

INCH-POUND

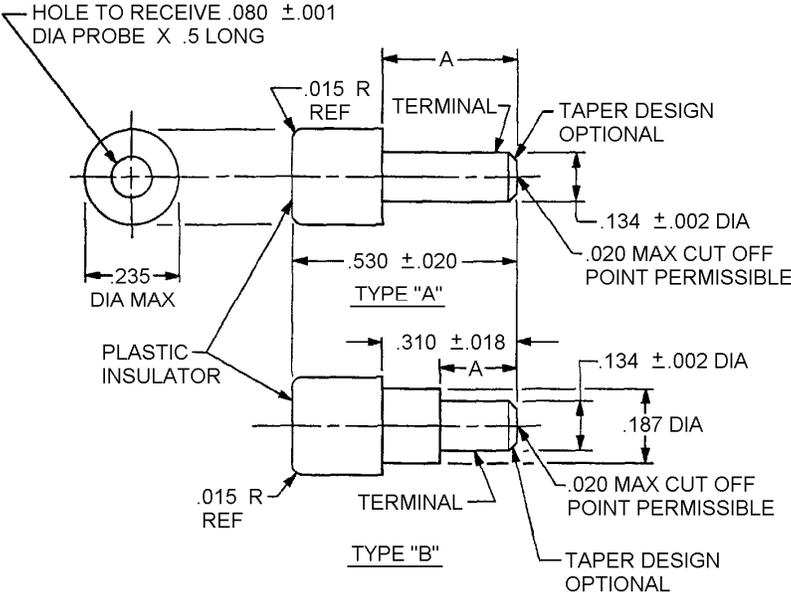
MIL-DTL-39024/15C  
 22 September 2008  
 SUPERSEDING  
 MIL-DTL-39024/15B  
 3 February 2003

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, TEST POINT TYPE, PRINTED WIRING TYPE;  
 SINGLE TEST POINT, LOW VOLTAGE, .080

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-39024.



Inches	mm	Inches	mm
.001	0.03	.136	3.45
.002	0.05	.187	4.75
.015	0.38	.235	5.97
.018	0.46	.310	7.87
.020	0.51	.500	12.70
.080	2.03	.510	12.95
.132	3.35	.530	13.46
.134	3.40	.550	13.97

- NOTES:
1. Dimensions are in inches. (See table for dimensions not specified on figure 1).
  2. Metric equivalents are given for information only and are based on 1 inch = 25.4 mm.
  3. Unless otherwise specified, tolerances are ± .010 (0.25 mm).
  4. All dimensionless pictorial configurations are for reference purposes only.

FIGURE 1. Configuration and dimensions.

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TABLE I. Design and identification data.

Dash number	Terminal style	Dimension	Insulation			
		A (inches $\frac{1}{16}$ )	Material	Color	Number in accordance with FED-STD-595/	
-01 -02 -03 -04 -05 -06 -07 -08 -09 -10 -11	Type "A" long	$\frac{.327}{16}$ (8.31) $\frac{.297}{16}$ (7.54)	L-P-410, ASTM D4066	White Red Black Brown Green Orange Blue Yellow Gray Purple Natural	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144 ---	
-12 -13 -14 -15 -16 -17 -18 -19 -20 -21 -22	Type "B" med short	$\frac{.180}{16}$ (4.57) $\frac{.160}{16}$ (4.06)		White Red Black Brown Green Orange Blue Yellow Gray Purple Natural	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144 ---	
-23 -24 -25 -26 -27 -28 -29 -30 -31 -32 -33	Type "B" short	$\frac{.120}{16}$ (3.05) $\frac{.100}{16}$ (2.54)		White Red Black Brown Green Orange Blue Yellow Gray Purple Natural	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144 ---	
-34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44	Type "A" long	$\frac{.327}{16}$ (8.31) $\frac{.297}{16}$ (7.54)		ASTM D1710	White Red Black Brown Green Orange Blue Yellow Gray Purple Natural	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144 ---

See notes at end of table.

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TABLE I. Design and identification data. – Continued.

Dash number	Terminal style	Dimension	Insulation		
		A (inches <sup>1/</sup> )	Material	Color	Number in accordance with FED-STD-595/
-45 -46 -47 -48 -49 -50 -51 -52 -53 -54 -55	Type "B" med short	<u>.180 (4.57)</u>  <u>.160 (4.06)</u>	ASTM D1710	White Red Black Brown Green Orange Blue Yellow Gray Purple Natural	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144 ---
-56 -57 -58 -59 -60 -61 -62 -63 -64 -65 -66	Type "B" short	<u>.120 (3.05)</u>  <u>.100 (2.54)</u>		White Red Black Brown Green Orange Blue Yellow Gray Purple Natural	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144 ---

<sup>1/</sup> Dimensions are in inches. Metric equivalents are given for information only.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

Insulation: Material as specified in table I.

Flammability: Dielectric materials shall be self-extinguishing in accordance with ASTM D635.

Test probe: 0.080 ± 0.001 inch in diameter and ½ -inch (min) length. Test probe shall be engaged a minimum of ½ inch.

Contact current rating: 5 amperes (max).

Contact resistance: A test probe in accordance with MIL-DTL-39024 shall be fully inserted in the connector. With a current of 5 amperes, potential drop shall be measured between the connector terminal and the extreme end of the solder cup on the test probe. Measured values shall be within the limits specified in table II.

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TABLE II. Potential drop (max) with 5 amperes of current.

Test	Before test	After test
Durability	6 mV	8 mV
Vibration	8 mV	10 mV
Salt spray (corrosion)	10 mV	15 mV

Dielectric withstanding voltage (at sea level):

Test voltage: 1,800 volts rms, 60 hertz, shall be applied for period of 15 seconds.

Insertion and withdrawal forces:

Insertion force: 5.0 pounds (max).

Withdrawal force: 0.4 pound (min).

Identification marking:

Part or Identifying Number (PIN): M39024/15-(dash number from table I).

Operating conditions:

Operating voltage is as follows:

1,200 volts rms, 60 hertz at sea level; 300 volts rms, 60 hertz at 80,000 feet.

Qualification: Not applicable.

Conformance inspection. Groups A and B tests in accordance with MIL-DTL-39024 shall be applicable.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to MIL-DTL-39024, this document references the following:

ASTM D635	FED-STD-595/14110
ASTM D1710	FED-STD-595/15123
ASTM D4066	FED-STD-595/16187
FED-STD-595/10075	FED-STD-595/17038
FED-STD-595/11105	FED-STD-595/17875
FED-STD-595/12246	FED-STD-595/27144
FED-STD-595/13655	L-P-410

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CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2008-048)

Review activity:

Army – MI

NOTE: The activities listed above were interested in this document as 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>.