

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE APPROVED
	-	ORIGINATED AND RELEASED PER ER 1276402	
	A	REVISED PER ECO 5036323	
	B	REVISED PER ECO 5036653	
		RELEASED PER ERR MI-J7745R1 A1	
	C	SEE MI-M6661	B.A.D. 01/04/24 D.E.V.
	D	SEE MI-M7442	JAE 07/11/25 D.E.V.
	E	SEE MI-M7534	CJB 02/02/18 D.E.V.

SUGGESTED SOURCE(S) OF SUPPLY:

INSULATED WIRE CORP
CAGE CODE: 59528
2065 SMITHTOWN AVE
RONKONKOMA, NY 11779
INSULATED WIRE PART NO.: SEE TABLE I

WEIGHT: UNIT WEIGHT SHALL BE 8LB/1000FT.

DIMENSIONS AND CONFIGURATION: DIMENSIONS AND CONFIGURATION SHALL BE IN ACCORDANCE WITH FIGURE 1 HEREIN.

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

FEATURES OF THIS ITEM WHICH ARE NOT DEFINED BY THIS DRAWING SHALL BE ESTABLISHED BY THE MANUFACTURER.

NOTES:

1. THE COMPLETE REQUIREMENTS FOR PROCURING THE ITEM DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE ISSUE IN EFFECT OF NEMA-WC-27500, PART NUMBER M27500-26TM2S09 FOR 11473336 AND M27500-26TM2S05 FOR 11473336-2 EXCEPT AS SPECIFIED HEREIN.

2. PART DESCRIPTION: CABLE, ELECTRICAL, SPECIAL PURPOSE, TWO CONDUCTOR SHIELDED.

MATERIAL:

PRIMARY CONDUCTORS: EACH OF THE TWO CONDUCTOR SHALL BE NO. 26 AMERICAN WIRE GAUGE (AWG) STRANDED WIRE CONSISTING OF 19 STRANDS OF NO. 38 AWG ROUND, HIGH STRENGTH, HIGH CONDUCTIVITY COPPER ALLOY IN ACCORDANCE WITH MIL-C-22759/22 OR EQUIVALENT.

PRIMARY CONDUCTOR INSULATION: AIR-SPACED POLYTETRAFLUOROETHYLENE (PTFE) IN ACCORDANCE WITH MIL-C-17, TYPE F-6 AND ASTM D1457. PROCESSED TO PRODUCE A TAPE THAT IS APPLIED CONCENTRICALLY OR HELICALLY AS A FUSED LAMINATE RESULTING IN AN INSULATION THICKNESS OF 0.015 PLUS OR MINUS 0.005. INSULATION COLOR SHALL BE RED ON ONE CONDUCTOR AND YELLOW ON THE OTHER CONDUCTOR.

SHIELD: SHIELD SHALL BE IN ACCORDANCE WITH ASTM F290 OR AS SPECIFIED IN MIL-C-27500.

JACKET: SEE TABLE I

ELECTRICAL:

IMPEDANCE: 100 PLUS OR MINUS 10 OHMS AT 1.0 MHz WHEN MEASURED CONDUCTOR TO CONDUCTOR USING MUTUAL CAPACITANCE AND DELAY IN NSEC/FT.

VOLTAGE RATING: 250 Vrms, 60 Hz OR 750 VDC AT SEA LEVEL.

DIELECTRIC WITHSTANDING VOLTAGE (COMPONENT WIRES): 250 Vrms, 60 Hz.

MECHANICAL: TWO PRIMARY INSULATED CONDUCTORS SHALL BE TWISTED TOGETHER WITH 1.75 PLUS OR MINUS 0.25 TWISTS PER INCH.

OPERATING TEMPERATURE RATING: MINUS 55 DEG C TO PLUS 200 DEG C.

3. MINIMUM MARKING: IDENTIFY IN ACCORDANCE WITH MIL-STD-130. ADDITIONAL IDENTIFICATION SHALL INCLUDE THIS ARMY PART NUMBER AND THE MANUFACTURER'S NAME AND/OR CODE SYMBOL.

4. SAMPLE INSPECTION TEST:
A 2 FOOT LENGTH OF JACKETED CABLE SHALL BE PLACED OVER A METAL BAR WITH ONE EDGE FORMED TO A 0.005 INCH RADIUS, PLUS 0.003, MINUS 0.000. CABLE WIRE MUST BE MAINTAINED STRAIGHT BY HANGING A 7 ± 1 OZ WEIGHT OFF ONE END OF THE WIRE AND DRAWING PARALLEL TO THE SURFACE BAR IT IS MOUNTED TO. THE TEST SAMPLE SHALL SHOW NO ANOMALIES (i.e. JACKET FOLDING, CUT-THROUGH, TEARS, BUMPS, ETC.) FOLLOWING 5 DRAWS OF CABLE WIRE OVER THE SAME JACKETED AREA. FAILURE AT ANY POINT DURING THE TESTING IS CAUSE FOR REJECTION OF THE ENTIRE LOT OF CABLE WIRE.

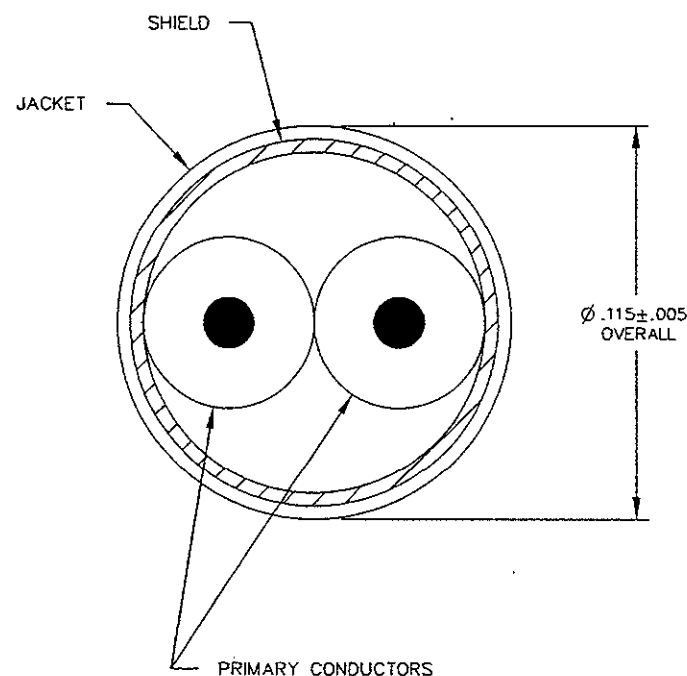


FIGURE 1. DIMENSIONS AND CONFIGURATION

TABLE I

PART NUMBER	SUPPLIERS PART NUMBER	JACKET MATERIAL
11473336	2C26(SCC)19X38LD10-04-02SJ/FEP	FEP, 0.006 +0.002 -0.001 THICK IN ACCORDANCE WITH ASTM D2116
11473336-002	2C26(SCC)19X38LD10-04-02SJ/14	PTFE, (IN A WRAPPED TAPE FORM) 0.006 +0.002 -0.001 THICK WITH THE FOLLOWING PROPERTIES: ELONGATION OF 125% MIN WHEN TESTED IAW ASTM D638, MODIFIED TO A 2.0 INCH GAUGE LENGTH. TEAR STRENGTH OF 1175 POUNDS PER LINEAR INCH (PLI) MINIMUM WHEN TESTED IAW ASTM D624, TYPE B, MODIFIED TO USE A 5.0 INCH LONG STRAIGHT SAMPLE. ULTIMATE TENSILE STRENGTH OF 4388 POUNDS PER SQUARE INCH (PSI) MINIMUM WHEN TESTED IAW ASTM D638, MODIFIED TO A 2.0 INCH GAUGE LENGTH.

INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100, ANSI Y14.5M-1982

COMPUTERIZED DATABASE PREPARED DRAWING

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SPECIFICATION CONTROL DRAWING

PART NO. SEE TABLE I

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES FRACTIONS ±		Raytheon Roytheon Company Lexington MA 02173		U.S. ARMY MISSILE COMMAND REDSTONE ARSENAL, ALABAMA	
ANGLES ±	---	CONTRACT NO. DAAHD1-89-C-0458	CABLE, ELECTRICAL, SPECIAL PURPOSE, TWO CONDUCTOR SHIELDED		
3 PLACE DECIMALS ±	---	DATE 1992 MARCH 23	SIZE	CAGE CODE	DRAWING NO.
2 PLACE DECIMALS ±	---	PREPARED M. HOLLAND 92-03-23	D	18876	11473336
MATERIAL		CHECKED R. BERNARD 92-03-23	SCALE 40/1 UNIT WT CALC NOTE 2 SHEET 1 OF 1		
NOTE 2		ENGINEER H. STEVENS 92-03-23			
MULTIPLE	PATRIOT	SUBMITTED			
NEXT ASSY	USED ON	APPROVED BY ORDER OF COMMANDER USAMCOM W.A. MOELLER			
APPLICATION					

11473336

11473336 REV E