

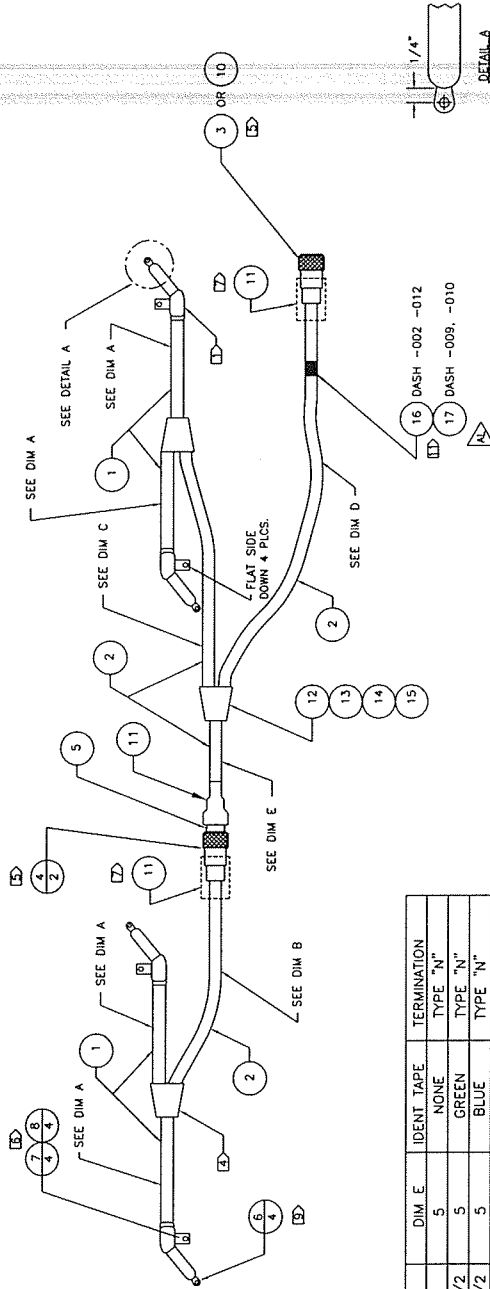
REV.	DESCRIPTION	DATE	APP.
	SEE SEPARATE LIST OF REVISIONS		

05/03/2002 07:05:34

REVISIONS

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 SPLICE 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. 007055-032, PER INSTRUCTIONS 090222-000.
- 7. * ALL DIMENSIONS REFER TO CABLE CUT LENGTH AND HAVE A TOL. OF ±1/16".
- 8. FROM THE CENTER OF HOLE 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

DASH NO	FREQ. (MC)	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	IDENT. TAPE	TERMINATION
-001	150-160	38-3/4	56-1/8	61-3/4	109	5	NONE	TYPE "N"
-002	164-174	36-5/8	53-3/8	59	105-1/2	5	GREEN	TYPE "N"
-009	138-150	43	61	66-5/8	146-1/2	5	BLUE	TYPE "N"
-010	138-150	43	61	66-5/8	146-1/2	5	BLUE	NF
-011	150-160	38-3/4	56-1/8	61-3/4	109	5	NONE	NF
-012	164-174	36-5/8	53-3/8	59	105-1/2	5	GREEN	NF
CABLE TYPE		VB11	VB83	VB83	VB83	VB-83		

ALLEN TELECOM DECIBEL PRODUCTS 8635 STEMMONS FRWY. DALLAS, TEXAS 75356-9610		FINISH: N/A	
MATERIAL: N/A		DRAWN BY: DP	
DATE: 02-05-70		DATE: 04-02-70	
DATE: 04-02-70		DATE: 11-02-94	
ELEC. ENG.: MU		DATE: N/A	
MECH. ENG.: N/A		DATE: N/A	
MFR. ENG.: N/A		DATE: N/A	
RELEASED: RCT		DATE: 04-03-70	
REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM & TOL PER ASME Y14.5M-1994		FRACTION: DECIMAL: ANGLE:	
±1/32 .xxx = ±.005 .xx = ±.01		±.5°	
010015-003		010015-001	
NEXT ASSEMBLY			
DECIBEL PRODUCTS HARNESS ASSEMBLY DB224		SIZE: B	
DRAWING No. 018135		REV. 002	
DO NOT SCALE DRAWING		SHEET 1 OF 5	

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DECIBEL PRODUCTS
8635 STEMMONS FRWY
DALLAS, TEXAS 75247-3701

REV.
AL

018135 -001/002
-009/012

SHEET
4 OF 5

BILL OF MATERIALS

05/03/2002 07:24:54

018135 -001/002
-009/012

		QUANTITY										ITEM	PART NUMBER	DESCRIPTION	U/M
-010	-009	-008	-007	-006	-005	-004	-003	-002	-001						
14.33	14.33	-	-	-	-	-	-	12.21	19.92	-	-	1	053001-004	CABLE COAXIAL VB-11	FT
23.26	23.26	-	-	-	-	-	-	18.57	19.32	-	-	2	053001-001	CABLE COAXIAL VB-83	FT
-	1	-	-	-	-	-	-	1	1	-	-	3	001009-144	CONNECTOR UG-1185	EA
2	2	-	-	-	-	-	-	2	2	-	-	4	001011-003	CONNECTOR PL-259	EA
1	1	-	-	-	-	-	-	1	1	-	-	5	001011-018	ADAPTOR PL-258	EA
1	1	-	-	-	-	-	-	4	4	-	-	6	007063-014	LUG TERMINAL	EA
4	4	-	-	-	-	-	-	4	4	-	-	7	018100-001	CLAMP GROUND	EA
4	4	-	-	-	-	-	-	4	4	-	-	8	007057-001	EYELET	EA
.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	9	002003-042	SOLDER (NOT SHOWN)	LB
1	-	-	-	-	-	-	-	-	-	-	-	10	001009-146	CONNECTOR, UG 1186	EA
7	7	-	-	-	-	-	-	7	7	-	-	11	007055-032	ADHESIVE LINED SHRINK TUBE	IN
.5	.5	-	-	-	-	-	-	.5	.5	-	-	12	002001-027	TEFLON SEALANT TAPE (NOT SHOWN)	FT
.46	.46	-	-	-	-	-	-	.46	.46	-	-	13	011002-015	BLACK POLYETHYLENE (NOT SHOWN)	LB
1.5	1.5	-	-	-	-	-	-	1.5	1.5	-	-	14	011002-016	NO. 26 TINNED PLATED WIRE (NOT SHOWN)	FT
6	6	-	-	-	-	-	-	6	6	-	-	15	018008-001	COPPER CABLE SPLICE (NOT SHOWN)	EA
-	-	-	-	-	-	-	-	.25	-	-	-	16	002001-006	TAPE #66, 3/4" GREEN	FT
.25	.25	-	-	-	-	-	-	-	-	-	-	17	002001-007	TAPE #66, 3/4" BLUE	FT
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NOTES:

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

THIS SPECIFICATION DESCRIBES A COAXIAL CABLE WITH A CHARACTERISTIC IMPEDANCE OF 35 OHMS. THIS CABLE IS MANUFACTURED FOR DECIBEL PRODUCTS WHEREBY MIL-C-17 DEFINITIONS APPLY TO THIS SPECIFICATION. THE CABLE IS WATERBLOCKED TO PREVENT WATER MIGRATION WITHIN THE CABLE. THE WATERBLOCKED CABLE IS TO WITHSTAND AN OPEN FACED PRESSURE OF 25 PSI WATER PRESSURE WITHOUT ANY LEAKAGE IN A THREE FOOT LENGTH. THE WATERBLOCKING COMPOUND IS TIMES MICROWAVE SYSTEM COMPANY COMPOUND PS-6069 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) 1×10^5 OHM-CM
DIELECTRIC STRENGTH 600 VOLTS/MIL
DIELECTRIC CONSTANT 2.25

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

THE GENERAL CHARACTERISTICS OF THE COAXIAL CABLE ARE AS FOLLOWS:

- CONSTRUCTION
- CENTER CONDUCTOR (A) SOLID BARE COPPER, AVG 10 GA. 0.105 ±0.001 IN. O.D.
- DIELECTRIC (B) NATURAL POLYETHYLENE, 0.246±0.003 IN. O.D. (E=2.29)
- OUTER CONDUCTOR (C) SINGLE BRAID, AVG 33 GA. BARE COPPER WIRE, .338 IN. O.D. (MAX) CARRIERS: 24 ENDS: B PICKS/INCH: 6.5 ± 10%
- JACKET HIGH MOLECULAR WEIGHT POLYETHYLENE (BLACK) JACKET THICKNESS: MIN .030 IN. OVERALL DIA. OF CABLE (D) 0.405±0.007 IN. O.D.

JACKET MATERIAL SHALL CONFORM TO UNION CARBIDE COMPOUND SPECIFICATION DFDB-0586 BLACK 9865. TEMPERATURE INDEX BEING PRIORITY.

ELECTRICAL

- CHARACTERISTIC IMPEDANCE 35 ± 1 OHM
- DIELECTRIC STRENGTH (MIN) 10 KV RMS
- VELOCITY OF PROPAGATION 559 ±05%
- OPERATING VOLTAGE (MAX) 4 KV
- ATTENUATION AT 100 MHZ 2.8 96/100 FT. (NDM)
- ATTENUATION AT 400 MHZ 5.8 96/100 FT. (NDM)
- CAPACITANCE 43.5 pf/FOOT

PHYSICAL PROPERTIES
WEIGHT PER 1000 FT. APPROXIMATELY 110 LBS.
OPERATING TEMPERATURE -40°C. TO +80°C.

CABLE IDENTIFICATION

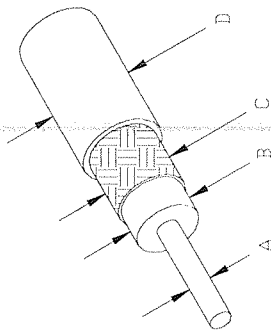
THE MARKING ON THE CABLE TO BE AS FOLLOWS:

LEGEND TO READ: VAPOR BLOC VB83
THE CHARACTER SIZE WILL BE 1/8 INCH UPPER CASE. THE LEGEND WILL BE SPACED APPROXIMATELY 3 INCHES CENTER TO CENTER AND PRINTED IN WHITE PERMANENT, NON REMOVEABLE INK.

TESTING

ALL TESTS UNLESS OTHERWISE SPECIFIED WILL BE PERFORMED IN ACCORDANCE WITH MIL-C-17-D (VERIFIED BY CERTIFICATIONS FROM SUPPLIER). IMPEDANCE TESTS WILL BE PERFORMED USING A TIME DOMAIN REFLECTOR (TDR) ON A SAMPLE BASIS IN HOUSE.

OUTER JACKET, ILLUSTRATION (D) SHALL CONFORM TO DB TEST PROCEDURE 090347-000 (PARAGRAPH) 5.2.2 AND 5.3.



REV.	DESCRIPTION	DATE	APP.
G	ECN A0762 ADDED TO TESTING NOTES	03-09-95FP	M.W.
H	ECN A5737 ADD TEST AND CONST. NOTES	2-14-97LU	AD
J	ECN A5820 CHG. 65.9% TO 65.9% ±0.5, DEL (NOM).	02-27-97JK	AD
K	ECN B6271U MOD. NOTES	03/12/02 LB	AP

ALLEN TELECOM

DECIBEL PRODUCTS
8635 STEMMONS FRWY.
DALLAS, TEXAS 75356-9610

TITLE: VB-83 COAXIAL CABLE

SIZE B
DRAWING No. 053001-001
DO NOT SCALE DRAWING

REV. K
SHEET 1 OF 1

MATERIAL: N/A	FINISH: N/A
DRAWN BY: KM	DATE: 9/14/89
CHKD.: AC	DATE: 12/12/89
ELEC. ENG.: AC	DATE: 12/12/89
MECH. ENG.: AD	DATE: 2/14/97
MFR. ENG.: AC	DATE: 12/12/89
RELEASED: AC	DATE: 12/12/89
REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM. AND TOL PER ASME Y14.5M-1984

FRACTION: ±1/32	DECIMAL: .xxx ±.005	ANGLE: ±.5°
SEE WHERE USED		
NEXT ASSEMBLY		

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Cable Source Lan Tec Curtis Lawrence
972 980 - 6878

NOTES:

SPECIFICATIONS FOR DECIBEL PRODUCTS, INC.
VAPOR BARRIER VB-11 COAXIAL CABLE

THIS SPECIFICATION DESCRIBES A COAXIAL CABLE WITH A CHARACTERISTIC IMPEDANCE OF 50 OHMS. THE CABLE IS MANUFACTURED BY DECIBEL PRODUCTS, INC. AND IS DESIGNED TO BE USED IN A VAPOR BARRIER ENVIRONMENT. WATERLEAKAGE TO PREVENT WATER INTRUSION WITHIN THE CABLE. THE WATERLEAKAGE RESISTANCE SHALL BE AT LEAST 10¹⁰ OHM-CM PER SQUARE INCH. THE CABLE SHALL BE TESTED FOR WATERLEAKAGE BY THE WATERLEAKAGE SYSTEM COMPANY, COMPANY #5-4609 OR EQUIVALENT. THE COMPANY SHALL PROVIDE A TEST REPORT TO THE BUYER. THE COMPANY SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CABLE FROM DAMAGE TO THE POLYETHYLENE JACKET. IT SHOULD HAVE THE FOLLOWING PROPERTIES:

DC RESISTIVITY (20°C)
1 X 10¹⁰ OHM-CM
600 VOLTS/CM

DIELECTRIC STRENGTH
100 VOLTS/CM

NOTE: MAY VARY AS CHARACTERISTIC IMPEDANCE REMAINS WITHIN SPEC

THE GENERAL CHARACTERISTICS OF THE COAXIAL CABLE ARE AS FOLLOWS:

CONSTRUCTION

CONDUCTOR (4)
COPPERWELDED, 34910201 DD, 100'S

DIELECTRIC (5)
NATURAL POLYETHYLENE,
37500001 INCHES OD (G-289)

OUTER CONDUCTOR (3)
SINGLE BRAID, 30 GA, 30 P, 2000 P, OD (MAX)
CARBIERS #24
FINISH: 24
FINISH: 24
FINISH: 24

JACKET
POLYETHYLENE, BLACK
POLYETHYLENE, BLACK
POLYETHYLENE, BLACK
POLYETHYLENE, BLACK

OVERALL DIA OF CABLE (3)
0.425 OD ± 0.007

JACKET MATERIAL SHALL CONFORM TO UNDERGARDER
TEMPERATURE RESISTANCE, STANDARD BLACK 9865

ELECTRICAL

CHARACTERISTIC IMPEDANCE
75 ± 1 OHM

DIELECTRIC STRENGTH (6N3)
10 KV RMS

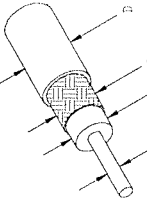
VELOCITY OF PROPAGATION
66.9 ± 0.2%

OPERATING VOLTAGE (MAX)
4 KV

ATTENUATION AT 100 MHz
2.5 dB/100 FT (100M)

ATTENUATION AT 400 MHz
5.2 dB/100 FT (100M)

CAPACITANCE
25.6 pF/FT



ALL TESTS UNLESS OTHERWISE SPECIFIED WILL BE PERFORMED IN ACCORDANCE WITH MIL-17-D. IMPEDANCE TESTS WILL BE PERFORMED USING A TIME DOMAIN REFLECTOR (TDR). DIRECTION OF TEST SHALL BE NETWORK ANALYZER OUTER JACKET ILLUSTRATION (3) SHALL CONFORM TO TEST PROCEDURE 002447-000 PARAGRAPHS 5.2 AND 5.3

REV.	DESCRIPTION	DATE	APP.
A	ECN 5195	1-20-87DR	DR
B	ECN 6296	9-20-88AC	AC
C	ECN 7130	12-12-88KX	AC
D	ECN 7387	12-12-88KX	AC
E	ECN 8551	12-12-88KX	AC
F	ECN 89145	01/19/91	KW
G	ECN 83161	01/12/91	AC
H	ECN 45737	09/28/89SHV	UCH
I	ECN 48820	08/09/89	AD
J	ECN 48820	08/09/89	AD
K	ECN 8827U MOD. NOTES	03/12/02 LB	AP

MATERIAL:	FINISH:
N/A	N/A
BRN BY: KM	DATE: 9/14/89
CHKD: AC	DATE: 12/12/89
ELEC. ENG: AC	DATE: 12/12/89
MESH. ENG: AJ	DATE: 2/14/97
WER. ENG: AC	DATE: 12/12/89
RELEASED: AC	DATE: 12/12/89

FRACTION	DIGITAL	ANGLE
±1/32	XX ± 0.02	± 5°
XX ± 0.01		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

DECIBEL PRODUCTS	8635 STEWARTS FRY
DALAS, TEXAS 75336-9610	
TITLE	VB-11 COAXIAL CABLE
DRAWING No.	053001-004
SIZE	B
DO NOT SCALE DRAWING	
SHEET	1 OF 1

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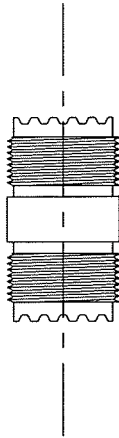
NOTES:

1. MANUFACTURER: AMPHENOL CORPORATION
 1 KENNEDY AVE. DANBURY, CT. 06810
 PHONE: (203) 743-9272
 P/N: 83-1J

ALTERNATE SOURCE: NEW WAVE ELECTRONICS
 P/N 14-3-6



REV.	DESCRIPTION	DATE	APP.
A	RELEASE DRAWING	9/15/95	TR A.C.
B	ECN B6269U MOD NOTES.	03/13/02	LB MW



PURCHASE PART DRAWING

TOLERANCES: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		MATERIAL: N/A	FINISH: N/A
FRACTION: ± 1/32	DECIMAL: .XX ± .005 .XX ± .01	DRAWN BY: TIM RYALS	DATE: B/10/95
	ANGLE: ± 1/2°	MECH. ENG.: M.W.	DATE: B/10/95
		ELEC. ENG.: J.E.	DATE: B/14/95
		CHKD.: A.C.	DATE: B/15/95
	SEE WHERE USED	RELEASE ALL DIMS. AND DIMS. NOTES PART SHALL CONFORM TO DD STANDARD PRACTICES.	
	NEXT ASSEMBLY		

ALLEN TELECOM GROUP PRODUCTS DIVISION	DECIBEL PRODUCTS 6635 STEAMONS FRKY DALLAS, TEXAS 75247-3701
TITLE:	ADAPTER, UHF
SIZE	A
DRAWING NO.	001011-018
DO NOT SCALE DRAWING	
SHEET 1	OF 1

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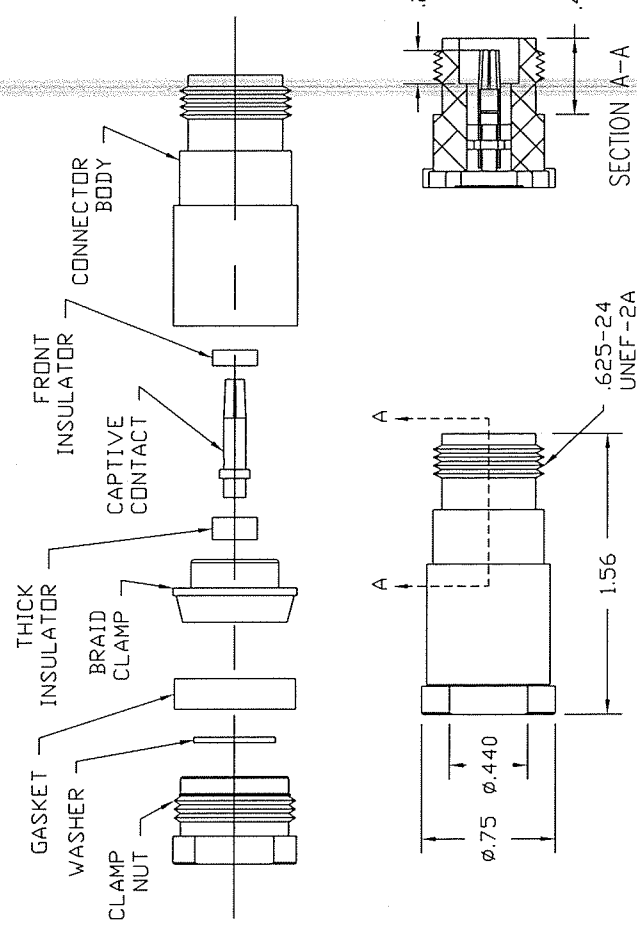
PURCHASED PART DRAWING

REV. A	DESCRIPTION	DATE	APP.
	RELEASE DWG PER M. WAYNE	08/28/03 LB	MW

REVISIONS 08/28/2003 1:36:00

NOTES:

1. MANUFACTURER:
SANTRON
4 NEWBURYPORT TURNPIKE
IPSWICH, MA 01938
TELE: (978) 356-1585
FAX: (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:
DIELECTRICS: PTFE FLUOROCARBON PER ASTM-D-1710,
TYPE I, GR 1, 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 OR ALBALOY
OTHER METAL PARTS: NICKEL PER QQ-N-290,
SILVER PER ASTM B 700 OR ALBALOY
8. PERFORMANCE:
FREQUENCY RANGE: DC-11 GHz
VOLTAGE RATING: 1000 V RMS (SEA LEVEL)
NOMINAL IMPEDANCE: 50 OHMS
D.V.V: 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.

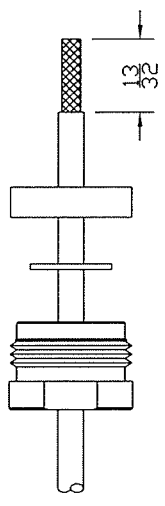


SCALE 1:1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM & TOL PER ASME Y14.5M-1994		MATERIAL: N/A		FINISH: N/A	
DECIMAL: .XXX = ±0.10 .XX = ±0.2 .X = ±.1	ANGLE: ±.5°	DRAWN BY: L. BENITEZ	DATE: 08/27/03	DECIBEL PRODUCTS 8635 STEMMONS FRWY. DALLAS, TEXAS 75356-9610	
SEE WHERE USED NEXT ASSEMBLY		CHKD.: J. EVANS	DATE: 08/28/03	TITLE: CONNECTOR, FEMALE	
		ELEC. ENG.: M. WAYNE	DATE: 08/28/03	UG-1186/U	
		MECH. ENG.: Z. BALTER	DATE: 08/28/03	DRAWING No. 001009-146	
		RELEASED: M. WAYNE	DATE: 08/28/03	REV. A	
		REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.		DO NOT SCALE DRAWING	
				SHEET 1 OF 2	

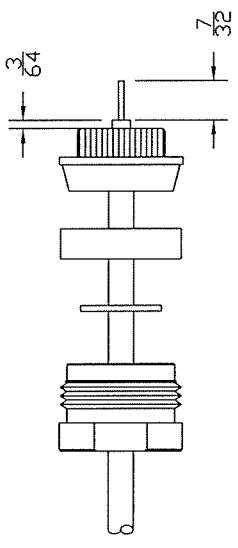
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FOR NOTES SEE SHEET 1.



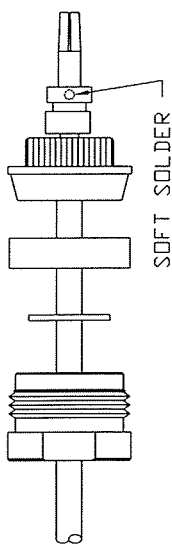
STEP 1

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.



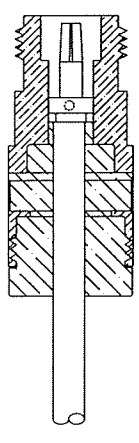
STEP 2

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.



DECIBEL PRODUCTS
 8635 STEMMONS FRWY.
 DALLAS, TEXAS 75356-9610

TITLE: CONNECTOR, FEMALE
 UG-1186/U

SIZE	DRAWING No.	REV.
A	001009-146	A
DO NOT SCALE DRAWING		SHEET 2 OF 2

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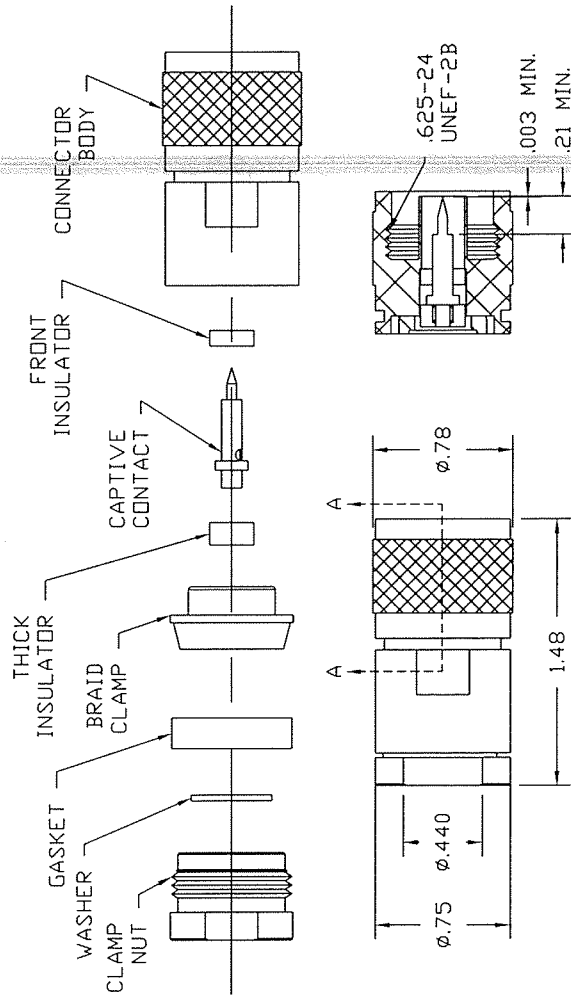
PURCHASED PART DRAWING

REV.	DESCRIPTION	DATE	APP.
A	RELEASE PER M. WAYNE.	08/28/03 LB	MW

REVISIONS	DESCRIPTION	DATE	APP.

NOTES:

- MANUFACTURER:**
SANTRON
4 NEWBURYPORT TURNPIKE
IPSWICH, MA 01938
TELE: (978) 356-1585
FAX: (978) 356-1573
E-MAIL: www.santron.com
P/N: UG-1185/U
- SUGGESTED SOURCE:**
SAME AS ABOVE
- INSPECT THE UNIT/ITEM FOR SHIPPING DAMAGE AND GENERAL WORKMANSHIP.
- SUGGESTED MANUFACTURER/SOURCE IS SOLELY RESPONSIBLE FOR CONFORMANCE TO ALL MECHANICAL, ELECTRICAL, WORKMANSHIP, AND ANY OTHER SPECIFICATIONS ASSOCIATED WITH THE PART NO. ABOVE.
- ALL DIMENSIONS AND TOLERANCES ARE MANUFACTURERS AND ARE REFERENCE.
- MATERIALS:**
DIELECTRICS: PTFE FLUOROCARBON PER ASTM-D-1710, TYPE 1, GR 1, 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
- FINISHES:**
CENTER CONTACTS: SILVER PER ASTM B 700
GOLD PER MIL-G-45204 OR ALBALDY
OTHER METAL PARTS: NICKEL PER QQ-N-290,
SILVER PER ASTM B 700 OR ALBALDY
- PERFORMANCE:**
FREQUENCY RANGE: DC-11 GHZ
VOLTAGE RATING: 1000 V RMS (SEA LEVEL)
NOMINAL IMPEDANCE: 50 OHMS
D.V.V: 2500 V RMS @ 60 HZ (SEA LEVEL)
INSULATION RESISTANCE: 5000 MEGOHMS
TEMPERATURE RANGE: -65°C TO +165°C
- 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

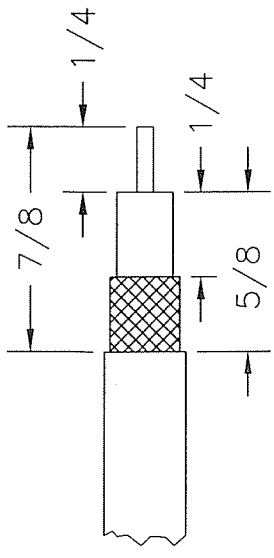
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM & TOL PER ASME Y14.5M-1994		MATERIAL: N/A		FINISH: N/A	
DECIMAL: .XXX = ±.010 .XX = ±.02 .X = ±.1	ANGLE: ±.5°	DRAWN BY: L. BENITEZ	DATE: 08/27/03	DECIBEL PRODUCTS 8635 STEMMONS FRWY. DALLAS, TEXAS 75356-9610	
SEE WHERE USED		CHKD.: J. EVANS	DATE: 08/28/03	TITLE: CONNECTOR, MALE UG-1185/U	
NEXT ASSEMBLY		ELEC. ENG.: M. WAYNE	DATE: 08/29/03	REV. A	
		MECH. ENG.: Z. BALTER	DATE: 08/28/03	DRAWING NO. 001009-144	
		RELEASED: M. WAYNE	DATE: 08/28/03	DO NOT SCALE DRAWING	
		REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.		SHEET 1 OF 2	

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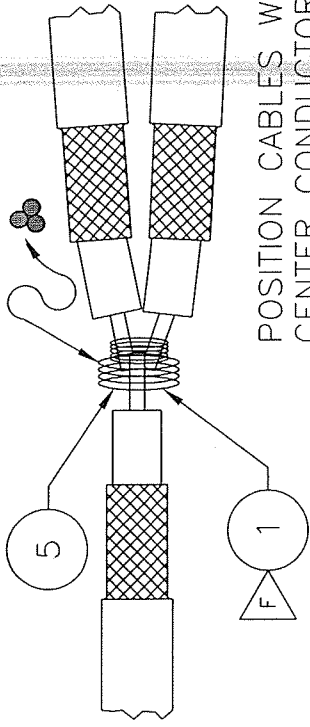
REV.	DESCRIPTION	DATE	APP.

NOTES:

07/29/1999 09:49:00

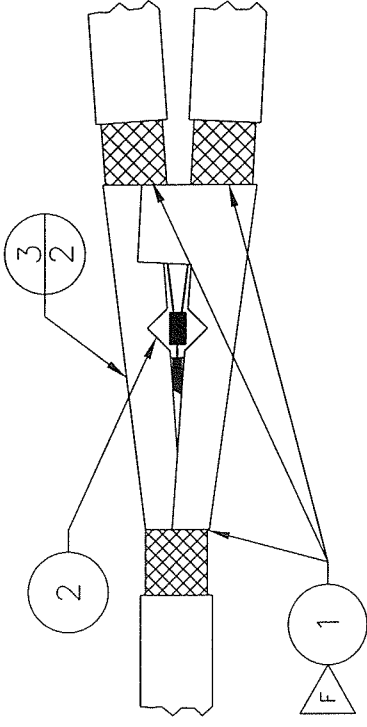


CUT CABLES TO PROPER DIMENSIONS AS SHOWN



POSITION CABLES WITH CENTER CONDUCTORS IN POSITION SHOWN IN VIEW AT UPPER RIGHT. WRAP CENTER CONDUCTORS WITH BUSS WIRE AND COVER WITH SOLDER.

1	2
3	4



COVER ENTIRE ASSEMBLY WITH POLYETHYLENE RESIN (ALATHON), ITEM 4.

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.

		Andrew Corporation 10500 W. 153rd Street Orland Park, IL U.S.A. 60462	
TITLE: CABLE SPLICING INSTRUCTIONS		DRAWING NO. 090015-000 DO NOT SCALE DRAWING	
SIZE A		REV. F	
FINISH: N/A		DATE: 09-24-69	
MATERIAL: N/A		DATE: 10-01-03	
DRAWN BY: D. PERRY		DATE: 09-26-03	
CHKD.: L. NEWSOM		DATE: 10-01-03	
ELEC. ENG.: M. WAYNE		DATE: 10-01-03	
MECH. ENG.: A. PROMYSLOV		DATE: 10-01-03	
MFG. ENG.:		DATE:	
RELEASED: R. C. TROTT		DATE: 04-03-70	
REMOVE ALL BURRS AND SHARP EDGES. PART TO BE FREE OF DIRT, OIL, FOREIGN PARTICLES. PART SHALL CONFORM TO STANDARD PRACTICES PER ADTX COMPANY PROCEDURE 109-1.			
NEXT ASSEMBLY			

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

REV.
F

090015-000

BILL OF MATERIALS

SHEET
2 OF 3

090015-000

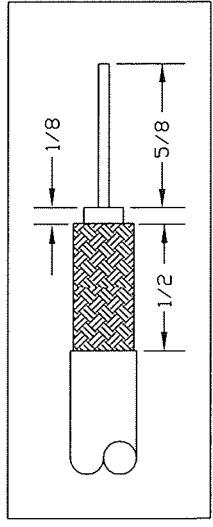
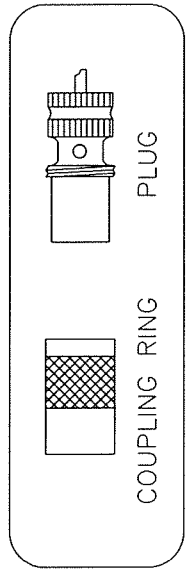
QUANTITY		ITEM	PART NUMBER	DESCRIPTION	U/M
-010-009-008-007-006-005-004-003-002-001	.001	1	002003-042	SOLDER .063 DIA CRYSTAL 502	LB
	.166	2	002001-027	TAPE - TEFLON	FT
	2	3	018008-001	SPLICE CONDUCTOR	EA
	.05	4	011002-015	POLYETHYLENE RESIN - ALATHON #33	OZ
	.5	5	011002-015	WIRE BUSS #27 - B.C. #1	FT
		6			EA
		7			EA
		8			EA
		9			EA
		10			EA
		11			EA
		12			EA
		13			EA
		14			EA
		15			EA
		16			EA
		17			EA
		18			EA
		19			EA
		20			EA
		21			EA
		22			EA
		23			EA
		24			EA
		25			EA
		26			EA
		27			EA
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		29			EA
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		36			EA
		37			EA
		38			EA
		39			EA
		40			EA

REV.	DESCRIPTION	DATE	APP.
A	ECR 3245 RELEASED DRAWING	11-17-99 BK	M.W.

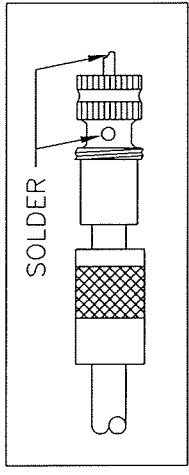
REVISIONS	
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- NOTES:
- 1 CHECK CABLE TYPE, LENGTH AND TRIM FOR CORRECTNESS.
 - 2 TWIST/SCREW THE CONNECTOR PLUG ON TO THE CABLE SO THE BRAID IS VISIBLE THROUGH THE PLUG HOLES.
 - 3 SOLDER THE BRAID TO THE CONNECTOR PLUG THROUGH THE HOLES. FILL THE PLUG 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.
 - 5 IF NEEDED, INSTALL AN ADAPTER AND/OR A T-ADAPTER ONTO THE PL-259 CONNECTOR, PL-258 ADAPTER SHOWN. THE T-ADAPTER IS ATTACHED DIRECTLY TO UHF OR THE PL-258 ADAPTER. IF THE ASSEMBLY REQUIRES A T-ADAPTER A PL-258 ADAPTER MUST BE USED BETWEEN THE 'T' AND THE UHF.
 - 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

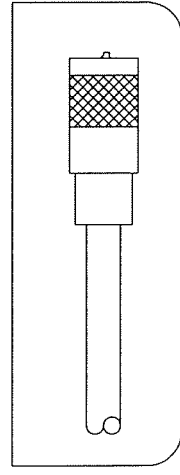


1

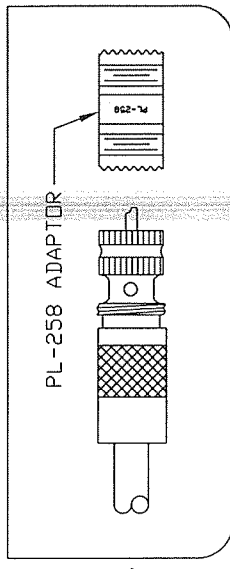


2

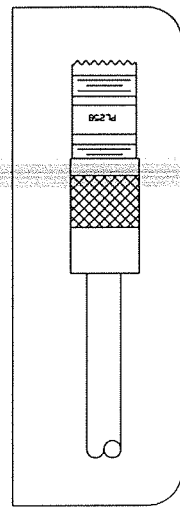
3



4



5



6

7

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM & TOL PER ASME Y14.5M-1994		MATERIAL: N/A		FINISH: N/A	
FRACTION: ± 1/32	DECIMAL: .xxx = ±.005 .xx = ±.01	ANGLE: ±.5°	DRAWN BY: B.K.	DATE: 11-17-99	
			CHKD.: 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	
SEE WHERE USED NEXT ASSEMBLY			REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.		



DECIBEL PRODUCTS
8635 STEMMONS FRWY.
DALLAS, TEXAS 75356-9610

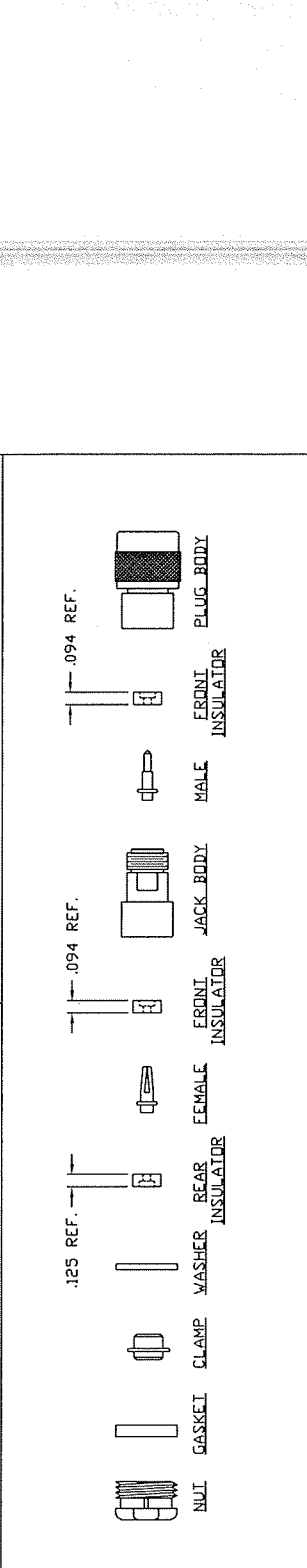
TITLE: UHF INSTALLATION

SIZE: A	DRAWING No. 090484-000	REV. A
DO NOT SCALE DRAWING		SHEET 1 OF 1

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DRAWN	C.B.	DATE	08/24/99
CHK.	E.C.	DATE	08/26/99
DESIGN ENG.	M.W.	DATE	08/26/99
MFG. ENG.	C.P.	DATE	08/26/99
RELEASED	E.C.	DATE	08/26/99

TITLE: ASSY. INSTRUCTIONS
COAXIAL CONNECTOR
TYPE N



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

COMB OUT 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 SHOULDER, 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.

A	RELEASED DWG.	B	ECN B8807U
08/26/99EC		ADD TO NOTES.	
		10/22/03 LB MW	

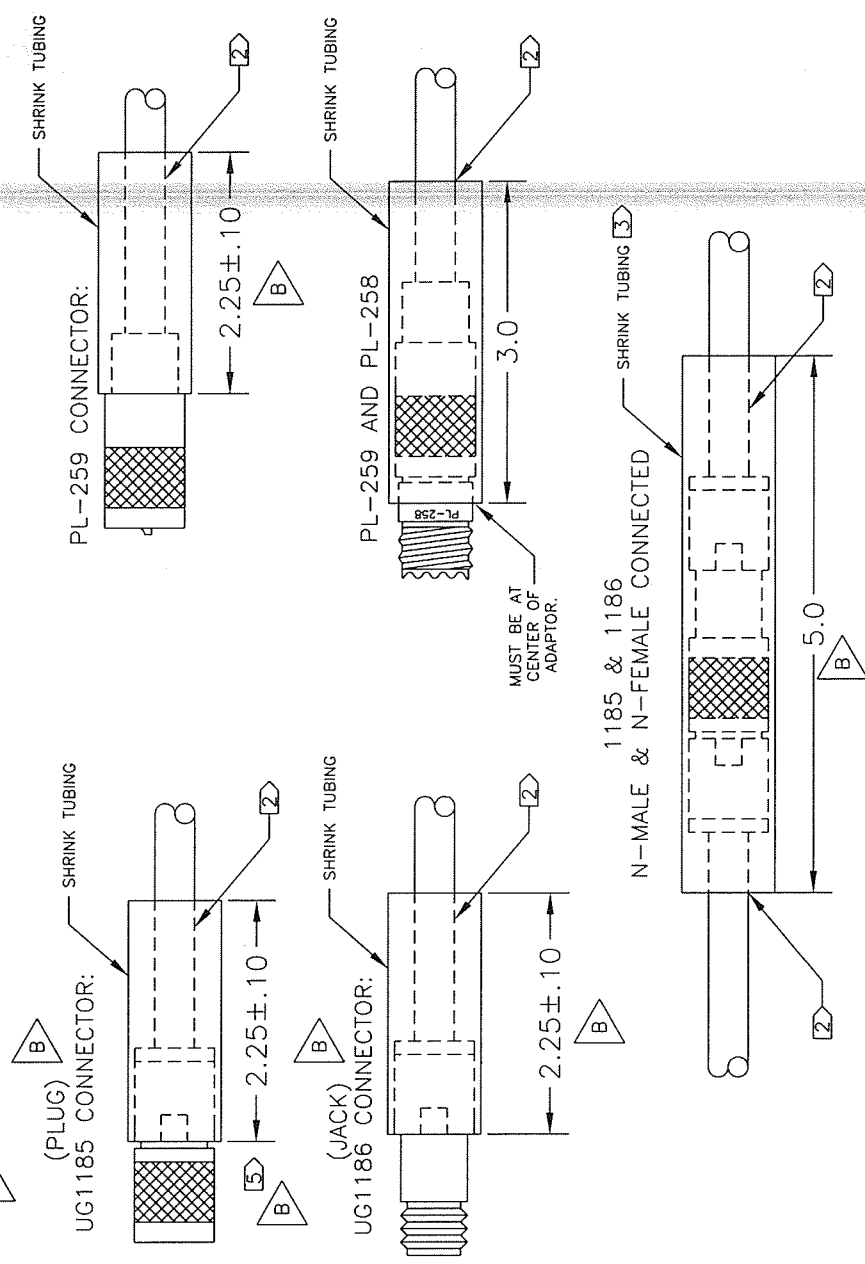


 Andrew Corporation
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REV.	DESCRIPTION	DATE	APPROV.
A	ECN B2361U ADD PICTORIALS, CHG DIM & NOTES.	10/20/2003	MW
B	ECN B8819U CHG DIM AND ADD NOTE 5.	10/20/03	MW

NOTES:

1. LOCATE SHRINK TUBE OVER INTERFACE AS SHOWN
2. APPLY HEAT TO SHRINK TUBING UNTIL IT CLOSES TIGHTLY AND ADHESIVE 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 KNURLED CONNECTOR NUT.

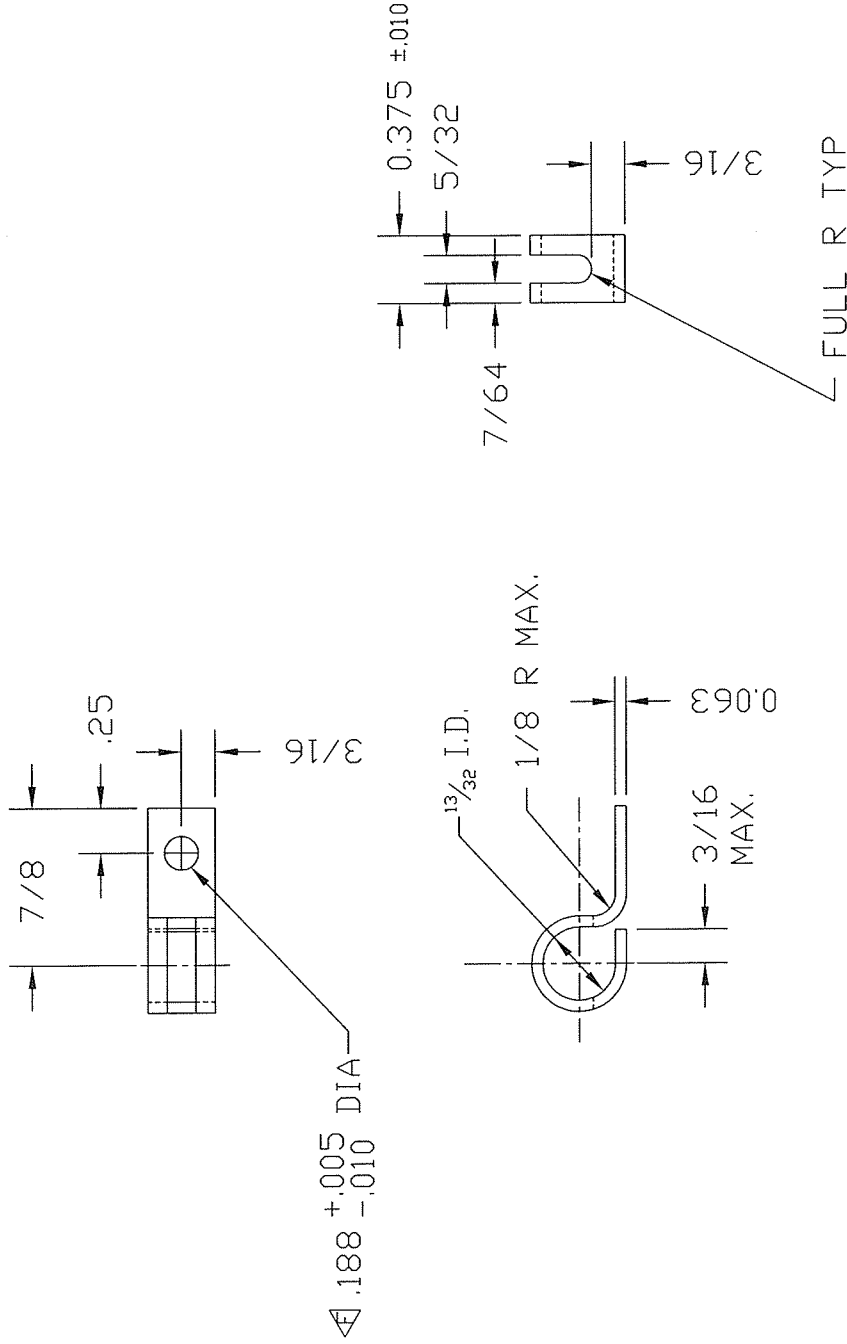


<p>ANDREW®</p> <p>Andrew Corporation 10500 W. 153rd Street Orland Park, IL U.S.A. 60462</p>		<p>FINISH: NA/</p>	
<p>MATERIAL: N/A</p>		<p>DATE: 01-29-92</p>	
<p>DRAWN BY: GW</p>		<p>DATE: 01-29-92</p>	
<p>CHKD.: AG</p>		<p>DATE: 9-25-03</p>	
<p>ELEC. ENG.: MW</p>		<p>DATE: N/A</p>	
<p>MECH. ENG.: N/A</p>		<p>DATE: 01-29-92</p>	
<p>MFR. ENG.: JB</p>		<p>DATE: 01-29-92</p>	
<p>RELEASED: AC</p>		<p>REMOVE ALL BURRS AND SHARP EDGES. PART TO BE FREE OF DIRT, OIL, FOREIGN PARTICLES. PART SHALL CONFORM TO DB STANDARD PRACTICES PER ADIX COMPANY PROCEDURE 109-1.</p>	
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM & TOL PER ASME Y14.5M-1994</p>			
<p>DECIMAL: .XXX = ±.010 .XX = ±.02 .X = ±.1</p>		<p>ANGLE: ±.5°</p>	
<p>NEXT ASSEMBLY</p>			
<p>Andrew Corporation 10500 W. 153rd Street Orland Park, IL U.S.A. 60462</p>		<p>TITLE: INSTALLATION, SHRINK TUBING</p>	
<p>SIZE: B</p>		<p>DRAWING No. 090222-000</p>	
<p>DO NOT SCALE DRAWING</p>		<p>REV. B</p>	
<p>SHEET 1 OF 1</p>		<p>REV. B</p>	

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NOTES:

1. MATERIAL - COLD ROLLED ELECTROLYTIC TOUGH PITCH COPPER #110
2. ALL FRACTIONS TO BE $\pm 1/64$
3. DECIBEL HAS TOOLING NUMBER 018100-001 #3
4. FINISH: .0005 MIN. ELECTRO TIN PLATE. \triangleleft



REVISIONS			
REV.	DESCRIPTION	DATE	APP.
A	ECN 242		
B	ECN 1237		
C	ECN 1895		
D	ECN 8900 CHG DIMS & TOLERANCES	9-17-91EC	J.B.
E	ECN 09108 REV DIMS.	11/20/91GW	J.B.
F	ECN A7168 DEL TABLE, ADD TOL.	08-18-97CB	M.W.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIM & TOL PER ASME Y14.5M-1994		MATERIAL: SEE NOTE 1		FINISH: SEE NOTE 4	
FRACTION: $\pm 1/32$	DECIMAL: .xxx = $\pm .005$.xx = $\pm .01$	ANGLE: $\pm .5^\circ$	DRAWN BY: DM	DATE: 1-29-70	
			CHKD.: RCT	DATE: 4-8-70	
			ELEC. ENG.: N/A	DATE: N/A	
			MECH. ENG.: N/A	DATE: N/A	
			MFG. ENG.: N/A	DATE: N/A	
			RELEASED: RCT	DATE: 4-8-70	
SEE WHERE USED					
NEXT ASSEMBLY					
REMOVE ALL BURRS AND SHARP EDGES. PART SHALL CONFORM TO DB STANDARD PRACTICES.					
ALLEN TELECOM		DECIBEL PRODUCTS			
DECIBEL PRODUCTS		8635 STEMMONS FRWY. DALLAS, TEXAS 75356-9610			
TITLE: LUG, SHIELD		DRAWING No. 018100-001			
SIZE A		DO NOT SCALE DRAWING		REV. F	
				SHEET 1 OF 1	

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