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DWG NO127-6331A

REV C

CONVERTED TO SOLIDWORKS

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CABLE LENGTH TOLERANCE

ENGLISH		[METRIC]	
≤1FT	+1/-0 IN	≤0.3m	+25mm -0mm
>1 FT - 5 FT	+2/-0 IN	.0.3 m-1.5m	+50mm -0mm
> 5 FT - 10 FT	+4/-0 IN	>1.5m-3m	+100mm -0mm
>10 FT - 25FT	+6 / -0 IN	>3m-7.5m	+150mm -0mm
>25 FT	+5% / -0%	>7.5m	+5%/-0%

VIEW A-A

SCALE 2 : 1

VIEW B-B

SCALE 2 : 1

REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	9399	BNC STRAIN RELIEF MATERIAL IS: SANTOPRENE	JS 12/13/12	RA	DV
C	12758	UPDATED VIEW OF LEMO CONNECTOR. ADDED CABLE SPEC AND LENGTH TOLERANCE TABLES. FORMAT IS B SIZE, WAS A SIZE.	NDC 07/14/16	LN	AS

XX1

+ 0.5/- 0 FT

[+ .15/- 0 m]

1.0±0.1 FT

[0.3±.03 m]

5.0±0.5 FT

[1.5±.15 m]

BNC CONNECTOR W/ MOLDED STRAIN RELIEF. MATL: SANTOPRENE

5X 9-PIN CONNECTOR LEMO P/N: FGG.0B.309.CLAD56

COAXIAL CABLE, PTFE, LOW NOISE, ORANGE

POLYAMIDE SLEEVING

5X 4-COND CABLE, FEP INSULATED, BLK

COAXIAL CONNECTOR 3-56 UNF-2B

5X 4-PIN CONNECTOR 1/4-28 UNF-2B

5X PIN OUT LABEL

CABLE I.D. LABEL

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CABLE, COAX, LOW NOISE, LOW OUT GASSING

TEMPERATURE RATING	-90°C TO +200°C [-130°F TO +392°]
JACKET	OUTER WRAPPED AND SINTERED PTFE
DIAMETER, INNER CONDUCTOR	0.189mm [.007in] NOM
CABLE DIAMETER	1.22mm±0.10mm [.048 ±.004]
INNER CONDUCTOR	STRANDED SILVER PLATED COPPER ALLOY,AWG34 OR 7 X 0.063mm [.002in] NOM.
OUTER CONDUCTOR	SILVER PLATED COPPER BRAIDED SHIELD. STRAND DIAMETER: 0.063mm [.002 in] NOM. COVERAGE: 90% NOM.
CROSS SECTION	0.022mm² [.0009 in] NOM
RESISTANCE	98 OHMS/100M NOM @20°C [68°F]
DIELECTRIC	EXTRUDED PTFE DIELECTRIC WITH GRAPHITE LAYER. DIAMETER: 0.52mm [.02 in] NOM
COLOR	ORANGE
COATING	TETRA ETCH
APPROX WEIGHT	3.60G/M [.042 OZ/FT]
IMPEDANCE	50 OHMS NOM
CAPACITANCE	97 pF/m NOM.
LOW OUTGASSING	MEETS ASTM E 595-88/84/90, TML <1.0%, CVCM < 0.10%

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4 CONDUCTOR, SHIELDED CABLE

CONDUCTORS	30 AWG 7/38 SILVER PLATED COPPER
TEMP	-65 °C (-85 °F) TO +200 °C (+392 °F)
VOLTAGE	250 VOLTS
SHIELD	SILVER PLATED COPPER BRAID, 90% MIN COVERAGE
JACKET	FEP, BLACK, .006/.015 WALL
DIAMETER	.105 MAX

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CONNECTOR MATES WITH LEMO PART NO. ECG.0B.309.CLL

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SEE TABLE FOR CABLE SPECIFICATIONS

4

SEE TABLE FOR CABLE SPECIFICATIONS

3

TEMPERATURE RATING: -67°F [-55°C] TO 248°F [120°C].

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CABLES ARE LABELED A(1) THROUGH A(5).

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PART NUMBER 6331AXX. "XX" DENOTES LENGTH IN FEET.

NOTES: UNLESS OTHERWISE SPECIFIED

SCHEMATIC BNC TO 3-56

SCHEMATIC 9-PIN TO 4-PIN

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

DECIMALS .XX ±.01 .XXX ±.005

ANGLES ±1°

APPROVALS

ORIG	LN	DATE
CHK	JS	01/28/12
APP	JS	01/28/12
APP	DV	10/08/15

DO NOT SCALE DRAWING

TITLE: OUTLINE/INSTALLATION DWG, CABLE ASSY, MODEL 6331A

SIZE B

CAGE CODE 2W033

DWG NO 127-6331A

REV C

SCALE: 1:4

PART NO: 6331AXX

SHEET 1 OF 1

172-0136 REV B

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