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#### NOTES:

##### 1. GENERAL REQUIREMENTS:

###### A. ELECTRICAL:

CONDUCTOR RESISTANCE (DC) AT 20°C: SHALL BE AS SHOWN IN TABLE 1.

TEMPERATURE COEFFICIENT OF RESISTANCE (0°C - 100°C): .0048.

###### B. MECHANICAL (BEFORE FORMING):

COEFFICIENT OF LINEAR EXPANSION (20°C - 100°C): .000013.

TENSILE STRENGTH AT 20°C:

135,000 PSI, MAXIMUM.

60,000 PSI, MINIMUM.

APPROXIMATE MELTING POINT: 1450°C.

ELONGATION: 20% MINIMUM, PER 2 INCHES.

WIRE SIZE: AS DELINEATED IN TABLE 1.

##### 2. CONSTRUCTION REQUIREMENTS:

###### A. CHEMICAL COMPOSITION OF MATERIAL

NICKEL .99.56 PERCENT

COPPER .02 PERCENT

IRON .095 PERCENT

CARBON .04 PERCENT

MANGANESE .25 PERCENT

SILICON .03 PERCENT

SULPHUR .005 PERCENT

B. WORKMANSHIP: THE WIRE SHALL BE UNIFORM IN QUALITY AND TEMPER, CLEAN, SOUND, SMOOTH AND FREE FROM INJURIOUS FOREIGN MATERIAL, SCRAPES, COLD SHUTS, LAPS, CRACKS, TWISTS, SCALE, DAMAGED ENDS, WELDS, SCORES, PITS, GALLS AND OTHER DEFECTS WHICH ARE NOT IN ACCORDANCE WITH THE BEST PRACTICE FOR HIGH QUALITY MATERIAL.

###### C. PACKAGING:

THE WIRE SHALL BE SHIPPED TOGETHER WITH A DESICCANT AND SEALED IN A PACKAGE.

THE WIRE SHALL BE WOUND ON A FIVE (5) INCH REEL AND THE TOTAL MAXIMUM WEIGHT OF THE WIRE SHALL NOT EXCEED FIFTEEN (15) POUNDS.

##### 3. ENVIRONMENTAL REQUIREMENTS: PER ND1002000.

##### 4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. (AS APPLICABLE).

##### 5. A. WAIVE AS REQUIRED ALL INFORMATION PRESENTED ON THIS DRAWING EXCEPT LEAD MATERIAL SPEC. & PHYSICAL DIMENSIONS.

B. UPON SPECIFIC INSTRUCTION BY (TD) TECHNICAL DIRECTIVE PROCURE THIS PART AS CHANGE LETTER A BY ORDERING TO VENDOR CATALOG NO. & SPECIFICATIONS. REFERENCE ND 1002034.

C. DISREGARD THIS NOTE IN ITS ENTIRETY IF REFERENCE IS MADE TO THIS DRAWING BY OTHER THAN REVISION LETTER A.

PROCURE ONLY FROM APPROVED SOURCES LISTED ON ND1002034 FOR THIS DRAWING

INCHES  
0 1 2  
PHOTOGRAPHIC SCALE ONLY

B 1006757

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	TAKEN FROM BUWEP DWG 2318921		
A	ADDED PROCUREMENT NOTE 5 PER TDRR 00433	2-20-63	WR
B	REPLACED WITH CHANGE BY REV C PER TDRR 00513		WR

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00027 DATE 9-13-62

TABLE 1

DASH NO.	CONDUCTOR DIMENSION $\pm 0.0005$	CONDUCTOR RESISTANCE OHMS/FOOT AT 20°C $\pm 10\%$
-1	.0100 X .0200	.2356
-2	.0100 X .0300	.1571
-3	.0200 X .0200	.1178
-4	.0250 X .0250	.0754
-5	.0100 X .0500	.0942
-6	.0100 X .01500	.3142
-7	.005 X .020	.4712

ⓑ REPLACED WITH CHANGE BY REV C

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN R. CHIN DATE 7-12-62				WIRE, ELECTRICAL		
CHECKED <i>[Signature]</i>				NICKEL, SQUARE & RECTANGULAR		
APPROVAL <i>[Signature]</i>				SPECIFICATION CONTROL DRAWING		
APPROVAL <i>[Signature]</i>						
NASA APPROVAL <i>[Signature]</i> 8-13-62				CODE IDENT NO.	SIZE	NASA DRAWING NO.
MIT APPROVAL <i>[Signature]</i> 9/13/62				C	C	1006757
SCALE NONE				WT	SHEET 1 OF 1	