



PERFORMANCE DETAILS							
WIRE SIZE	ABRASION TEST				FLAWS TEST	BEND TEST AND COLD BEND	
	RESISTANCE MINIMUM INCHES OF TAPE	TENSION LOAD LB	WEIGHT SUPPORT BRACKET	WEIGHT LB	MIN AC VOLTAGE 60 CYCLE RMS FINISHED WIRE	MANDREL DIAMETER IN INCHES	TEST LOAD (LB)
22	30	1	A	1	2500	6	2
20							
18							
16							
14							
12	20	B	3	3		8	3
10							
8							
6							
4							
2	4.0	2	C	4.25	10	10	
1							
0							
00							
000							
0000	52	2	15	15	20	20	
00							
000							
0000							
0000							
0000	58	25	20	20	25	25	
0000							
0000							
0000							
0000							
0000	64	30	30	30	30	30	
0000							
0000							
0000							
0000							
0000	70	30	30	30	30	30	
0000							
0000							
0000							
0000							

FINISHED WIRE CONSTRUCTION						
DASH NO.	WIRE SIZE	RESISTANCE AT 20°C (68°F) OHMS/1000 FT MAX	NO. OF STRANDS	DIAMETER IN INCHES		WEIGHT LB/1000 FT MAX
-22	22	23.7	19	.108	±.008	10
-20	20	14.6		.117		12
-18	18	9.14		.127		15
-16	16	6.85		.137	±.010	19
-14	14	4.32		.160		25
-12	12	2.68	.175	35		
-10	10	1.59	49	.220	±.012	55
-8	8	.936	133	.268		85
-6	6	.591		.330		127
-4	4	.375		.395		192
-2	2	.241		.472		291
-1	1	.196		817	.515	347
-0	0	.153	1045	.555	±.018	415
-00	00	.120	1330	.615		520
-000	000	.096	1672	.680		648
-0000	0000	.077	2109	.750		793

Ⓢ CANCELED AFTER 29 MARCH 1972.

USE MIL-W-25038/1.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

P.A. USAF - 11 Other Cust Navy - AS	TITLE WIRE, ELECTRICAL - HIGH TEMPERATURE AND FIRE RESISTANT	MILITARY STANDARD MS27125
PROCUREMENT SPECIFICATION MIL-W-25038	SUPERSEDES:	SHEET 1 OF 1

Review activities: USAF - 11
Navy - AS

This standard has been approved by the Air Sys. (Department of the Navy) and the Department of the USAF and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 5 Mar 62 REVISED A 9 Apr 63 B 19 May 65 C 29 Mar 72