

Alt: Carole K - RFR# 11330 - line 4

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE/NO CHANGE	001218	Rd

EXPORT CONTROL WARNING

EXPORT CONTROL DATA
 DATA CONTAINED HEREIN IS CONTROLLED UNDER U.S. STATE DEPARTMENT AUTHORIZATION AND MAY NOT BE DISCLOSED TO PERSONS OR ENTITIES NOT PARTY TO TECHNICAL ASSISTANCE AGREEMENT TA 808-89C.

BAE SYSTEMS Aircraft Controls Inc.
PROPRIETARY DATA

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507200	KTX-2	N40000055
NEXT ASSY	USED ON	CONTRACT NO
APPLICATION		
INTERPRET DRAWING IAW ASME Y14.5M		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVAL SIGNATURES LEGIBLY	DATE
	DRAWN <i>[Signature]</i>	001215
	CHECK <i>[Signature]</i>	001215
	MECH <i>[Signature]</i>	001215
TOLERANCES ARE:		
DECIMALS .XX ± .02	ANGLES ± 0° 30'	
.XXX ± .005		

SPECIFICATION CONTROL DRAWING		
BAE SYSTEMS Aircraft Controls Inc.		
SANTA MONICA, CA 90406-0442, U.S.A.		
WIRE, RESISTIVE, MANGANIN		
SIZE A	CAGE CODE 07690	DRAWING NO 628011
SCALE None	REV LTR -	SHEET 1 OF 5

REVISION STATUS OF SHEETS

<u>Sheet</u>	<u>Rev</u>
1	-
2	-
3	-
4	-
5	-
6	-

EXPORT CONTROL DATA

Export control data subject to the provisions on the cover.

BAE SYSTEMS Aircraft Controls Inc. Proprietary Data
Subject to the provisions on the first page.

SIZE A	CAGE CODE 07690	DRAWING NO 628011
SCALE None	REV LTR -	SHEET 2

1. SCOPE

1.1 Scope

This drawing details the requirements for a high resistance copper wire to be used in place of resistors to minimize space utilized by those packages,

1.2 Part number designations

The complete BAE SYSTEMS Aircraft Controls Inc. control number is made up from the 6-digit drawing number and a 2-digit suffix, indicating the size of the wire.

Example: 628011-01 (signifies an AWG #20 wire)

2. APPLICABLE DOCUMENTS

The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this drawing to the extent specified herein.

SPECIFICATIONS

American Society for Testing and Materials

ASTM B267 Specification for Wire for Use in Wire-Wound Resistors

3. REQUIREMENTS

The wire shall be composed of 84% copper, 12% Manganese and 4% Nickel. It shall be non-magnetic.

3.1 Characteristics

For characteristics of wire see Table I.

Table I	
PHYSICAL PROPERTIES	VALUE
Density lbs/ft ³ (gm/cm ³)	0.296 (8.19)
Size, diameter (20 gauge)	0.0320 inches
Resistance/0,25' (m-ohms)	60
Melting Point °F (°C)	1688 (1020)
Specific Resistivity (micro-ohms/cm)	48
Specific Resistance (Ohms/CMF)	290

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3.2 Acceptance of materials

Materials shall not be accepted unless all information required under paragraphs 5.1.2 and 5.2 is included.

3.3 Compliance with specification

Aircraft Controls Purchasing shall provide a copy of this drawing to the supplier with each purchase order.

Supplier (whether they be manufacturer or distributor) shall review this drawing and certify their compliance thereto in writing in accordance with paragraph 5.2.

3.4 Workmanship

The material shall be uniform in quality and condition and free from foreign materials and imperfections which are detrimental to fabrication, appearance or performance of the wire.

4. **QUALITY ASSURANCE PROVISIONS**

4.1 Responsibility for Inspection

Unless otherwise specified in the contract or purchase order, the supplier of the material shall be responsible for the performance of all inspection requirements as specified herein and may use his own facilities or any commercial laboratory acceptable to Aircraft Controls.

Aircraft Controls reserves the right to perform any or all of the inspections set forth herein where such inspections are deemed necessary to ensure that the material conforms to the prescribed requirements.

4.1.1 Inspection records shall be kept completed and available to Aircraft Controls in accordance with the contract or purchase order. These records shall contain all data necessary to determine compliance with requirements of this drawing.

5. **PREPARATION FOR DELIVERY**

5.1 Packaging

5.1.1 The material shall be packed in a manner which will ensure acceptance by common carrier and delivery to Aircraft Controls in an undamaged condition.

5.1.2 Each container shall be identified with:

- a. Supplier's part number
- b. Date of manufacture
- c. Lot number
- d. Aircraft Controls control number

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e. Any other Information considered pertinent by supplier

5.2 Certification

The supplier (whether it is manufacturer or distributor) shall include with each shipment of the material two copies of a certification giving the following information:

- a. Supplier's part number
- b. Purchase order number
- c. Aircraft Controls control number
- d. Quantity
- e. Lot number
- f. Date of manufacture
- g. A statement that the material in this shipment meets the requirements of this drawing (628011), signed by a company officer or manager, with the name typed or printed to assure legibility.

6. NOTES

- 6.1 Technical information pertaining to this drawing may be obtained from Materials/Process Engineering, BAE SYSTEMS Aircraft Controls Inc. 3400 Airport Avenue, Santa Monica, CA 90406.
- 6.2 Supplier may obtain other information pertaining to, or additional copies of, this drawing from Purchasing Department, BAE SYSTEMS Aircraft Controls Inc., 3400 Airport Avenue, Santa Monica, CA 90406.

Table II. Suggested Sources(s) of Supply

AIRCRAFT CONTROLS PART NUMBER	VENDOR PART NO.	CAGE CODE	VENDOR PART NUMBER
628011-01	CA Fine Wire	TBD	Manganin 290 Material No. 100121 AWG 20

Vendor Cage Code

None

Vendor Name and Address

California Fine Wire Company
338 South Fourth Street
Grover Beach, CA 93433

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