NOTES:

1. FOR PROPER CUTTING AND ASSEMBLY REFER TO TERMINAL ASSEMBLY INSTRUCTIONS 090042-000.
2. FOR PROPER CONNECTOR INSTR. REF. TO
3. FOR PROPER ASSEMBLY REFER TO SPICE ASSEMBLY INSTRUCTIONS 090015-000 TYPICAL ALL (3-WAY) SPLICES.
4. FOR PROPER CONNECTOR ASSEMBLY REFER TO CONNECTOR ASSEMBLY INSTRUCTIONS 090477-000 OR 090484-000.
5. INSURE GROUND CLAMP TONGUE IS IN CORRECT POSITION AT ALL TERMINATIONS AS SHOWN.
6. SEAL CONNECTOR/CABLE INTERFACE USING ADHESIVE SHRINK TUBE P/N. 007053-032, PER INSTRUCTIONS 090222-000.
7. ALL DIMENSIONS REFER TO CABLE CUT LENGTH AND HAVE A TOL. OF ±1/16.
8. FROM THE CENTER OF HOE IN LUG TO BEGINNING OF MOLD OF FEEDER, DIMENSION SHOULD READ 1/4".
9. OVERALL CABLE CUT LENGTHS HAVE A TOLERANCE OF ±1/16.
10. ADD TAPE TO CABLE AS SHOWN FOR IDENTIFICATION.

SEE SEPARATE LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, INTERPRET DIM & TOL. PER ASME Y14.5M-1994

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NOTES:

SPECIFICATIONS FOR DECIBEL PRODUCTS, INC.
VAPOR BLOO VB-83 COAXIAL CABLE

THIS SPECIFICATION DESCRIBES A COAXIAL CABLE WITH A CHARACTERISTIC IMPEDANCE OF 50 OHMS. THIS CABLE IS MANUFACTURED FOR DECIBEL PRODUCTS WHERE BY MIL-I-47 DEFINITIONS APPLY TO THIS SPECIFICATION THE CABLE IS WATER-RESISTED AND IS WATER-RESISTED TO PREVENT LEAKAGE WITHIN THE CABLE. THE WATER-RESISTED CABLE IS TO WITHSTAND AN OPEN MASTER PRESSURE OF 25 PSI WATER PRESURE WITHOUT ANY LEAKAGE IN A THREE FOOT LENGTH OF WATER-RESISTED CABLE. THE COMPOUND IS A TIMES MICROWAVE SYSTEM COMPANY COMPOUND RS-6609 OR EQUIVALENT. THE COMPOUND IS TO BE COMPATIBLE WITH NATURAL POLYETHYLENE JACKET AND SHOULD ADHERE TO THE POLYETHYLENE JACKET. IT SHOULD HAVE THE FOLLOWING PROPERTIES:

- DC RESISTIVITY @20°C: 1 x 10^-7 Ωm-㎝
- DIELECTRIC STRENGTH: 600 VOLT/㎜
- DIELECTRIC CONSTANT: 2.25

NOTE THAT CENTER CONDUCTOR AND DIELECTRIC CONSTRUCTION SPECIFICATIONS MAY VARY TO LONG AS CHARACTERISTIC IMPEDANCE REMAINS WITHIN SPEC.

THE GENERAL CHARACTERISTICS OF THE COAXIAL CABLE ARE AS FOLLOWS:

CONSTRUCTION

CENTER CONDUCTOR (A)

- SOLID BARE COPPER, AWG 10 GA
- DIA: 0.005 10.001 IN. D.D.

DIELECTRIC (B)

- NATURAL POLYETHYLENE:
- 0.000500003 IN. D.D. (ε=2.29)

OUTER CONDUCTOR (C)

- SINGLE BRAID, AWG 32 GA
- BARE COPPER WIRE, 338 IN. D.D. (MAX)
- CARBON: 24
- PINS/INCH: 3.5 ± 0.02

JACKET

- HIGH MOLECULAR WEIGHT POLYETHYLENE (BLACK)
- JACKET THICKNESS: MIN. 0.03 IN.

OVERALL DIA. OF CABLE (D)

- 0.06400007 IN. D.D.

JACKET MATERIAL SHALL COMPLY TO UNI-6606 BLACK 4866 TEMPERATURE INDEX 75DE.

ELECTRICAL

- CHARACTERISTIC IMPEDANCE: 50 ± 1 OHM
- DIELECTRIC STRENGTH (MIN): 10 KV RMS
- VELOCITY OF PROPAGATION: 65% ± 0.05%
- OPERATING VOLTAGE (MAX): 4 KV
- ATTENUATION AT 100 MHZ: 2.8 db/100 FT (NOM)
- ATTENUATION AT 500 MHZ: 5.0 db/100 FT (NOM)
- CAPACITANCE: 43.3 pF/FT/DUAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES, INTERPRET DIA AND MIL PER ASME Y14.5M-1994

FRACTION: ±1/32
DECIMAL: XXX = ±0.005
XX = ±0.01

- MATERIAL: N/A
- NOS: N/A

DRAWN BY: KM
DATE: 9/14/89

CHANGE: AC
DATE: 12/12/89

 playlist: [AK]  DECIBEL PRODUCTS
DECIBEL PRODUCTS
8635 STEWON MFR. DALLAS, TEXAS 75356-9810

TITLE: VB-83 COAXIAL CABLE

REVISIONS

| REV | DESCRIPTION | DATE | APP.
|-----|-------------|------|-----|
| D   | ECN 0762 ADDED TO TESTING NOTES | 03-06-98FP | M.W.
| H   | ECN 05737 ADD TEST AND CONST. NOTES | 02-14-971W | AD.
| J   | ECN 05420 CHG. 65.9% TO 65.9% ±0.5, DEL (NOM.) | 02-27-971U | AD.
| K   | ECN 05271U MFR. NOTES | 03/12/00 LB AP |

Cable Source: LanTec Curtis Lawrence
972 980-6878

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### Specifications for Decibel Products, Inc.

**Vapor Block VB-11 Coaxial Cable**

**NOTES:**
- This specification describes a general type of cable with a characteristic impedance of 50 ohm. The cable is manufactured for Decibel Products with the following specifications:
- **Construction:**
  - Center Conductor (A):
    - Physical Diameter: 0.0420 in.
  - Dielectric:
    - Material: Polyethylene
  - Outer Conductor (B):
    - Single Piece: SE-CASE
    - Double Piece: 3/4 in.

**The General Characteristics of the Coaxial Cable are as follows:**

**Mechanical Properties**
- **Weight per 100 ft:** 545 lbs
- **Operating Temperature:** Approximately 100°F

**Dielectric Properties**
- **The marking on the cable to be as follows:**
  - On the center conductor, the line will be shown in white on black, and the words will be in white on black, non-removable ink.

**Testing:**
- All tests used to determine properties will be performed in accordance with MIL-C-27801A and MIL-C-27802A.

**Schematic Diagram:**
- Illustration shown in Figure 12 to be tested in accordance with MIL-C-27802A.

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**Material:**
- **Shrink:** E-5300

**Allen Group of Companies:**
- Dallas, Texas 75206

**Decibel Products:**
- 6150 W. 60th St., Suite 102

**VE-11 Coaxial Cable**

**Special Notes:**
- This document is for use by Allen Group of Companies, a division of Decibel Products. The use of this document is subject to Allen Group of Companies Standard Practices.
NOTES:

1. MANUFACTURER:
   SANTRON
   4 NEWBURHPORT TURNPIKE
   IPSWICH,
   MA. 01938
   T/EL: (978) 356-1585
   F/AX: (978) 356-1573
   E-MAIL: www.santron.com
   P/N: UG-1186/U

2. SUGGESTED SOURCE:
   SAME AS ABOVE

3. INSPECT THE UNIT/ITEM FOR SHIPPING DAMAGE AND GENERAL WORKMANSHIP.

4. SUGGESTED MANUFACTURER/SOURCE IS SOLELY
   RESPONSIBLE FOR CONFORMANCE TO ALL
   MECHANICAL, ELECTRICAL, WORKMANSHIP
   AND ANY OTHER SPECIFICATIONS ASSOCIATED
   WITH THE PART NO. ABOVE.

5. ALL DIMENSIONS AND TOLERANCES ARE
   MANUFACTURERS AND ARE REFERENCE.

6. MATERIALS
   DIESLECTRICS: PTFE FLUOROCARBON PER ASTM-D-1710,
   OR I, OR I, CLA
   CONTACTS: (FEMALE) BERYLLIUM COPPER PER ASTM-B-196
   MALE OUTER CONTACTS: PHOSPHOR BRONZE PER ASTM-B-39,
   ALLOY 82 OR BRASS PER ASTM-B-16.
   GASKETS: SILICONE RUBBER PER ZZ-R-365, CLASS II, OR 50-60
   LOCKING RINGS: PHOSPHOR BRONZE PER ASTM-B-154, SPRING TEMPER
   CRIMP SLEEVES: IHP COPPER, CDA 122, SOFT TEMPER
   OTHER METAL PARTS: BRASS PER ASTM-B-16

7. FINISHES
   CENTER CONTACTS: SILVER PER ASTM B 700,
   GOLD PER MIL-G-45204 OR ALBALLOY
   OTHER METAL PARTS: NICKEL PER QQ-N-290,
   SILVER PER ASTM B 700 OR ALBALLOY

8. PERFORMANCE
   FREQUENCY RANGE: DC-11 GHz
   VOLTAGE RATING: 1000 V RMS (SEA LEVEL)
   NOMINAL IMPEDANCE: 50 OHMS
   DV: 2500 V RMS @ 60 Hz (SEA LEVEL)
   INSULATION RESISTANCE: 5000 MEGOHMS
   TEMPERATURE RANGE: -65°C TO +165°C

9. CABLE GROUPS
   8, 8A, 11, 11A, 213, M17/6, M17/74
   9, 9A, 9B, 214, 225, M17/75, M17/77, M17/127.

SCALE 1:1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
INTERPRET DIM. & TOL.
PER ASME Y14.5M-1994

DECIBEL PRODUCTS
8635 STEMMONS FRWY.
DALLAS, TEXAS 75358-9610

TITLE:
CONNECTOR, FEMALE
UG-1186/U

SIZE: A
DRAWING NO: 001009-146
REV: A

SEE WHERE USED
NEXT ASSEMBLY

READ ALL BURRS AND SHARP EDGES.
PART SHALL CONFORM TO DB STANDARD PRACTICES.

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STEP 1
SLIDE HEAT SHRINKABLE TUBING (IF SUPPLIED), CLAMP NUT, WASHER AND GASKET ONTO CABLE AS SHOWN. CUT OFF JACKET TO 13/32 AS SHOWN. BE SURE V-GROOVE FACES AWAY FROM NUT AS SHOWN.

STEP 2
COMB OUT BRAID WIRES. SLIDE BRAID CLAMP OVER BRAID, BEING CERTAIN THAT CLAMP SEATS SQUARELY AGAINST CUT END OF JACKET. FORM BRAID WIRES SMOOTHLY OVER CLAMP AS SHOWN AND TRIM OFF EXCESS BRAID WIRE. CUT DIELECTRIC TO 3/64 AND CONDUCTOR TO 7/32 AS SHOWN.

STEP 3
ASSEMBLE WASHER AND THICKER INSULATOR, THAN SOLDER CENTER CONTACT TO CABLE CONDUCTOR. REMOVE EXCESS SOLDER FROM OUTSIDE OF CONTACT. THEN ASSEMBLE OTHER INSULATOR WITH COUNTER BORE FACING SLOTTED OR POINTED END OF CONTACT.

STEP 4
INSERT ASSEMBLY INTO CONNECTOR BODY, BEING CERTAIN THAT BRAID CLAMP IS SEATED. TIGHTEN CLAMP NUT WITH A WRENCH.
Purchased Part Drawing

Notes:

1. Manufacturer:
   Santron
   4 Newburyport Turnpike
   Ipswich, MA
   01938
   Tel: (978) 356-1585
   Fax: (978) 356-1573
   E-mail: www.santron.com
   P/N: UG-1185/U

2. Suggested Source:
   Same as above

3. Inspect the unit/item for shipping damage and general workmanship.

4. Suggested manufacturer/source is solely responsible for conformance to all mechanical, electrical, workmanship, and any other specifications associated with the part no. above.

5. All dimensions and tolerances are manufacturer's and are reference.

6. Materials:
   dielectrics: PTFE fluorocarbon per ASTM-D-1710,
   type I, GR I, CLA
   contacts: (female) beryllium copper per ASTM-B-196
   male outer contacts: phosphor bronze per ASTM-B-39,
   alloy B2 or brass per ASTM-B-16.
   gaskets: silicone rubber per ZZ-R-365, class II, gr 50-60
   locking rings: phosphor bronze per ASTM-B-154, spring temper
   crimp sleeves: DHP copper, CDA 122, soft temper
   other metal parts: brass per ASTM-B-16

7. Finishes:
   Center contacts: silver per ASTM B 700
   gold per MIL-G-45204 DR Albaldy
   other metal parts: nickel per QQ-N-290,
   silver per ASTM B 700 or Albaldy

8. Performance:
   frequency range: dc-11 GHz
   voltage rating: 1000 V RMS (sea level)
   nominal impedance: 50 ohms
   dv/div: 2500 V RMS & 60 Hz (sea level)
   insulation resistance: 5000 megohms
   temperature range: -65°C to +165°C

9. Cable Groups:
   8, 8A, 11, 11A, 213, M17/6, M17/74
   9, 9A, 9B, 214, 225, M17/75, M17/77, M17/127

Scale 1:1

Section A-A

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
INTERPRET DIM & TOL
PER ASME Y14.5M-1994

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Allen Telecom
Decibel Products
8655 Stemmons Fwy
Dallas, Texas 75356-9610

Title: Connector, Male
UG-1185/U

Size: 001009-144
Drawing No: 001009-144
Rev: A

Drawn By: L. Benitez
Date: 08/27/03

Chkd By: J. Evans
Date: 08/28/03

Elec. Eng: M. Wayne
Date: 08/29/03

Mech. Eng: Z. Balter
Date: 08/28/03

Released: M. Wayne
Date: 08/28/03

See Where Used

Next Assembly

Remove all burrs and sharp edges. Part shall conform to DB standard practices.

Do Not Scale Drawing

Sheet 1 of 2
CUT CABLES TO PROPER DIMENSIONS AS SHOWN

WRAP SOLDERED CENTER CONDUCTORS WITH TAPE & POSITION SPLICE CONDUCTORS ON BRAID AS SHOWN. CRIMP TABS TO HOLD IN PLACE AND SOLDER SPLICE CONDUCTORS TO BRAID ON ALL CABLES.

COVER ENTIRE ASSEMBLY WITH POLYETHYLENE RESIN (ALATHON), ITEM 4.
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</table>
NOTES:

1. CHECK CABLE TYPE, LENGTH AND TRIM FOR CORRECTNESS.
2. TWIST/SCREW THE CONNECTOR PLUG ON TO THE CABLE SO THE BRAID IS VISIBLE THROUGH THE PLUG HOLES.
3. SOLDER THE BRAID TO THE CONNECTOR PLUG THROUGH THE HOLES. FILL THE PLUG SHAFT WITH SOLDER.
4. HY-POT TEST THE ASSEMBLY FOR SHORTS (SEE 090370-000). SCREW THE COUPLING RING TO THE PLUG ONCE THE SOLDERING IS COMPLETE.
6. PLACE THE ADAPTER ONTO THE PLUG AND SCREW THE CONNECTOR COUPLING RING ON THE ADAPTER, THEN TIGHTEN.
7. SEE 090222-000 FOR SHRINK TUBE INSTALLATION.

PL-259

COUPLING RING

PLUG

SOLDER

PL-258 ADAPTER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES:
INTERPRET DIM & TOL PER ASME Y14.5M-1994

<table>
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<tr>
<th>MATERIAL</th>
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DRAWN BY: B.K. DATE: 11-17-99
CHECKED: J.E. DATE: 11-18-99
ELEC. ENG.: M.W. DATE: 11-22-99
MECH. ENG.: A.P. DATE: 11-22-99
MFG. ENG.: M.W. DATE: 11-22-99
RELEASED: P.P. DATE: 11-22-99

DECIBEL PRODUCTS
8635 STEMMONS FWY.
DALLAS, TEXAS 75236-9610

UHF INSTALLATION

DECIBEL PRODUCTS

090484-000 A

SEE WHERE USED
NEXT ASSEMBLY
REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.

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CUT END OF CABLE EVEN. PLACE NUT & GASKET, WITH "V" GROOVE TOWARD CLAMP, OVER CABLE & CUT OFF JACKET 23/64" FROM END

COMB BUT BRAID AS SHOWN. CUT OFF CABLE DIELECTRIC 1/8" FROM END OF JACKET.

PULL BRAID WIRES FORWARD & TAPER TOWARD CENTER CONDUCTOR. PLACE CLAMP OVER BRAID & PUSH BACK AGAINST CABLE JACKET.

FOLD BACK WIRES AS SHOWN. TRIM TO PROPER LENGTH & FORM OVER CLAMP AS SHOWN. TIN EXPOSED CENTER CONDUCTOR USING MINIMUM AMOUNT OF HEAT. SLIDE ON WASHER, REAR INSULATOR & CONTACT CONTACT STANDING INSULATOR, INSULATOR & CABLE CORE MUST BUTT AS SHOWN. SOLDER CONTACT TO CENTER CONDUCTOR.

SLIDE FRONT INSULATOR OVER CONTACT. BE SURE TO PLACE COUNTER BORE END OF INSULATOR TOWARD MATING END OF CONTACT.

INSERT PREPARED CABLE TERMINATION INTO CONNECTOR BODY. MAKE SURE SHARP EDGE OF CLAMP SEATS PROPERLY IN GASKET. TIGHTEN NUT. HOLDING BODY STATIONARY. RECOMMENDED TO TORQUE NUT 61 IN. LBS.

NOTE: FOR ARMORED CABLE SLIDE OVER ARMOR FIRST. PUSH ARMOR & CAP BACK OUT OF WAY & PROCEED WITH ASSEMBLY AS DIRECTED ABOVE USING ARMOR CLAMP IN PLACE OF STANDARD CLAMP NUT. WHEN ASSEMBLY IS COMPLETE STRAIGHTEN BULGE IN ARMOR & TRIM SO IT CAN BE CLAMPED BETWEEN NUT & CAP.

* USE DIVCO #276 (OR HIGH TEMP. ALLOY) SOLDER FOR HIGH TEMP. APPLICATIONS.
NOTES:
1. LOCATE SHRINK TUBE OVER INTERFACE AS SHOWN
2. APPLY HEAT TO SHRINK TUBING UNTIL IT CLOSES TIGHTLY AND
   ADEHSIVE FORMS A BEAD AROUND ENDS OF SHRINK TUBING.
3. SHRINK TUBING SHOULD BE CENTERED OVER BOTH CONNECTORS.
4. ALL DIMENSIONS ARE PRIOR TO HEATING TUBE.
5. SHRINK TUBING SHOULD NOT IMPEDE MOTION OF KNULED
   CONNECTOR NUT.

UG1185 CONNECTOR:

PL-259 CONNECTOR:

UG1186 CONNECTOR:

PL-259 AND PL-258

1185 & 1186 N-MALE & N-FEMALE CONNECTED

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
INTERPRET DIM & TOL.
PER ASME Y14.5M-1994

MATERIAL: N/A
FINISH: NA

DRAWN BY: GW
DATE: 01-29-92

CHK'D.: AG
DATE: 01-29-92

ELEC. ENG.: MW
DATE: 9-25-93

MECH. ENG.: N/A
DATE: N/A

MFR. ENG.: JB
DATE: 01-29-92

RELEASED: AC
DATE: 01-29-92

Andrew Corporation
10500 W. 153rd Street
Orland Park, IL U.S.A. 60462

TITLE:
INSTALLATION,
SHRINK TUBING

SIZE
B

DRAWING No.
090222-000

REV.
B

NEXT ASSEMBLY

DO NOT SCALE DRAWING
SHEET 1 OF 1

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permission of Andrew Corporation Management.
NOTES:
1. MATERIAL - COLD ROLLED ELECTROLYTIC TOUGH PITCH COPPER #110
2. ALL FRACTIONS TO BE ±1/64
3. DECIBEL HAS TOOLING NUMBER 018100-001 #3
4. FINISH: .0005 MIN. ELECTRO TIN PLATE.

\begin{align*}
\text{\textbullet} & \quad 7/8 \\
\text{\textbullet} & \quad 3/16 \\
\text{\textbullet} & \quad \text{\textbullet} \\
\text{\textbullet} & \quad 13/32 \text{ I.D.} \\
\text{\textbullet} & \quad 1/8 \text{ R MAX.} \\
\text{\textbullet} & \quad 3/16 \text{ MAX.} \\
\end{align*}

\begin{align*}
\text{\textbullet} & \quad .188^{+0.005}_{-0.010} \text{ DIA} \\
\text{\textbullet} & \quad 0.063 \\
\text{\textbullet} & \quad 0.375^{\pm0.010}_{5/32} \\
\text{\textbullet} & \quad 7/64 \\
\text{\textbullet} & \quad 3/16 \\
\text{\textbullet} & \quad \text{FULL R TYP} \\
\end{align*}

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

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<td>DATE: 4-8-70</td>
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<tr>
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<td>MECH. ENG:</td>
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<td>DATE: N/A</td>
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<td>MFG. ENG:</td>
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<td>DATE: N/A</td>
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<tr>
<td>RELEASED:</td>
<td>RCT</td>
<td>DATE: 4-8-70</td>
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\begin{align*}
\text{SEE NOTE 1} & \quad \text{SEE NOTE 4} \\
\text{DRAWN BY:} & \quad \text{DATE: 1-29-70} \\
\text{CHECKED:} & \quad \text{DATE: 4-8-70} \\
\text{FINISH:} & \quad \text{DATE: N/A} \\
\text{MATERIAL:} & \quad \text{DATE: N/A} \\
\text{SEE WHERE USED} & \quad \text{DATE: N/A} \\
\text{NEXT ASSEMBLY} & \quad \text{DATE: N/A} \\
\text{REMOVE ALL BURRS AND SHARP EDGES.} & \quad \text{DATE: N/A} \\
\text{PART SHALL CONFORM TO DB STANDARD PRACTICES.} & \quad \text{DATE: N/A} \\
\end{align*}