

SPECIFICATION FOR WIRE, INSULATED, ELECTRICAL USED IN MANUFACTURING 6 PIN SUBMINIATURE CONNECTORS

USED ON —

DWG NO 849623  
THIS DRAWING IS A CONTROLLED DOCUMENT  
DIMENSIONING AND TOLERANCING PER ASME Y14.5M (USD STANDARDS)

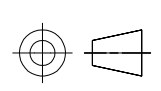
1. SCOPE:  
1.1 THIS SPECIFICATION COVERS THE REQUIREMENTS FOR HIGH VOLTAGE WIRE WHICH IS PRIMARILY INTENDED FOR USE IN APPLICATIONS REQUIRING A HIGH DIELECTRIC STRENGTH AT ELEVATED TEMPERATURES FOR MILITARY ELECTRONIC AND ELECTRICAL EQUIPMENT.
2. APPLICABLE SPECIFICATIONS:  
2.1 THE FOLLOWING DOCUMENTS SHALL FORM A PART OF THIS SPECIFICATION ONLY TO THE EXTENT SPECIFIED HEREIN.  
SPECIFICATION:  
MILITARY  
MIL-W-16878-D (NAVY) WIRE, ELECTRICAL, INSULATED HIGH TEMPERATURE  
MIL-W-16878/8 (NAVY) WIRE, ELECTRICAL, TYPE FF  
MIL-STD-104-A LIMITS FOR ELECTRICAL INSULATION COLOR
3. REQUIREMENTS:
  - 3.1 TEMPERATURE: THE CONTINUOUS OPERATING TEMPERATURE RANGE SHALL BE FROM -65° C TO +200° C.
  - 3.2 CONDUCTOR: THE CONDUCTOR SHALL BE SILVER COATED COPPER WIRE. NUMBER 22 AWG, 19 STRANDS OF NUMBER 34 AWG, NOMINAL DIAMETER OVER CONDUCTOR .032 INCHES.
  - 3.3 RESISTANCE D.C.: THE MAXIMUM CONDUCTOR RESISTANCE SHALL BE 14.6 OHMS PER 1000 FEET AT 25° C.
  - 3.4 INSULATION: THE CONDUCTOR SHALL BE CONTINUOUSLY COVERED WITH A CONCENTRIC EXTRUDED SILICONE RUBBER AND HAVE A DUROMETER OF BETWEEN 65 AND 70 SHORE A. THE INSULATION SHALL BE SMOOTH, CLEAN, AND FREE OF NICKS, CUTS AND HOLES.
    - 3.4.1 WIRE COATING: WIRE IS TO BE COATED WITH AN APPROPRIATE NON-STICK MATERIAL SUCH AS TALC TO PERMIT AUTOMATIC DE-REELING OF WIRE.
  - 3.5 WEIGHT: THE WEIGHT OF THE CONDUCTOR AND PRIMARY INSULATION SHALL BE .006 LB/FT.
  - 3.6 LIFE TEST: THE WIRE SHALL BE CAPABLE OF WITHSTANDING 5.5 KV RMS, 60 CYCLE AC ±200 VOLTS FOR A CONTINUOUS PERIOD OF 250 HOURS AT A SUSTAINED TEMPERATURE OF 200° C±3° C IN AIR WITHOUT BREAKDOWN.

- 3.7 SPARK TEST: PER MIL-W-16878/8 EXCEPT 5.5 KV.
- 3.8 HEAT RESISTANCE: PER MIL-W-16878/8 EXCEPT 5.5 KV AC RMS 60 HZ
- 3.9 DIELECTRIC TEST: PER MIL-W-16878/8 EXCEPT 5.5 KV AC RMS 60 HZ
- 3.10 DIMENSIONS: THE DIAMETER OVER THE SILICONE INSULATION SHALL BE .090-.096.
- 3.11 PRIMARY INSULATION PULL TEST: ONE POUND MINIMUM USING A THREE INCH INSULATION LENGTH PER FEDERAL TEST METHOD STANDARD NO. 228, METHOD 2231.


BLACK	1-849623-0
WHITE	849623-9
GRAY	849623-8
VIOLET	849623-7
BLUE	849623-6
GREEN	849623-5
YELLOW	849623-4
ORANGE	849623-3
RED	849623-2
BROWN	849623-1
WIRE COLOR	PART NUMBER

LOC							
DIST							
	K	REV PER ECO-13-004983	20MAR13	KG	DE		
P	LTR	REVISION RECORD	DATE	DWN	APVD		

DIMENSIONS: INCHES




ANGLES ± -

SURFACE TEXTURE 

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	± -
1 PLC	± -
2 PLC	± -
3 PLC	± -
4 PLC	± -

DWN	6-15-98	MATERIAL		HEAT TREAT	
C.C.THOMAS		-		-	
CHK	6-23-98				
S.GLATFELTER					
APVD	6-23-98				
S.GLATFELTER				TE Connectivity	
NAME	WIRE,SILICONE,22 AWG,LGH				
SCALE	1:1	SIZE	A3	DRAWING NO	849623
				SHEET	1 OF 1
				REV	K

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