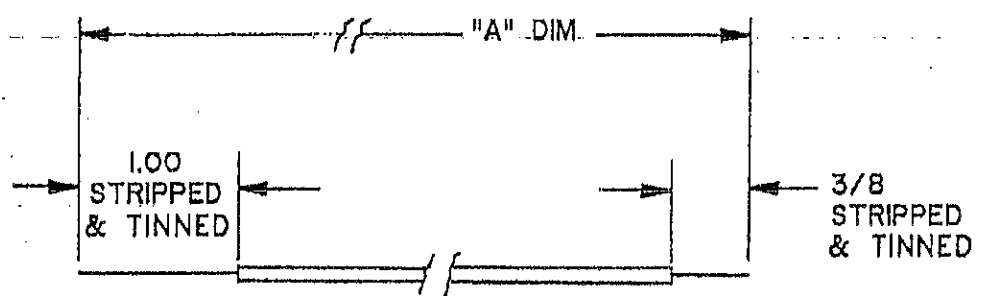


SH 1 DWG NO G520880	APPLICATION		REVISIONS			
	NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
		807432	-	SC028632 ORIGINATED	31MAY91	DWL M
			A	SCO 53311 DWP	3/20/02	MEF
		B	SCO 54861 DWP	6/21/05	MEF	



PART NUMBER	"A" DIMENSION
X G520880-001	7-1/2 <i>cut</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 ± 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±	CONTR. NO.	Raytheon Company Lexington MA 02173		
	DR. V. <i>[Signature]</i>			5-31-91
	CHK.		DRAWING TITLE	LEADWIRE
	A		SIZE	A
P		FSCM NO.	49956	
P		DRAWING NO.	G520880	
D		SCALE	1/1	
APPROVED		SHEET	1 OF 1	
MATERIAL:		BY DIRECTION OF		

Raytheon	Raytheon Company Lexington, MA	FSCM NO. 49956	Spec No. T73-4	
			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.	Spec No. T73-4	
		49956	SHEET 3 OF 6	REV 10
LISTED IN FIGURE 1 ARE THE FIRST 25 PREFERRED COLOR SEQUENCE FOR SINGLE WIRES, SYSTEM 1 PER MIL-STD-681.				
<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	

FIGURE 1

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		SHEET	REV
		4 OF 6	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
925	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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		49956		T73-4	
		SHEET		REV	
		5 OF 6		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
9016	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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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	179
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	26	.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