REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	ADDED -2 REQUIREMENTS 3 CE	77-07-01	
B	REVISE NOTE 5 3 CE	77-08-02	
C	SH 2; FIGURE 1, ADDED NOTE AND REV DIM. .060/.066 TYP WAS 0.063 TYP; TABLE I, REV TEMP RATING AND A DIM FOR -1 AND -2; SH 3; REVISED NOTES AND ADDED NOTE 18; SH 4; REVISED ADDRESS OF W. L. GORE AND 3M CO. 3 CE	84-01-06	
D	REVISED PER DCN ER/C 17037	94-07-22	

D

1

720424

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SPECIFICATION CONTROL DRAWING

N00024-92-C-5220

REV STATUS OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	REV	D	D	D	D												

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND PER ANSI Y14.5

.XXX ±.005
.XX —
ANGLES —

CONTRACT: N00024-77-C-7030

HUGHES — HUGHES AIRCRAFT COMPANY FULLERTON, CALIFORNIA

DR		77-04-05
CHK		77-04-05
APPD		77-04-6 77-4-6
ISSUED		77-04-06

CABLE, ELECTRICAL, FLAT, MULTICONDUCTOR

SIZE	FSCM NO.	DWG NO.	REV
A	05869	720424	D

SCALE — | WT NOTE 14 | SHEET 1 OF 4

D14-338 GS 1/77

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Engineering Release/Change (ER/C)

☐ RELEASE TRANSMITTAL ☐ PARTIAL ☐ EO ☐ EXPEDITE ☒ DCN

RELEASE SYSTEM	ECP NO. ETC.	PROJECT CODE IDENTIFIER			PREPARER	ORG CODE	DATE	ENGR REL / CHANGE ID NO.		ISSUE	SHEET 1 OF 1	
☒ STANDARD		AN/UYQ-UPN 93			G. SCHMELFELD	76-15-75	94-07-22	17037			SEQ NO.	SH NO. (S)
☐ SOFTWARE	RDW NO.	ORIGINATOR	ORG CODE	DATE	REA / LAB RE			CMA	ORG CODE	DATE		
☐ INTERIM		H. Grewal	76-15 41	94-07-25	JMSmith	76-15-41	94-07-22					
☐ PRE-REL	ESO NO.	SUPERVISOR			MFG PE			CHECK				
☐ DEV		H. Grewal	76-15 41	94-07-25				J. KINSLEY	76-15-75	94-07-22		
CLASSIFICATION	EFFECTIVITY CODE	DISPOSITION			ILS			PL MAINTENANCE				
☐ CLASS I	☐ M ☐ -	☒ APPROVED	CCB LLC DATE 94/07/25					S. Gonzales	76 15 43	94/07/25		
☒ CLASS II	☐ C ☐ R	☐ REJECTED	☐ DEFERRED		QA			CCB CHAIRPERSON				
								[signature]	10-25-00	94/07/25		

ENTER PROBLEM / REASON AND DESCP OF CHANGE BELOW (USE CONT SH(S) IF REQD)

ISSUE	SEQ NO.	CAGEC	DRAWING NO. NOR NU	REV	NO.	CONTROL ITEM EFFECTIVITY DRAWING NO.	MSN	CONFIGURATION ITEM EFFECTIVITY DRAWING NO.	MSN	SERIAL NO.
		05869	720424	D						

CURRENT CHANGE INCORPORATION

REASON: MIL-C-49059 HAS BEEN CANCELLED

SH 2, TABLE I REVISED DIM FOR THE -2 OPERATING.

WAS 0.014

SH 3 AND 4, COMPLETLEY REVISED NOTES: SEE PREVIOUS REVISION FOR WAS CONDITION

SH4 DELETED ANSLEY AND 3M AS SOURCES OF SUPPLY (CAGE CODE 15912 & 53387)

REVISED CAGE CODE AND ADDRESS OF -1 FOR W.L. GORE
WAS (60622) FLAGSTAFF AZ. IS (63602) MANOR TX

REVISED CAGE CODE AND ADDRESS OF THE -2 FOR W.L. GORE
WAS (60622) FLAGSTAFF AZ. IS (65512) PHOENIX, AZ.

ON SH 1 RENUMBERED SHEETS WAS 1 OF 5

STANDARD GSG RELEASE GSG

FIND NO.	ADD	DELETE	QTY REQD	DWG NOTE	CAGEC	PART NUMBER	DESCRIPTION	SPECIFICATION OR REFERENCE	FROM REF DESIGNATION	THRU	PL NOTE

20424 GS 10/92

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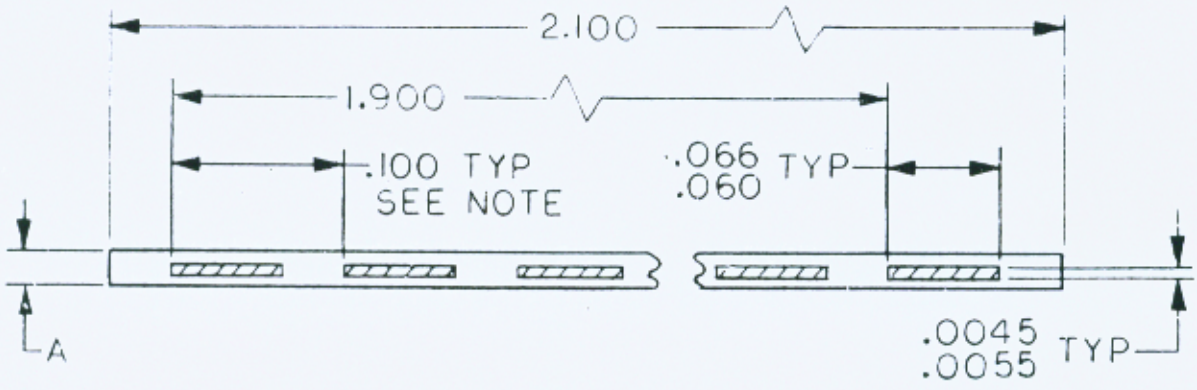
D 2 720424 05869



NOTE: SPACING OF CONDUCTORS IS TYPICAL AND NONCUMULATIVE.

FIGURE 1. PHYSICAL DIMENSIONS.

TABLE I.

HUGHES PART IDENT NUMBER	INSULATION	TEMPERATURE RATING	A DIM	CONDUCTOR PLATING
720424-1	POLYTETRAFLUCRO-ETHYLENE	STORAGE: -65 TO +200°C OPERATING: -55 TO +200°C	0.014 0.018	SILVER
720424-2	POLYESTER	STORAGE: -55 TO +105°C OPERATING: -20 TO +100°C	0.011 0.015	NONE

N00024-92-C-5220

HUGHES AIRCRAFT COMPANY FULLERTON, CALIFORNIA	CONTRACT:			
DWN V. Foster 84-01-03	SIZE A	FSCM NO 05869	DWG NO 720424	REV D
	SCALE NONE		SHEET 2	

11062-3-GS NOV 82 DIETERICH-POST 1000H-10

SEE SHEET 1 OF DRAWING FOR DISTRIBUTION STATEMENT

NOTES:

1. PARTS SUPPLIED TO THIS DOCUMENT SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN.

2. THIS DOCUMENT DEFINES THE REQUIREMENTS FOR A SERIES OF FLEXIBLE FLAT CONDUCTOR CABLES.

3. DIMENSIONS: SEE FIGURE 1 AND TABLE I.

4. MATERIALS AND FINISH:

   A. CONDUCTORS: SOFT COPPER PER QQ-C-502 OR ASTM B 272.

   B. PLATING: SEE TABLE I.

   C. INSULATION: SEE TABLE I.

5. DESIGN AND PERFORMANCE REQUIREMENTS:

   A. NUMBER OF CONDUCTORS: 20.

   B. EQUIVALENT ROUND WIRE SIZE: 24 AWG.

   C. TEMPERATURE RATING: SEE TABLE I.

   D. VOLTAGE RATING: 300 VRMS.

   E. CONDUCTOR RESISTANCE: 30 OHMS/1,000 FEET MAXIMUM AT +20°C.

   F. INSULATION RESISTANCE: 50 MEGOHMS/1,000 FEET MINIMUM.

   G. DIELECTRIC WITHSTANDING VOLTAGE: 1,500 VRMS.

   H. INSULATION FLAWS: 1,500 VRMS.

   I. FLAMMABILITY (720424-2 ONLY): CABLE SHALL BE MANUFACTURED FROM POLYESTER WITH A UL RATING OF 94VTM-0.

   J. WEIGHT: 50 POUNDS/1,000 FEET APPROXIMATELY.

6. MARKING: THE FOLLOWING INFORMATION SHALL BE LEGIBLY MARKED ON EACH REEL OR PACKAGE IN ACCORDANCE WITH MIL-STD-129:

   A. MANUFACTURER'S NAME OR SYMBOL AND PART NUMBER.

   B. DATE (YEAR) OF MANUFACTURE.

N00024-92-C-5220

HUGHES AIRCRAFT COMPANY FULLERTON, CALIFORNIA	CONTRACT:			
	SIZE	CAGE CODE	DWG NO.	REV
DWN J. Rineer 94-07-22	A	05869	720424	D
	SCALE NONE		SHEET 3	

11062-3-GS MAR 89 FACSIMILE

SEE SHEET 1 OF DRAWING FOR DISTRIBUTION STATEMENT

7. QUALITY CONFORMANCE INSPECTION: SHALL CONSIST OF THE MANUFACTURER'S STANDARD ACCEPTANCE TEST PROCEDURES AND SAMPLING PLAN. THE SUPPLIER SHALL BE RESPONSIBLE FOR ASSURING THAT ANY ITEM SUPPLIED TO THE REQUIREMENTS OF THIS DOCUMENT MEETS THE REQUIREMENTS SPECIFIED HEREIN.

8. PREPARATION FOR DELIVERY: PACKING AND PACKAGING SHALL BE ADEQUATE TO INSURE SAFE DELIVERY TO DESTINATION BY COMMON CARRIER.

9. CONTINUOUS LENGTHS: MINIMUM CONTINUOUS LENGTHS SHALL BE AS SPECIFIED BY THE PROCURING ACTIVITY.

10. SUGGESTED SOURCE(S) OF SUPPLY: IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S).

HUGHES CONTROL NUMBER	SUPPLIER PART NUMBER	SUPPLIER CAGE CODE	SUPPLIER NAME AND ADDRESS
720424-1	B01A170/20	63602	W. L. GORE AND ASSOC MANOR, TX
720424-2	B03B200/20	65512	W. L. GORE AND ASSOC PHOENIX, AZ

N00024-92-C-5220

HUGHES AIRCRAFT COMPANY FULLERTON, CALIFORNIA	CONTRACT:			
DWN J. Rineer 94-07-22	SIZE A	CAGE CODE 05869	DWG NO. 720424	REV D
	SCALE NONE		SHEET 4	

11062-3-GS MAR 89 FACSIMILE

SEE SHEET 1 OF DRAWING FOR DISTRIBUTION STATEMENT