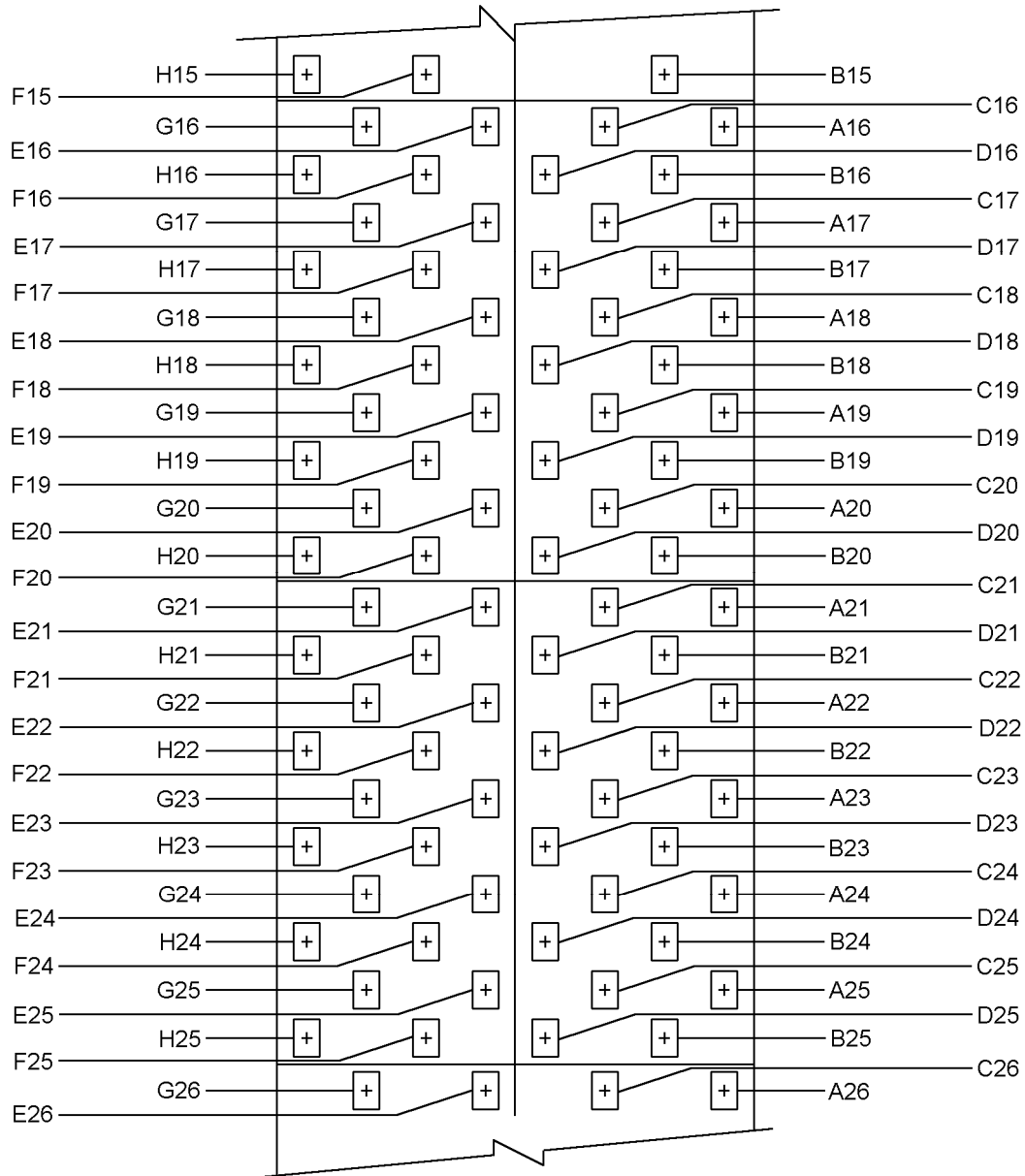
(SEE DETAIL VIEWS ON FOLLOWING PAGES)

FIGURE 5. Connector pinouts.



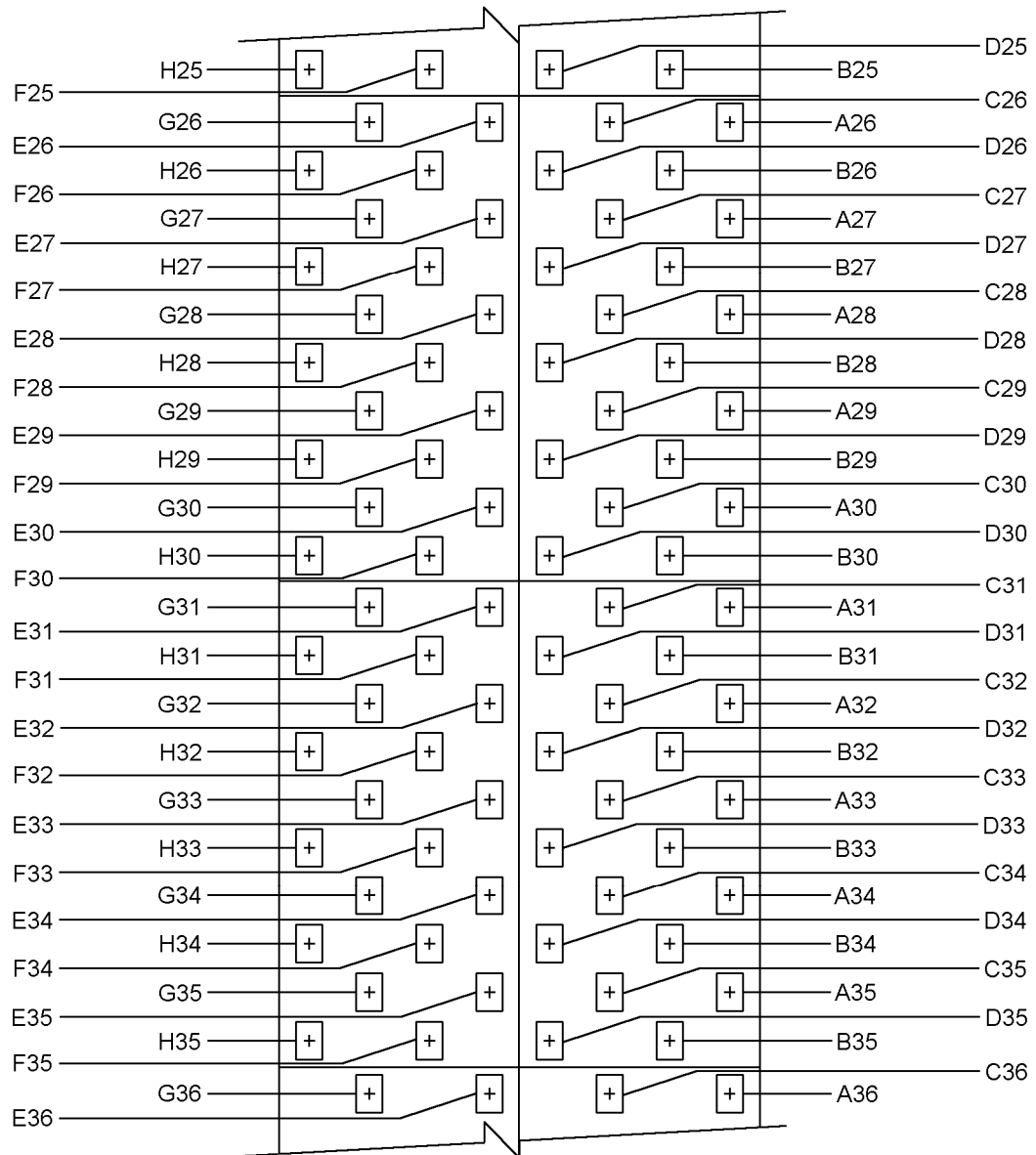
DETAIL A - ALPHA END

FIGURE 5. Connector pinouts - Continued.



DETAIL B - ALPHA END CENTER

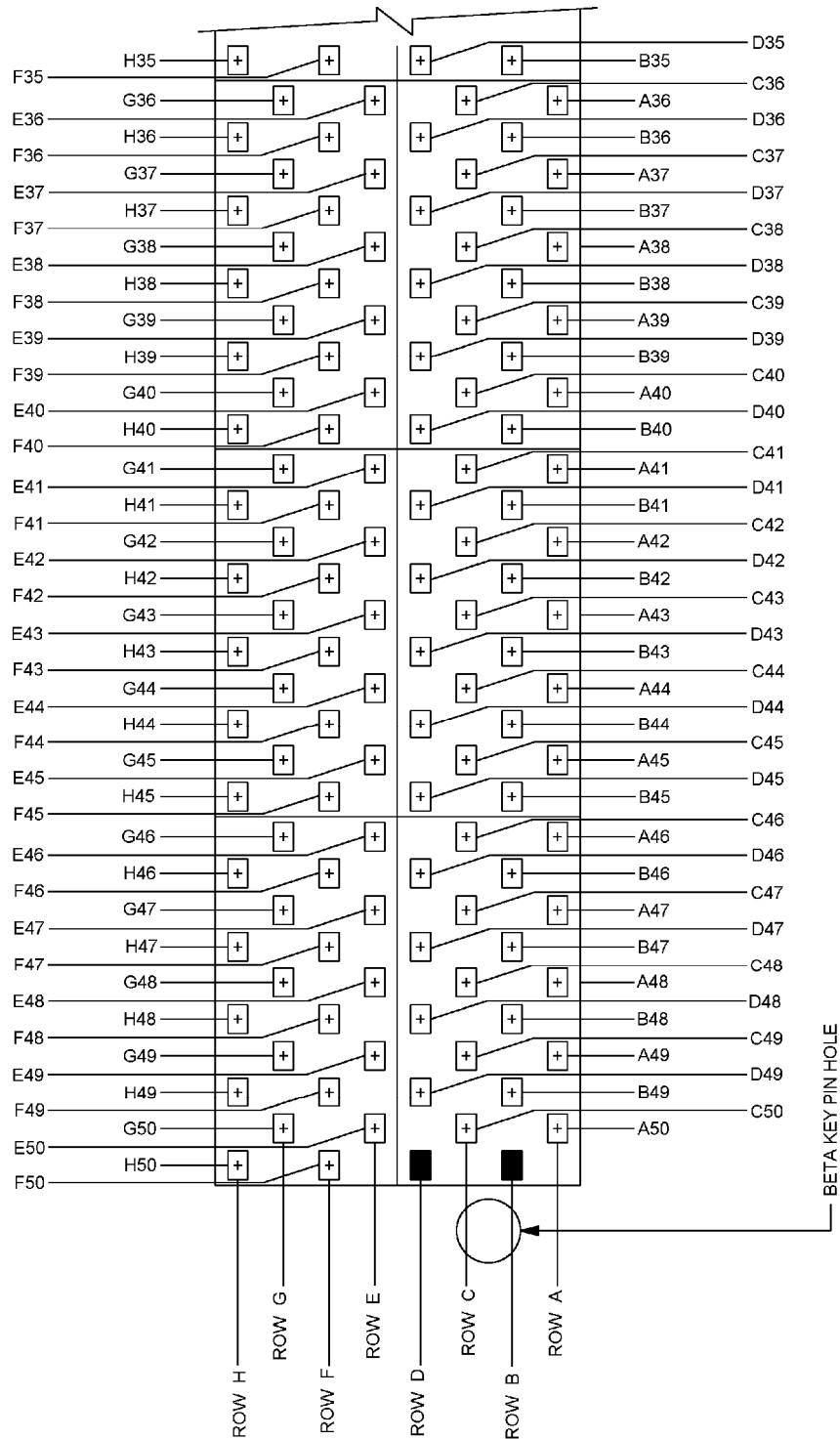
FIGURE 5. Connector pinouts - Continued.



DETAIL C - BETA END CENTER

FIGURE 5. Connector pinouts - Continued.

MIL-DTL-32234/7



DETAIL C - BETA END

FIGURE 5. Connector pinouts - Continued.

REQUIREMENTS:

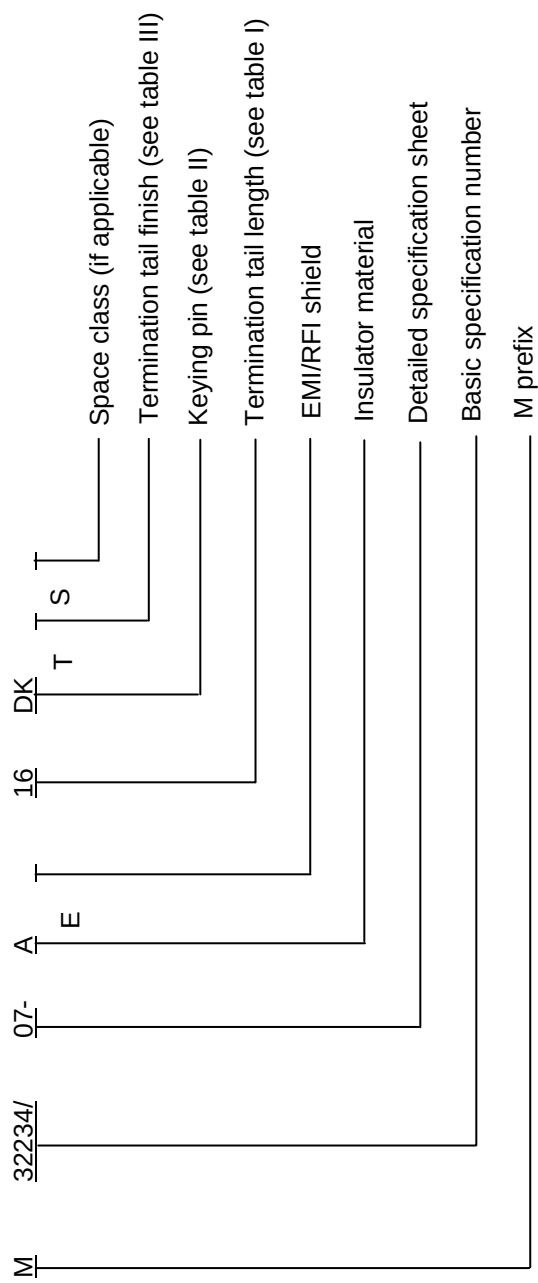
Dimensions and configurations: The design, construction, and physical dimensions shall be as specified on figures 1, 2, 3, 4, 5, and MIL-DTL-32234.

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-32234/8.

PIN example:



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

EMI/RFI shield.

- E - EMI/RFI shield
- N - None included

Termination tail length. The PIN will include a number 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) <u>3/</u>
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.

MIL-DTL-32234/7

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

MIL-DTL-32234/8
MIL-DTL-32234/9
MIL-M-24519

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-4829-007)

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>.