

MIL-T-7928/5B
 8 June 1981
 Superseding
 MIL-T-7928/5A
 22 August 1979

MILITARY SPECIFICATION SHEET

TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, SPLICE, ELECTRIC, (PERMANENT, TYPE II, CLASS 1) FOR 105°C TOTAL CONDUCTOR TEMPERATURE

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

The complete requirements for procuring the splice described herein shall consist of this document and the latest issue of Specification MIL-T-7928. MIL-T-7928/5 is not for Navy use. For Navy use, use MIL-S-81824 splice.

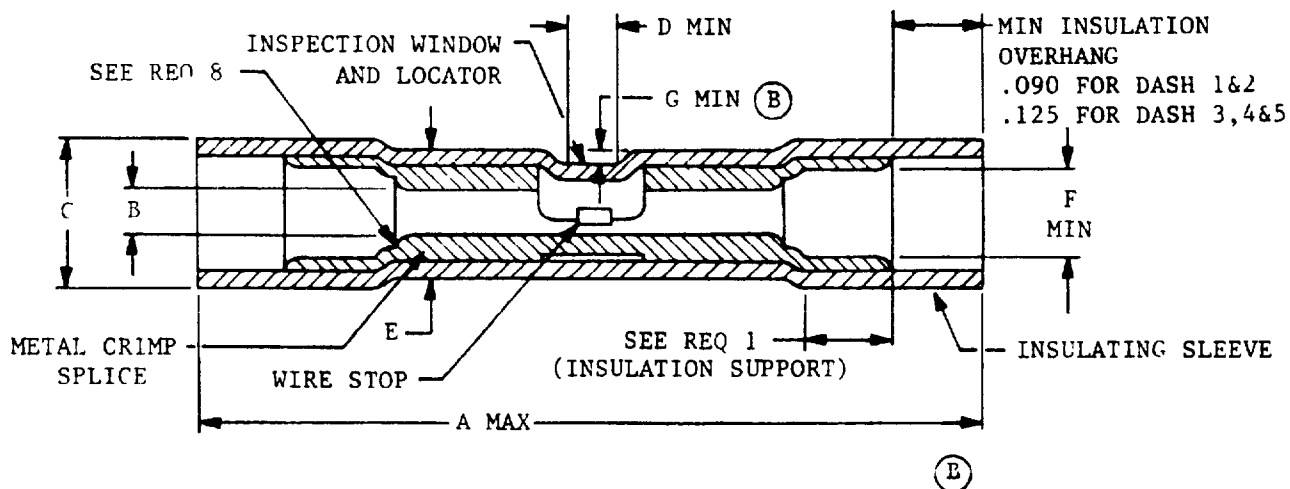


TABLE 1

DASH NO.	WIRE RANGE	A MAX.	B	C	D MIN.	E MIN.	F MIN.	G MIN.	INSULATING SLEEVE TRANSPARENT COLOR
-1	26-24	.860	$\frac{.033}{.027}$	$\frac{.160}{.125}$	.060	$\frac{.150}{.125}$	.070	.025	YELLOW
-2	24-20	1.035	$\frac{.055}{.043}$	$\frac{.170}{.135}$	.060	$\frac{.165}{.135}$	.100	.030	CLEAR
-3	22-18	1.300	$\frac{.073}{.052}$	$\frac{.220}{.160}$	.080	$\frac{.210}{.160}$	.110	.050	RED
-4	16-14	1.300	$\frac{.095}{.081}$	$\frac{.260}{.180}$	.080	$\frac{.250}{.180}$	.140	.050	BLUE
-5	12-10	1.700	$\frac{.139}{.129}$	$\frac{.320}{.250}$	.110	$\frac{.300}{.250}$	.200	.050	YELLOW

MIL-T-7928/5B

REQUIREMENTS:

1. Min Cable Insulation Support: .060 for dash 1 and 2
.094 for dash 3, 4 and 5
2. Material: Copper (See acquisition specification) or copper alloy. Material shall have adequate electrical conductivity and shall be sufficiently strong to resist cracking after forming and crimping.
3. Insulating Sleeve: See acquisition specification.
4. Finish: Metal, tin plated: See acquisition specification.
5. Dimension B to be determined as the average of two diameters measured at right angles.
6. The inspection window and locator shall provide a positive means of positioning splice in the applicable crimping tool and provide visible inspection of stripped wire ends.
7. Crimping Tools: Crimping tools for the MIL-T-7928/5 splices shall be as specified below.

SPLICE PN	TOOL	DIE
M7928/5-1	M22520/5-01	and M22520/5-101
M7928/5-2	M22520/10-01	or and M22520/10-102
M7928/5-3	M22520/5-01	and M22520/5-100
M7928/5-4	M22520/10-01	or and M22520/10-101
M7928/5-5	M22520/5-01	and M22520/5-100
	M22520/10-01	or and M22520/10-100

8. Insulation support and wire barrel may be multiple piece construction. Contour may vary from that shown, within specified dimensions, but wire lead-in to wire barrel shall be provided.
9. Qualification: For qualification, splices shall be tested with anyone of the following wires: MIL-W-22759/1, 9 or 11 or MIL-W-81381/1, 3 or 7.
10. Part Number: Consists of the letter "M", the basic number of this specification sheet, and a dash number taken from Table I.

Example: M7928/5-1 Splice for 26-24 Wire Range.

MIL-T-7928/5B

11. MIL-T-7928/5, upon issuance of a QPL for MIL-T-7928/5 supersedes MIL-T-7928/3 for procurement and new design. Existing stock of M7928/3-2, -3 and -4 are interchangeable with M7928/5-3, -4 and -5 and may be used until exhausted. Existing stock of M7928/3-1 should be scrapped since no QPL has been established. As replacement, use the following equivalent dash numbers.

M7928/5	M7928/3
-1	-1
-2	None
-3	-2
-4	-3
-5	-4

12. Flattening of insulation sleeve to form locator may cause the sleeve to exceed the E dimension by .050 max in the locator area for the -1 through -4 and .060 for the -5.

NOTES:

- Dimensions are in inches.
- Metric equivalents (to the nearest 0.1mm) are given for general information only and are based upon 1 inch = 25.4mm.

INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
.025	0.64	.070	1.78	.129	3.28	.220	5.59
.027	0.69	.073	1.85	.135	3.43	.250	6.35
.030	0.76	.080	2.03	.139	3.53	.260	6.60
.033	0.84	.081	2.06	.140	3.56	.300	7.62
.043	1.09	.090	2.29	.150	3.81	.320	8.13
.050	1.27	.094	2.39	.160	4.06	.860	21.84
.052	1.32	.095	2.41	.170	4.32	1.035	26.29
.055	1.40	.100	2.54	.180	4.57	1.300	33.02
.060	1.52	.110	2.79	.200	5.08	1.700	43.18
.062	1.57	.125	3.18	.210	5.33		

Custodians:

Navy - AS
 Army - ER
 Air Force - 85

Preparing Activity:

Navy - AS
 (Project No. 5940-0940)

Review Activities:

Navy - SH, EC
 Army - AV
 Air Force - 99, 11
 DSA-GS

User Activity:

Navy - MC
 Army -

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS This form is provided to solicit beneficial comments which may improve this document and enhance its use. DoD contractors, government activities, manufacturers, vendors, or other prospective users of the document are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Attach any pertinent data which may be of use in improving this document. If there are additional papers attach to form and place both in an envelope addressed to preparing activity. A response will be provided to the submitter, when name and address is provided, within 30 days indicating that the 1426 was received and when any appropriate action on it will be completed.

NOTE This form shall not be used to submit requests for waivers, deviations or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

DOCUMENT IDENTIFIER (Number) AND TITLE MIL-T-7928/5B Terminals, Lug and Splices, Conductor, Crimp Style, Splice Electric, (Permanent, Type II, Class 1)

NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

☐ VENDOR ☐ USER ☐ MANUFACTURER

1 ☐ HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? ☐ IS ANY PART OF IT TOO RIGID RESTRICTIVE LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW

A GIVE PARAGRAPH NUMBER AND WORDING

B RECOMMENDED WORDING CHANGE

C REASON FOR RECOMMENDED CHANGE(S)

2 REMARKS

SUBMITTED BY (Printed or typed name and address - Optional)

TELEPHONE NO

DATE

DD FORM 1426
1 OCT 76

EDITION OF 1 JAN 72 WILL BE USED UNTIL EXHAUSTED

FOLD

DEPARTMENT OF THE NAVY
Naval Air Engineering Center
Lakehurst, New Jersey 08733

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS

PERMIT NO 12803

WASHINGTON D C

POSTAGE WILL BE PAID BY THE DEPARTMENT OF THE NAVY

Engineering Specifications and Standards
Department (Code 93)
Naval Air Engineering Center
Lakehurst, NJ 08733



FOLD