


DEC 61, 78

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
	MSE	A	Revised per CN 362-1513 Chg: <i>E. Craft</i> Chk: <i>CSTP</i>	6 NOV 1987	<i>[Signature]</i>
		B	Revised per CN 362-3318 Chg: <i>E. Craft</i> Chk: <i>CSTP</i>		

B  
A

REV																																							
SHEET	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60									
REV	B	A	B	-	-																																		
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									

REVISION RECORD STATUS OF SHEETS

UNLESS OTHERWISE SPECIFIED	CONTRACT NO. DAAB07-86-C-R022	 Tactical Systems Division GTE Government Systems Corporation Needham Heights, Massachusetts
	DIMENSIONS ARE IN INCHES	
TOLERANCES	DOWN <i>3 1/2</i> DATE <i>11/26/86</i> CHKE <i>[Signature]</i> APVD <i>[Signature]</i> APVD <i>[Signature]</i>	CABLE, SPECIAL PURPOSE, ELECTRICAL
	ANGLES ± 2 PL DEC ± 3 PL DEC ± FRACTIONS ±	
FORM TSD-ED A1	SIZE <b>A</b> FSCM NO. <b>67032</b> DWG NO. <b>19-2733593</b> SCALE NONE SHEET 1 OF 6 <i>3 DEC 86</i>	

NOTES

1. Item: Cable, special purpose, electrical, multiconductor, shielded, jacketed.
2. Description: The cable shall comply with the requirements of MIL-C-13777 with the additions and the exceptions specified herein.
2. Individual Conductors: Irradiation crosslinked polyethylene insulated stranded tin coated copper wire conforming to military type M16878/14. Wire gauge sizes per Table I; stranding per Table II.

Insulation Colors: In accordance with MIL-STD-681

Number of Conductors: Table I

Shield: The cable shall be constructed with single braid overall shield of tinned copper wire.

Braid Angle: 35° nominal

Minimum Electrical Coverage: 90 percent

Outer Jacket: The cable shall be constructed with an outer jacket of irradiated crosslinked polyethylene.

2.4.1 Jacket Thickness: Table I

2.4.2 Color: Black (may appear gray due to irradiation process)

2.5 Overall Diameter: Table I

2.6 Working Voltage: 600 volts

2.7 Dielectric Withstanding Voltage: 2.0 Kv

2.8 Temperature Range: -55°C to +125°C

2.9 Marking: The following minimum cable identification shall be marked at intervals of not more than 2 feet on the outer surface of the outer jacket. A marker tape may be used in lieu of surface marking due to irregular shape of outer jacket.

- a) Manufacturer's identification
- b) Manufacturer's part no.

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SCALE:	NONE	REV.	SHEET
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3. Lot Conformance Testing: The manufacturer shall be responsible for assuring compliance to all the requirements of this drawing. Minimum testing on each lot shall consist of the Group A Inspection of MIL-C-13777.

4. Suggested Source(s) of Supply

a) Judd Wire Div., High Voltage Eng. Corp.  
Turners Falls, MA 01376

Code Ident. No.: 12703

Manufacturer's Part No.: Table I

b) Brand-Rex Co.  
Willimantic, CT 06226

Code Ident. No.: 71124

Manufacturer's Part No.: Table I

c) Surprenant Wire and Cable  
Division of PL Industries Inc.  
Clinton, MA 01510

Code Ident. No.: 90484

Manufacturer's Part No.: Table I

4.1 Procuring Activity Part No.: Table I

5. 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.

	SIZE	CODE IDENT. NO.	DRAWING NO.	
	A	67032	19-2733593	
	SCALE:	NONE	REV.	SHEET
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TABLE I

Procuring Activity Part No. 19-2733593	Number of Conductors/ Wire Size (AWG)	Overall Diameter (Inches-Nom.) $\pm .065$	Jacket Thickness $\pm .010$	Judd Wire Part No.
-1	37/22	0.480	.045	M0737003
-2	51/22	0.550	.050	M0751002
-3	23/22	0.410	.040	M0723003
-4	26/22	0.440	.045	M0726007
-5	6/22	0.220	.022	M0706039
-6	9/22	0.280	.030	M0709009
-7	3/20	0.195	.020	M0703078
-8	5/20	0.225	.020	M0705017
-9	6/20	0.250	.020	M0706040
-10	8/26	0.210	.020	M0708023
-11	4/14	0.300	.030	M0704087
-12	12/22	0.290	.025	M0712019

SIZE A	CODE IDENT. NO. 67032	DRAWING NO. 19-2733593
SCALE: NONE	REV. B	SHEET 4

TABLE I (cont'd)

Procuring Activity Part No. 19-2733593	Suprenant Wire & Cable	Brand- Rex
-1	L.U. 15,550	T1242437/22
-2	L.U. 15,551	T1242451/22
-3	L.U. 15,552	T1242423/22
-4	L.U. 15,553	T1242426/22
-5	L.U. 15,559	T124246/22
-6	L.U. 15,560	T124249/22
-7	L.U. 15,599	T124243/20
-8	L.U. 15,600	T124245/20
-9	L.U. 15,601	T124246/20
-10	L.U. 15,602	T124248/26
-11	L.U. 15,603	T124244/14
-12	L.U. 15,606	T1242412/22

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	SCALE:		REV.	SHEET
	NONE		-	5

TABLE II

Procuring Activity Part No. 19-2733593	Stranding		MIL-W-16878 Conductors	
	No. of Strands	AWG Size of Strands	1/, 2/ MIL Part No.	AWG Size
-1 thru -6, -12	19	34	M16878/14BPEX	22
-7 thru -9	19	32	M16878/14BGEX	20
-10	19	38	M16878/14BDEX	26
-11	19	27	M16878/14BKEX	14

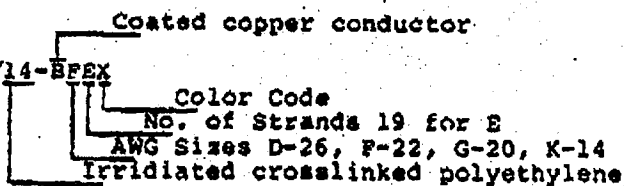
NOTES:

1/ X - Color code to be added e.g.:

- 9 - White
- 0 - Black

in accordance with MIL-STD-681  
see para. 2.1.1 (insulation colors)

2/ M16878/14-BPEX



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