

REVISIONS				
SYMB	DESCRIPTION	BY	DATE	APPROVED
J	REPLACES REV H WITH CHANGES SEE NOR 84B0006.4		2/21/84	R.S.D.
K	SEE NOR 86B0070.16		07/19/77	R.S.D.
L	SEE NOR 87B0048.1		07/16/77	R.S.D.
M	SEE NOR 88B0052.7		07/12/77	FAA
N	SEE NOR 92B0069.8		11/11/76	HE
P	SEE NOR 93B0069.7		11/16/75	HE
R	SEE NOR 95B0051.3		12/1/73	F.B. King
T	SEE NOR 97B0025.2RI		08/12/73	FAA/AV
U	SEE NOR 03B018-02		8/21/03	DLN

- NOTES:
- TEST 10% OF LOT. IN EVENT OF FAILURE, CHECK ENTIRE LOT.
 - TEST 100% OF LOT.
 - TEST 2 SAMPLES FROM EACH LOT.
 - CONTINUOUS LENGTHS OF CORDAGE SHALL BE 25 FEET MIN.

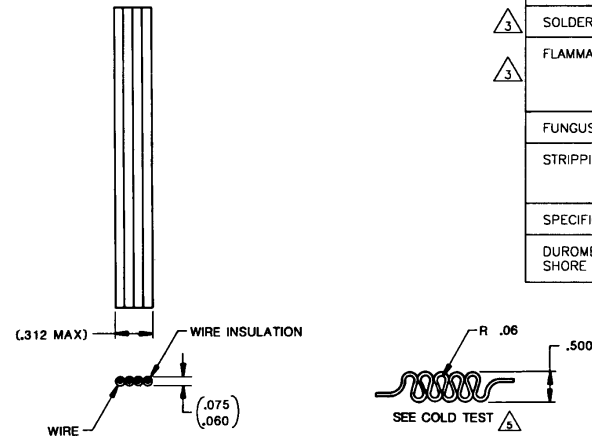
COLD TEST
 WITH A 36 INCH SPECIMEN OF COMPLETED WIRE KINKED AS SHOWN IN SKETCH, AND AFTER 4 HOURS AT -40°C, IT SHALL BE EXTENDED TO 35 INCHES LONG IN 1/2 TO 1 SEC BY PULLING EACH END OF SPECIMEN. THERE SHALL BE NO CRACKING OF INSULATION. THE KINKED SECTION OF THE SPECIMEN SHALL THEN BE IMMersed, EXCEPT FOR THE ENDS, IN TAP WATER AT ROOM TEMPERATURE FOR 1 HOUR AND SHALL THEN WITHSTAND FOR ONE MINUTE WITHOUT FAILURE THE DIELECTRIC TEST SPECIFIED. 600 VOLTS DC SEE NOTE 3.

6. INDIVIDUAL SPECIFICATION SHEET FOR WIRE, ELECTRICAL (INSULATED)
 THIS SPECIFICATION COVERS INSULATED WIRE FOR USE IN FUZE CONTROL, CABLE ASSEMBLIES AT TEMPERATURES RANGING FROM -80°F TO +190°F AND A MAXIMUM POTENTIAL RATING OF 500 VOLTS. INSULATION MATERIAL MUST BE COMPATIBLE WITH OTHER MATERIALS IN THE CABLE ASSEMBLY. THE WIRE SHALL CONFORM TO MILITARY SPECIFICATION MIL-DTL-1687B, LATEST REVISION, WITH THE FOLLOWING DETAILED REQUIREMENTS. THIS SHEET SHALL GOVERN WHERE ANY CONFLICTS ARISE.

7. **CONSTRUCTION**
- FIRST: A TIN OR SILVER-COATED CONDUCTOR AS SPECIFIED IN MIL-DTL-1687B.
- SECOND: A WALL OF INSULATION AS SPECIFIED BELOW. MATERIAL SHALL BE SILICONE RUBBER PER FEDERAL SPECIFICATION A-A-5958B, CLASS 3B, GRADE 50, COLOR WHITE OR GREY.

CONDUCTOR	NO. 22 AWG
NUMBER OF STRANDS (MINIMUM)	7
STRAND DIAMETER	.010
DIAMETER OVER CONDUCTOR (NOMINAL)	.030
LENGTH OF LAY (MAXIMUM)	.50
DIAMETER OVER INSULATION	
MINIMUM	.060
MAXIMUM	.075
MINIMUM WALL THICKNESS	.015
MAXIMUM WIDTH OF COMPLETED 4-CONDUCTOR WIRE	.312

8. FOR PURPOSES OF SAMPLING, THE MAXIMUM QUANTITY OF WIRE IN ANY ONE LOT SHALL NOT EXCEED 250,000 FEET, IDENTIFY WIRE NUMBER 1 BY FLAT OR RIBBED SURFACE. INSULATION WALL THICKNESS (.015 MIN) SHALL NOT BE DECREASED.



TEST REQUIREMENTS	
TEST	REQUIREMENT (SEE MIL-DTL-1687B)
1. CONDUCTOR	16.7 OHMS MAX/1000 FT.
3. INSULATION TENSILE STRENGTH ELONGATION	1100 P.S.I. (MINIMUM) 150 PERCENT (MINIMUM)
2. COMPLETED WIRE SPARK TEST	2 KV
1. DIELECTRIC STRENGTH	600 V
1. INSULATION RESISTANCE	5 MEGOHMS/1000 FEET (MINIMUM) AT 600 VDC
3. HEAT RESISTANCE	600V 1/8 INCH (MAXIMUM) SHRINKAGE
3. SOLDERING	1/32 (MAXIMUM) SHRINKAGE
3. FLAMMABILITY	30 SECONDS (MAXIMUM) BURNING TIME 3 INCHES (MAXIMUM) FLAME TRAVEL
FUNGUS RESISTANCE	FUNGUS RESISTANCE
STRIPPING	INSULATION SHALL BE FREE STRIPPING ON COMMERCIAL WIRE EQUIPMENT
SPECIFIC GRAVITY	1.45 MAX
DUROMETER HARDNESS, SHORE A SCALE	50 MIN

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- A CLASSIFICATION OF CHARACTERISTICS (DOD-STD-2101)
- CRITICAL — NONE
 MAJOR — NONE
 MINOR — NONE

7542943	---	M73C CABLE
7542943	---	M74A CABLE
7542943	---	M73 CABLE
7542943	---	M72 CABLE
7542943	---	M71 CABLE
7542943	---	M49 CABLE
7542943	---	M50 CABLE
7542943	---	M48 CABLE
NEXT ASSY	LISTED ON	USED ON
APPLICATION		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± .XX DECIMALS ±.06 .XXX DECIMALS ±.005 PART SHALL BE FREE OF BURRS BROKEN EDGES — MAX FILLETS — R MAX SURFACE ROUGHNESS ✓

PACIFIC MISSILE TEST CENTER POINT MUGU, CALIF. 93042	
PE	2/21/84
CM	2/21/84
QA	2/21/84
CHECKED	2/21/84
DRAWN	TRIGA 2/1/84
APPROVED FOR NAVAIRSYSCOM	
BY DIRECTION	

DEPARTMENT OF THE NAVY
 NAVAL AIR SYSTEMS COMMAND
 WASHINGTON, D.C. 20380

CORDAGE, BULK, CABLE ASSEMBLY FUZE CONTROL

SIZE: D 30003
 CODE IDENT NO: 7542944
 NAVAIRSYSCOM DWG NO. 7542944
 REV U

SCALE: NONE UNIT: WT SHEET 1 OF 1

7542944