INCH-POUND

MIL-DTL-39024/4D
3 February 2003
SUPERSEDING
MIL-C-39024/4C
14 August 1991

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, TEST POINT TYPE, PRINTED WIRING TYPE; SINGLE TEST POINT (RIGHT ANGLE, 3-LEG MOUNTING), LOW VOLTAGE

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 and MIL-DTL-39024.

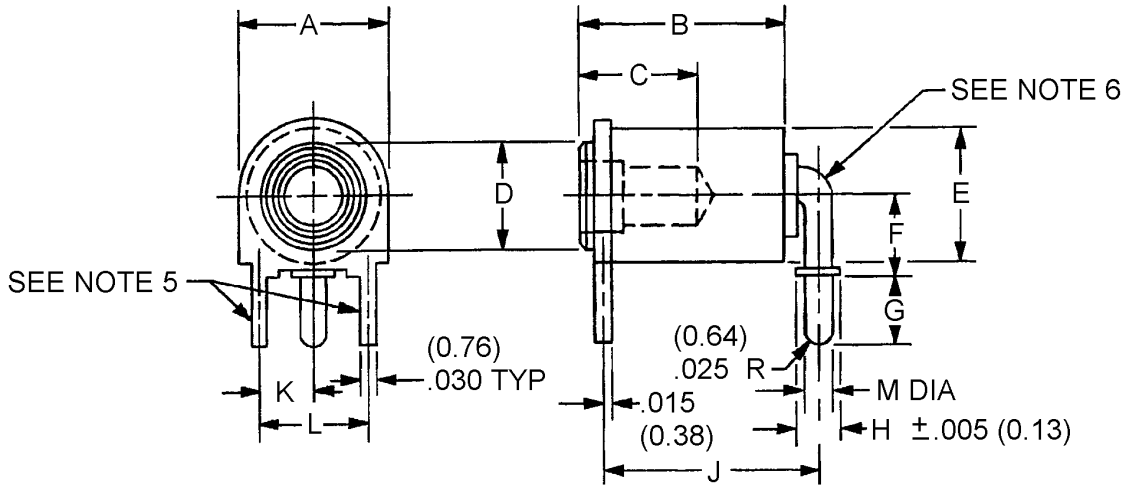

FIGURE 1. Configuration and dimensions.

Test probe	Dimensions					
	A max	B	C min	D dia	E	F
.080	.270 (6.86)	.38 (9.65)	.250 (6.35)	.188 (4.78)	.219 (5.56)	.140 (3.56)
.040	.156 (3.96)	.23 (5.84)	.171 (4.34)	.092 (2.34)	.125 (3.18)	.085 (2.16)
	G	H dia	J	K	L	M
.080	.125 (3.18)	.080 (2.03)	.400 (10.16)	.100 (2.54)	.200 (5.08)	.050 (1.27)
.040	.100 (2.54)	.050 (1.27)	.300 (7.62)	.050 (1.27)	.100 (2.54)	.030 (0.76)

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± .010 (0.25 mm) for three place decimals and ± .02 (0.51 mm) for two place decimals.
4. Metric equivalents are in parentheses.
5. Mounting legs. Not electrical terminal.
6. Contact terminal.

FIGURE 1. Configuration and dimensions – Continued.

TABLE I. Dash number, color and test probe.

Dash number	Color	Number in accordance with FED-STD-595	Test probe
-01	White	17875	.080
-02	Red	11105	"
-03	Black	17038	"
-04	Brown	10075	"
-05	Green	14110	"
-06	Orange	12246	"
-07	Blue	15123	"
-08	Yellow	13655	"
-09	Gray	16187	"
-10	Purple	27144	"
-11	Natural	---	.080
-21	White	17875	.040
-22	Red	11105	"
-23	Black	17038	"
-24	Brown	10075	"
-25	Green	14110	"
-26	Orange	12246	"
-27	Blue	15123	"
-28	Yellow	13655	"
-29	Gray	16187	"
-30	Purple	27144	"
-31	Natural	---	.040

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Insulation: Material shall be polytetrafluoroethylene in accordance with ASTM D1710.

Operating temperature: -65°C to +200°C.

Test probe: See table I.

Contact current rating: 5 amperes (max).

Insulation resistance: Test circuit figure in MIL-DTL-39024 shall be used.

Dielectric withstanding voltage (at sea level): Test circuit figure in MIL-DTL-39024 shall be used.

Test voltage:

.080 test probe: 3,000 volts rms, 60 hertz.
.040 test probe: 1,500 volts rms, 60 hertz.

Insertion and withdrawal forces:

.080 test probe:

Insertion force: 4.5 pounds (max).
Withdrawal force: 0.4 pound (min).

.040 test probe:

Insertion force: 3 pounds (max).
Withdrawal force: 0.4 pound (min).

Thermal shock: Shall be in accordance with method 107 of MIL-STD-202, condition C.

Marking:

Part or Identifying Number (PIN): M39024/4-(dash number from table I).

Operating conditions:

Operating voltage is as follows:

For .080 test probe:

Sea level: 1,500 volts rms, 60 hertz.
50,000 feet: 350 volts rms, 60 hertz.

For .040 test probe:

Sea level: 1,000 volts rms, 60 hertz.
50,000 feet: 350 volts rms, 60 hertz.

These connectors are designed for .062 inch nominal thickness printed wiring board.

Qualification: Not applicable.

Quality conformance inspection. Group A and B tests of MIL-DTL-39024 shall be applicable.

Note: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5935-4438-003)

Review activities:
Army - AR, CR4, MI
Navy - AS, CG, MC, OS
Air Force - 19