

12/8

Caton Connection

Spec revised at 20070671 update

APPLICATION			REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVAL	
			TAKEN FROM 450967 REV-			
		A	SEE CN246333			

See 25 note

CN 246333
ISSUE 1
SH 5

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-1000 FORM I AND CATEGORY D, F, J
PREPARED IN ACCORDANCE WITH MIL-STD-100A

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REV STATUS OF SHEETS	REV LTR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								THIRD ANGLE PROJECTION		SPECIFICATION CONTROL DRAWING
	SHEET NO.	1	2										
DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESIS ARE IN MILLIMETERS		PREPARED BY RAYTHEON COMPANY LEXINGTON MA 02178			DEPARTMENT OF THE NAVY NAVAL ORDNANCE SYSTEMS COMMAND NATO SEASPARROW SMS PROJECT OFFICE WASHINGTON, D.C. 20390								
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGLES ±		CONTR NO. N00017-70-C-4409			WIRE, ELECTRICAL								
DECIMALS	INCHES	M	M	DR	CHK	APPD	APPROVED FOR NSBMS	SIZE	CODE IDENT NO.	NAVORD DWG NO.			
3 PLACE ±								A	10001	2888113			
2 PLACE ±								SCALE	NONE		SHEET 1 OF 2		
1 PLACE ±													

FORM NO. 48012 (170)

N00017-73-C-4414

2.5 CORONA EXTINCTION VOLTAGE: 5,000 VRMS MIN, A TIN OR SILVER PLATED COPPER BRAIDED SHIELD SHALL BE APPLIED TIGHTLY TO A 10 FOOT MIN LENGTH OF WIRE FOR THIS TEST. APPLY A 60 HERTZ, AC TEST VOLTAGE AT A RATE NOT TO EXCEED 7.5 KV PER MINUTE TO A MAXIMUM OF 7.5 KV RMS OR TO A POINT WHERE CORONA IS OBSERVED USING A TEST SET WITH A SENSITIVITY OF AT LEAST 5 PICO COULOMBS. REDUCE THE APPLIED VOLTAGE UNTIL CORONA EXTINGUISHES. MINIMUM CORONA EXTINCTION VOLTAGE SHALL BE 5 KV RMS.

2888113-1

- 1. DESCRIPTION: WIRE, ELECTRICAL, SINGLE CONDUCTOR, HIGH VOLTAGE, SILICONE RUBBER.
- 2. THE WIRE PER THIS DRAWING SHALL BE IN ACCORDANCE WITH MIL-W-16878/8 TYPE FF-18 WITH THE FOLLOWING MODIFICATIONS AND REQUIREMENTS:
 - 2.1 CONDUCTOR: NO. 18 AWG STRANDED, MINIMUM 19 STRANDS EACH .010 (NO. 30 AWG) SILVER PLATED ANNEALED COPPER WIRE.
 - 2.2 INSULATION: SILICONE RUBBER, WHITE, EXTRUDED, NOMINAL WALL .042. AT ANY CROSS-SECTION ALONG THE COMPLETED WIRE THE MINIMUM THICKNESS OF THE INSULATION SHALL NOT BE LESS THAN 70 PERCENT OF THE MAXIMUM THICKNESS AT THAT CROSS-SECTION. MAXIMUM DIAMETER .155.
 - 2.3 MAXIMUM OPERATING VOLTAGE: 7500 VOLTS RMS, 20,000 VOLTS DC.
 - 2.4 MINIMUM DIELECTRIC STRENGTH: 20,000 VOLTS RMS, 60 HERTZ FOR ONE MINUTE.
 - 2.5 CORONA EXTINCTION VOLTAGE: 8,000 VOLTS RMS.
 - 2.6 OPERATING TEMPERATURE RANGE: MINUS 40 TO PLUS 90 DEGREES CENTIGRADE.
 - 2.7 IDENTIFICATION: IDENTIFY PER MIL-STD-130.
 - 2.8 QUALITY ASSURANCE PROVISIONS: AQL 2.5 PERCENT, LEVEL II, PER MIL-STD-105. ALL DIMENSIONS, MATERIAL AND PARAGRAPH 2.4 SHALL CONFORM.

SUGGESTED SOURCE(S) OF SUPPLY:

BOSTON INSULATED WIRE & CABLE CO., CODE IDENT NO. 71102
 BOSTON, MASSACHUSETTS
 PART NO. 5637-L-G18 WHITE

DRAKA CABLETEQ USA INC.
 CAGE CODE: 71102
 NORTH DIGHTON, MA 02764
 MFR PART NUMBER: 5637-L-G18 WHITE

- APPLICABLE DOCUMENTS:
- MIL-W-16878
 - MIL-W-16878/8
 - MIL-STD-105
 - MIL-STD-130
 - MIL-STD-100A
 - MIL-D-1000

THIRD ANGLE PROJECTION		SIZE A	CODE IDENT NO. 10001	NAVCORD DWG NO. 2888113
		SCALE NONE	REV Ge	SHEET 2

NO0017-73-C-441A

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