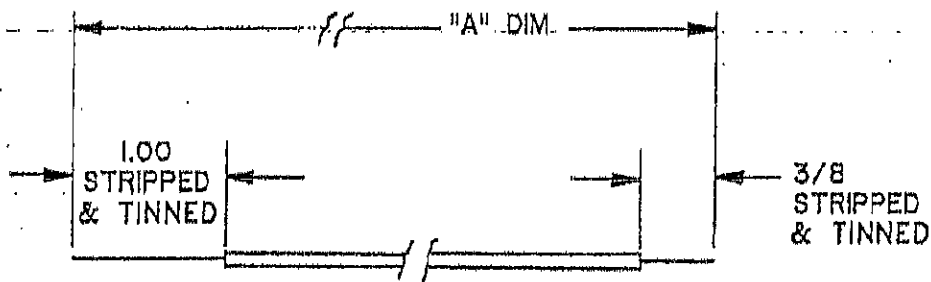


APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
	807432	-	50028432 ORIGINATED	31MAY91	DWL M
		A	SCO 533II DWP	3/20/02	MEF
		B	SCO 54861 DWP	6/21/05	MEF

DWG NO G520880



PART NUMBER	"A" DIMENSION
X G520880-001	7-1/2 <i>C.A.</i>
G520880-002	4-5/8

MAKE PART(S) FROM T73-4-20P9

NOTE: TIN PER QQ-S-571 USING SN60

(M16878/5-BGE-9) X

INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100, ANSI Y14.5M-1982

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN <input checked="" type="checkbox"/> INCHES <input type="checkbox"/> MILLIMETERS TOL: ANGLES ± WHOLE NUMBERS ± 1 PLACE DECIMALS ±.03 2 PLACE DECIMALS ±.003 3 PLACE DECIMALS ±.0003	CONTR. NO.	Raytheon Company Lexington MA 02173			
	DR. V. <i>[Signature]</i>			5-31-91	
	CHK.		DRAWING TITLE	LEADWIRE	
	APPROVED		SIZE	A	
MATERIAL:	BY DIRECTION OF	FSCM NO.	49956	DRAWING NO.	G520880
		SCALE	1/1	SHEET	1 OF 1

RAYTHEON RAYTHEON COMPANY LEXINGTON MA 02173	FSCM NO.	SPEC NO.
	49956	T73-4
SHEET		REV
1 OF 6		10

TYPE OF SPEC **PURCHASE SPECIFICATION**

TITLE OF SPEC **TEFLON INSULATED LEAD WIRE**
(DO NOT CONFUSE WITH 73-4)

FUNCTION	APPROVED	DATE	FUNCTION	APPROVED	DATE
WRITER	J. Ahearn	2/14/68			
	R. E. Foley	2/14/68			

REVISIONS

CHK	DESCRIPTION	REV	CHK	DESCRIPTION	REV
WR	SCO 51315 DWP 7/3/97	7			
	SCO 52083 DWP 8/9/99	8			
WR	SCO 53185 DWP 11/27/01	9			
	SCO 53319 Rev DWP 02/27/02	10			

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REVISION																				
SHEET NO.																				
REV STATUS OF SHEETS	REVISION	10	10	10	10	10	10													
	SHEET NO.	1	2	3	4	5	6													

Raytheon Raytheon Company Lexington, MA	FSCM NO.	Spec No. T73-4	
	49956	SHEET 2 OF 6	REV 10

Ref. GOVERNMENT SPEC: MIL-STD-104, MIL-W-16878/5, TYPE EE, MIL-STD-681B.

Description:
 This specification covers extruded Teflon coated stranded silver plated copper lead wire suitable for use at operating temperatures from -90° to 200° C. and working voltages to 1000 RMS.

1. Requirements:

1.1 Wire purchased to this specification shall meet the requirements of Government Specification MIL-W-16878/5, Type EE. Color of insulation shall be in accordance with MIL-STD-104 and MIL-STD-681B.

1.2 Materials

1.2.1 Conductor - Silver plated copper with stranding, dimensions and resistance, as specified in Table 1.

1.2.2 Insulation - Extruded polytetrafluoroethylene, minimum dielectric strength 3000 volts RMS, dimensions as specified in Table 1.

2. Packaging and Marking

2.1 Wire shall be supplied on 500 foot or 1000 foot spools.

2.2 Spools shall be marked with manufacturer's name, wire type, wire size and footage.

2.3 Spools shall be packaged in cartons of sufficient strength and tightness to prevent physical damage to the wire and keep it clean and dry during shipment.

2.4 Cartons shall be marked with manufacturer's name, product identification, Raytheon purchase order number and Raytheon Purchase Specification number.

3. Raytheon Part Numbering System

3.1 Lead wire specified herein shall be identified as T73-4, followed by a number indicating equivalent AWG wire size and an additional number representing the color of the insulation. If no color is specified, color shall be white.

EXAMPLE: T73 4 - 20 - 9

WIRE P/N	WIRE SIZE	COLOR
	(20 GAUGE)	(WHITE)

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Raytheon		Raytheon Company Lexington, MA		FSCM NO. 49956	Spec No. T73-4	
					SHEET 3 OF 6	REV 10
<p>LISTED IN FIGURE 1 ARE THE FIRST 25 PREFERRED COLOR SEQUENCE FOR SINGLE WIRES, SYSTEM 1 PER MIL-STD-681.</p>						
<u>COLOR NO.</u>	<u>BASE COLOR</u>	<u>FIRST STRIPE OR BAND</u>	<u>SECOND STRIPE OR BAND</u>			
0	Black					
1	Brown					
2	Red					
3	Orange					
4	Yellow					
5	Green					
6	Blue					
7	Violet					
8	Gray					
9	White					
90	White	Black				
91	White	Brown				
92	White	Red				
93	White	Orange				
94	White	Yellow				
95	White	Green				
96	White	Blue				
97	White	Violet				
98	White	Gray				
901	White	Black	Brown			
902	White	Black	Red			
903	White	Black	Orange			
904	White	Black	Yellow			
905	White	Black	Green			
906	White	Black	Blue			
<p>FIGURE 1</p>						

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Raytheon		Raytheon Company Lexington, MA		FSCM NO. 49956	Spec No. T73-4	
				SHEET 4 OF 6		REV 10
<u>COLOR NO.</u>	<u>BASE COLOR</u>	<u>FIRST STRIPE OR BAND</u>	<u>SECOND STRIPE OR BAND</u>			
907	White	Black	Violet			
908	White	Black	Gray			
912	White	Brown	Red			
913	White	Brown	Orange			
914	White	Brown	Yellow			
915	White	Brown	Green			
916	White	Brown	Blue			
917	White	Brown	Violet			
918	White	Brown	Gray			
923	White	Red	Orange			
924	White	Red	Yellow			
928	White	Red	Green			
926	White	Red	Blue			
927	White	Red	Violet			
928	White	Red	Gray			
934	White	Orange	Yellow			
935	White	Orange	Green			
936	White	Orange	Blue			
937	White	Orange	Violet			
938	White	Orange	Gray			
945	White	Yellow	Green			
946	White	Yellow	Blue			
947	White	Yellow	Violet			
948	White	Yellow	Gray			
956	White	Green	Blue			
957	White	Green	Violet			
958	White	Green	Gray			
967	White	Blue	Violet			
968	White	Blue	Gray			
978	White	Violet	Gray			

FIGURE 2

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Raytheon		Raytheon Company Lexington, MA		FSCM NO. 49956	Spec No. T73-4
				SHEET 5 OF 6	REV 10
<u>COLOR NO.</u>	<u>BASE COLOR</u>	<u>FIRST STRIPE OR BAND</u>	<u>SECOND STRIPE OR BAND</u>	<u>THIRD STRIPE OR BAND</u>	
9012	White	Black	Brown	Red	
9013	White	Black	Brown	Orange	
9014	White	Black	Brown	Yellow	
9015	White	Black	Brown	Green	
9016	White	Black	Brown	Blue	
9017	White	Black	Brown	Violet	
9018	White	Black	Brown	Gray	
9023	White	Black	Red	Orange	
9024	White	Black	Red	Yellow	
9025	White	Black	Red	Green	
9026	White	Black	Red	Blue	
9027	White	Black	Red	Violet	
9028	White	Black	Red	Gray	

FIGURE 3

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Raytheon	Raytheon Company Lexington, MA	FSCM NO. 49956	Spec No. T73-4	
			SHEET 6 OF 6	REV 10

TABLE 1 DIMENSIONS

EQUIVALENT AWG SIZE	CONDUCTOR		DIAMETER OVER CONDUCTOR (Nominal, Inch)	DIAMETER OVER INSULATION		CONDUCTOR D. C. RESISTANCE, MAX. OHMS/1000 FT. AT 25 DEG. C.
	Number of Strands	Strand AWG Size		Min. Inch	Max. Inch	
32	7	40	.009	.035	.043	178
30	7	38	.012	.038	.046	111
28	7	36	.015	.041	.049	69.0
26	7	34	.019	.045	.053	42.9
24	19	36	.024	.050	.058	26.8
22	19	34	.030	.055	.064	16.7
20	19	32	.038	.064	.072	10.5
18	19	30	.048	.074	.084	6.57
16	19	29	.057	.083	.095	4.85
14	19	27	.071	.097	.113	3.05
12	19	25	.090	.115	.132	1.92
10	37	25	.112	.137	.153	1.24
8	133	29	.169	.199	.219	.671
6	133	27	.213	.253	.273	.426

4.0 Approved Vendors

4.1 Wire may be purchased from any vendor offering:

- a) Source Inspection.
- b) Certificates of Compliance to be supplied with each shipment.

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Title: C:\TEMP\T7839D~1.CG4