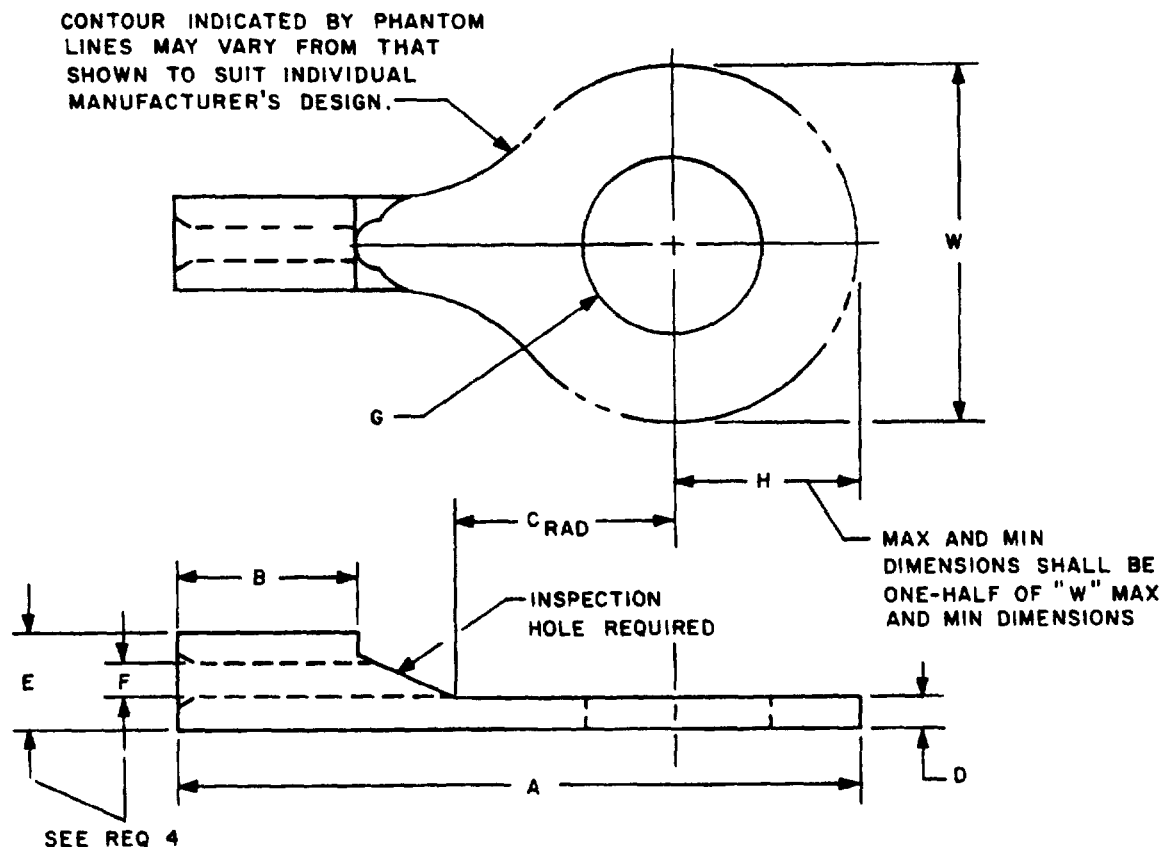


MIL-T-7928/7  
8 June 1981

## MILITARY SPECIFICATION SHEET

Terminal Lug and Splices, Conductor, Crimp Style, CopperTerminal Lug, Crimp Style, Copper, Uninsulated, Ring Tongue  
Type I, Class 1  
For 175°C Total Conductor TemperatureThis specification is approved for use by all Departments  
and Agencies of the Department of Defense.The complete requirements for acquiring the terminals described herein  
shall consist of this document and the latest issue of specification  
MIL-T-7928.

FSC 5940

MIL-T-7928/7

TABLE I

Dash No.	Wire Size	Stud Size	A Max.	B Min.	C Min. Rad.	D		E Dia.	F Dia.	G		W		MIL-T-16366 (SHIPS) Reference
						Max.	Min.			Max.	Min.	Max.	Min.	
-1	22-18	2 (.086)	.560	.240	.115	.037	.023	$\frac{.165}{.110}$	$\frac{.070}{.052}$	.098	.090	.230	.198	1-2
-2		4 (.112)	.122		.114									
-3	22-18	6 (.138)	.747	.200	.312	.380	.023	$\frac{.165}{.110}$	$\frac{.070}{.052}$	.152	.142	.320	.275	L33, 1-2
-4		10 (.190)	.747	.200						.193	.275			
-5	16-14	5/16 (.3125)	.953	.380	.312	.380	.023	$\frac{.192}{.139}$	$\frac{.098}{.081}$	.338	.323	.540	.450	L65, 1-2
-6		3/8 (.375)	1.125							.380	.385			
-7	16-14	6 (.138)	.747	.200	.312	.380	.023	$\frac{.192}{.139}$	$\frac{.098}{.081}$	.152	.142	.320	.275	L33, 2-1/2-4
-8		10 (.190)	.747	.200						.193	.275			
-9	16-14	5/16 (.3125)	.953	.380	.312	.380	.023	$\frac{.192}{.139}$	$\frac{.098}{.081}$	.338	.323	.540	.450	L65, 2-1/2-4
-10		3/8 (.375)	1.125							.380	.385			
-11		4 (.112)	.560	.115						.122	.114	.250	.240	2-1/2-4

## MIL-T-7928/7

## Requirements:

1. Material: Soft copper, QQ-C-502, Class A  
Copper tubing, ASTM B75-68  
Gilding Metal, 95 percent copper, 5 percent zinc.
2. Finish: Tin plated. See acquisition specification.
3. Qualification testing: For qualification, terminals shall be tested with any one of the following wires: MIL-W-22759/1, 9 or 11 or MIL-W-81381/1, 3 or 7, and tooling as follows: MIL-C-22520/24 hand crimping tool. MIL-C-915 and MIL-C-2194 cables may be used with MIL-C-22520/25 or MIL-C-22520/24 hand crimping tool.
4. Average diameter of "E" and "F" dimensions must be within qualification dimensions. Max and min. dimensions due to ovalization must be within 3% of specification requirements.
5. Where split barrel construction is used, the split shall be permanently sealed and shall not open as a result of crimping.
6. Part number. The part numbers shall consist of the letter "M", specification sheet number, and dash number.

Example of Part Number: M7928/7-2 terminal fit size 22-18 wire with 0.190 stud size hole.

## Notes:

1. Dimensions in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

Table II (Ref)

Size	Navy Cable Size
22-18	1 (1)
	1 (7)
	1 (10)
	1 - 1/2 (1)
	1 - 1/2 (7)
	1 - 1/2 (16)
	1 - 1/2 (41)
	2 (7)
16-14	2 - 1/2 (1)
	2 - 1/2 (19)
	2 - 1/2 (26)
	3 (7)
	4 (1)
	4 (19)
	4 (7)
	4 (41)

## MIL-T-7928/7

TABLE III

Inch	mm	Inch	mm	Inch	mm
.023	0.58	.165	4.19	.320	8.13
.037	0.94	.170	4.32	.323	8.20
.052	1.32	.190	4.83	.338	8.59
.070	1.78	.192	4.88	.375	9.53
.081	2.06	.193	4.90	.380	9.65
.086	2.18	.198	5.03	.385	9.78
.090	2.29	.200	5.08	.400	10.16
.098	2.49	.203	5.16	.450	11.43
.110	2.79	.213	5.41	.520	13.21
.112	2.82	.223	5.66	.528	13.41
.114	2.90	.230	5.84	.540	13.72
.115	2.92	.240	6.10	.560	14.22
.122	3.10	.245	6.22	.609	15.47
.138	3.51	.250	6.35	.747	18.97
.139	3.53	.255	6.48	.953	24.21
.142	3.61	.275	6.99	1.125	28.58
.152	3.86	.312	7.92		
.156	3.96	.3125	7.94		

## Custodians:

Army - ER

Air Force - 85

## Review Activities:

Navy - SH, EC, OS

Air Force - 99

## Preparing Activity:

Navy - AS

## User Activity:

Navy - MC

Army - AV

(Project No. 5940-0857)

## 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-I-7928// Terminal Lug, Crimp Style,  
Copper, Uninsulated, Ring Tongue Type I, Class 1 for 175°C Total Conductor  
NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER Temperature.

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

Replaces edition of 1 Jan 72 which may be used

S/N 0102-LF-001 4260

FOLD

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



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

**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