

<b>NOTICE OF REVISION (NOR)</b>			1. DATE (YYMMDD)  07/08/14		Form Approved OMB No. 0704-0188		
This revision described below has been authorized for the document listed.							
Public reporting burden for this collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSED. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/ PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.					2. PROCURING ACTIVITY NO.		
					3. DODAAC		
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code)  Defense Supply Center Columbus 3990 East Broad Street Columbus, Ohio 43216-5000		5. CAGE CODE  037Z3		6. NOR NO.  5935-R047-007	
a. TYPED NAME (First, Middle Initial, Last)  Ron Gary				7. CAGE CODE  037Z3		8. DOCUMENT NO.  85072	
9. TITLE OF DOCUMENT  Connector, Receptacle, Electrical, Radio Frequency, Series BMA, Jamnut Mount, For Semirigid Cable (Pin Contact)			10. REVISION LETTER		11. ECP NO.  N/A		
			a. CURRENT  G		b. NEW  H		
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES  ALL							
13. DESCRIPTION OF REVISION  Sheet 1: Revisions Ltr. Column; add "H" Revisions description column; add "Changes in accordance with NOR 5935-R047-007". Revisions date column; add "?????????" Revisions rev status of pages, blocks 1 and 9, add "H". Revisions rev status of sheet 1, add "H".  Sheet 10: Revisions Ltr block, delete "G" and substitute "H"  Sheet 9: Add the following new Vendor PIN's  "DSCC drawing PIN 1/ Vendor CAGE Number  85072ZSGA 95077 1711-6003 85072ZSGB 95077 1711-6004  Vendor reference PIN  Sheet 9: Add the following vendor:  "Vendor CAGE Number Vendor name and address  95077 SV Microwave 2400 Centre Park West Dr. West Palm Beach, FL 33409"							
14. THIS SECTION FOR GOVERNMENT USE ONLY							
a. (X one)		(1) Existing document supplemented by the NOR may be used in manufacture.					
		(2) Revised document must be received before manufacturer may incorporate this change.					
		(3) Custodian of master document shall make above revision and furnish revised document.					
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT  DSCC-VAI				c. TYPED NAME (First, Middle Initial, Last)  ABDONASSER ABDOUNI			
d. TITLE  CHIEF, INTERCONNECTION DEVICES		e. SIGNATURE  Abdonasser Abdouni		f. DATE SIGNED (YYMMDD)  07/08/14			
15a. ACTIVITY ACCOMPLISHING REVISION  DSCC-VAI		b. REVISION COMPLETED (Signature)  Ron Gary		c. DATE SIGNED (YYMMDD)  07/08/14			

# REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	Add source 74868.	13 Jan 1987	R. Marbais
B	Add source F0503.	18 Jan 1989	R. Marbais
C	Add source 34078.	25 Feb 1991	C. W. Koeller
D	Changes in accordance with NOR 5935-R005-00.	29 Mar 2000	Robert Heber
E	Project never issued.	-----	-----
F	Changes in accordance with NOR 5935-R007-03.	17 Jan 2003	Robert Heber
G	Cancel document.	15 Sept 2003	Richard Taylor

## Notice of Cancellation

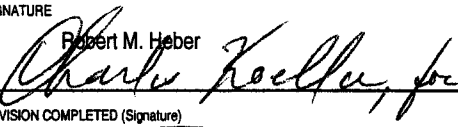

DSCC Drawing 85072 is hereby canceled.  
All future acquisitions shall be made to MIL-PRF-31031/12.

CURRENT DESIGN ACTIVITY CAGE CODE 037Z3  
DEFENSE LOGISTICS AGENCY  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43216-5000

Prepared in accordance with MIL-STD-100.

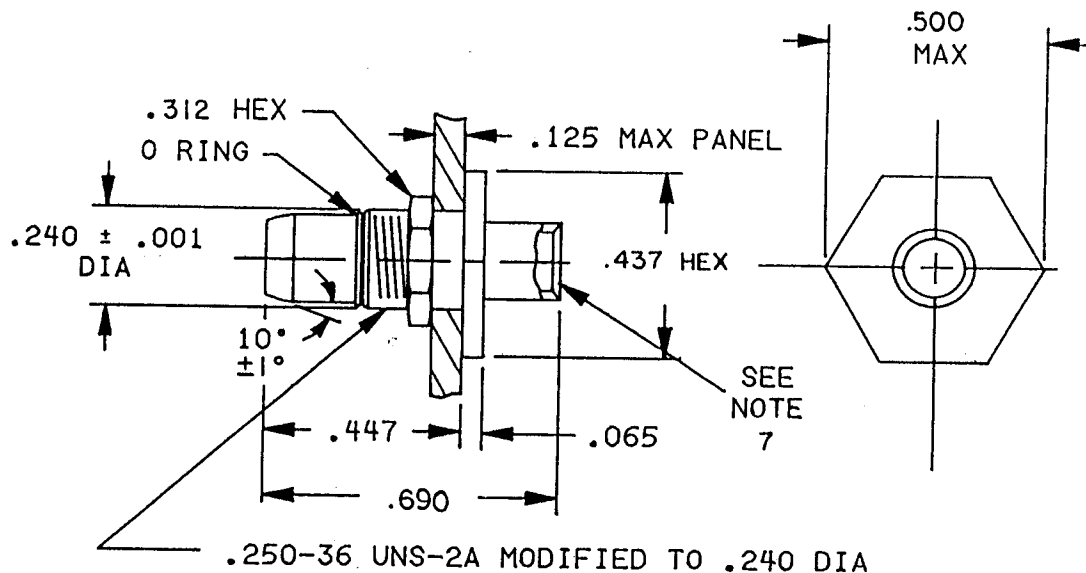
REV																				
PAGE																				
REV STATUS	REV	G	C	C	C	A					C									
OF PAGES	PAGE	1	2	3	4	5	6	7	8	9										
PMIC G	PREPARED BY Ron Gary					DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO														
Original date of drawing  24 February 1986	CHECKED BY Jeffery F. Bohannon					TITLE CONNECTOR, RECEPTACLE, ELECTRICAL, RADIO FREQUENCY, SERIES BMA, JAMNUT MOUNT, FOR SEMIRIGID CABLE (PIN CONTACT)														
	APPROVED BY Richard Marbais																			
	SIZE A	CAGE CODE 14933				DWG. NO. 85072														
REV G					PAGE 1					OF 9										

<h2 style="margin: 0;">NOTICE OF REVISION (NOR)</h2> <p style="margin: 10px 0;">This revision described below has been authorized for the document listed.</p>			<b>1. DATE</b> (YYMMDD)  03-01-17	Form Approved OMB No. 0704-0188															
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			<b>3. DODAAC</b>																
<b>4. ORIGINATOR</b>	<b>b. ADDRESS (Street, City, State, Zip Code)</b> Defense Supply Center Columbus 3990 East Broad Street Columbus, Ohio 43216-5000	<b>5. CAGE CODE</b> 03723	<b>6. NOR NO.</b> 5935-R007-03																
<b>a. TYPED NAME (First, Middle Initial, Last)</b> Ron Gary		<b>7. CAGE CODE</b> 03723	<b>8. DOCUMENT NO.</b> 85072																
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<b>14. THIS SECTION FOR GOVERNMENT USE ONLY</b>																			
<b>a. (X one)</b>	<input checked="" type="checkbox"/> X  <input type="checkbox"/>  <input type="checkbox"/>	(1) Existing document supplemented by the NOR may be used in manufacture.  (2) Revised document must be received before manufacturer may incorporate this change.  (3) Custodian of master document shall make above revision and furnish revised document.																	
<b>b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT</b> <div style="text-align: center;">DSCC-VAI</div>			<b>c. TYPED NAME (First, Middle Initial, Last)</b> <div style="text-align: center;">ROBERT HEBER</div>																
<b>d. TITLE</b> <div style="text-align: center;">CHIEF, INTERCONNECTION DEVICES</div>	<b>e. SIGNATURE</b> <div style="text-align: center;">Robert M. Heber</div>		<b>f. DATE SIGNED (YYMMDD)</b> <div style="text-align: center;">03-01-17</div>																
<b>15a. ACTIVITY ACCOMPLISHING REVISION</b> <div style="text-align: center;">DSCC-VAI</div>	<b>b. REVISION COMPLETED (Signature)</b> <div style="text-align: center;">Ron Gary</div>		<b>c. DATE SIGNED (YYMMDD)</b> <div style="text-align: center;">03-01-17</div>																

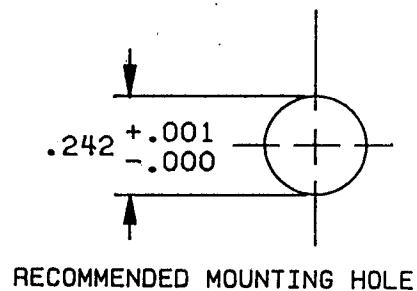
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4. ORIGINATOR  a. TYPED NAME (First, Middle Initial, Last) Ron Gary	b. ADDRESS (Street, City, State, Zip Code) Defense Supply Center Columbus 3990 East Broad Street Columbus, Ohio 43216-5000		5. CAGE CODE 037Z3  7. CAGE CODE 037Z3
9. TITLE OF DOCUMENT CONNECTOR, RECEPTACLE, ELECTRICAL, RADIO FREQUENCY, SERIES BMA, JAMNUT MOUNT, FOR SEMIRIGID CABLE, (PIN CONTACT)		10. REVISION LETTER  a. CURRENT C      b. NEW D	6. NOR NO. 5935-R005-00  8. DOCUMENT NO. 85072  11. ECP NO. N/A
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES ALL			
13. DESCRIPTION OF REVISION Sheet 1: Revisions Ltr. Column; add "D" Revisions description column; add "Changes in accordance with NOR 5935-R005-00". Revisions date column; add "00-03-29" Revisions Ltr column; add "D".  Sheet 1: Add the following statement to the front page:  <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px auto; width: 80%;">             THIS DRAWING IS INACTIVE FOR NEW DESIGN.              ALL FUTURE ACQUISITIONS SHALL BE MADE TO              MIL-PRF-31031/12.           </div>			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	X   <input type="checkbox"/>   <input type="checkbox"/>	(1) Existing document supplemented by the NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT DSCC-VAI		c. TYPED NAME (First, Middle Initial, Last) ROBERT HEBER	
d. TITLE CHIEF, INTERCONNECTION DEVICES	e. SIGNATURE 		f. DATE SIGNED (YYMMDD) 00-03-29
15a. ACTIVITY ACCOMPLISHING REVISION DSCC-VAI	b. REVISION COMPLETED (Signature) Ron Gary 		c. DATE SIGNED (YYMMDD) 00-03-29

LTR	DESCRIPTION	DATE	APPROVED
A	Add source 74868	13.67 JAN	R. Marlow
B	Add source F0503	18 JAN 1989	R. Marlow
C	Add source 34078	25 FEB. 1991	CW Koller

[illegible]



Inches	mm	Inches	mm
.000	0.00	.250	6.35
.001	0.03	.312	7.92
.065	1.65	.437	11.10
.125	3.18	.447	11.35
.240	6.10	.500	12.70
.242	6.15	.690	17.53

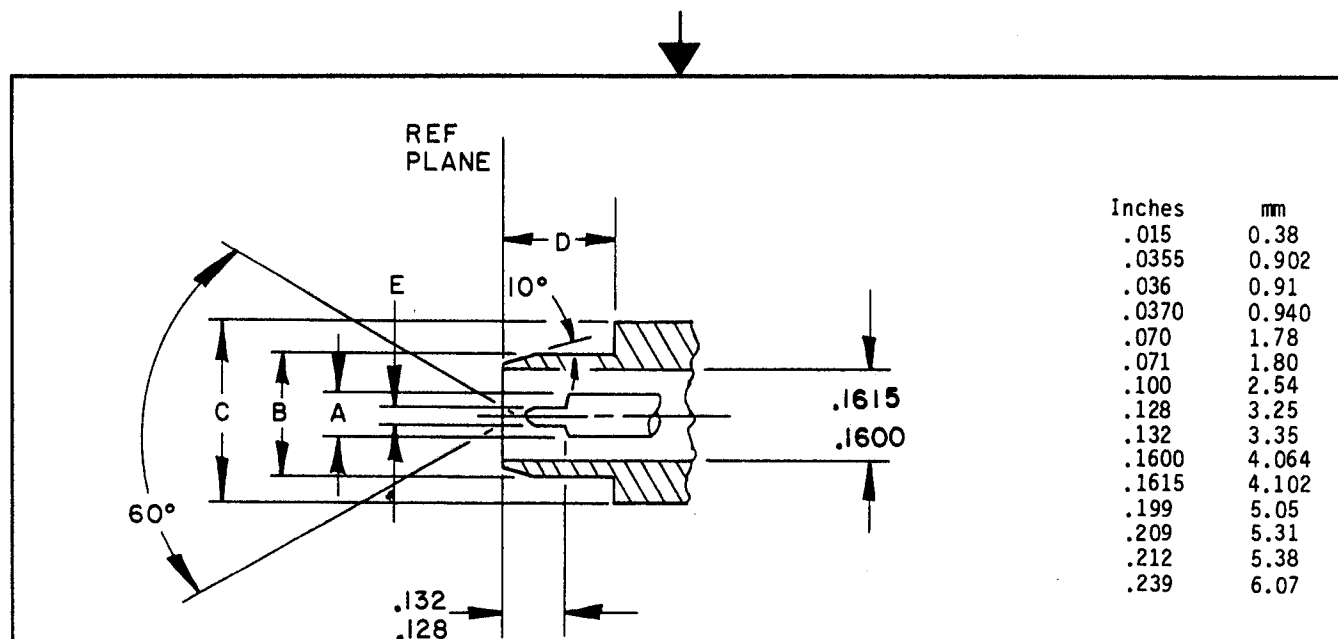


NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for general information only.
3. Dimension .500 (12.70 mm) is the largest overall diameter of the connector.
4. Wrench flats are to accommodate standard wrench openings in accordance with FED-STD-H28, appendix 10.
5. All undimensioned pictorial configurations are for reference purposes only.
6. Unless otherwise specified, all tolerances shall be ±.005 (0.13 mm).
7. See table III for cable accommodation.
8. No special tools shall be required for assembly to cables.

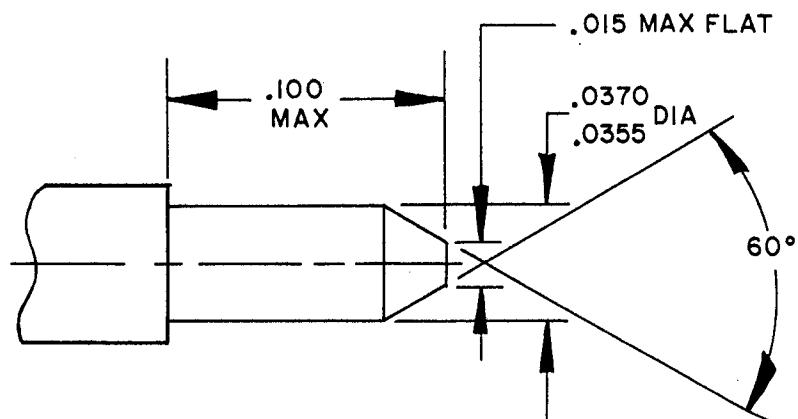
FIGURE 1. General configuration.

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO	SIZE A	CODE IDENT. NO. <b>14933</b>	DWG NO. 85072
		REV C	PAGE 2



Interface dimensions

A:	.070/.071
B:	.209/.212
C:	.239 Min
D:	.199 Min
E:	.036 Ref



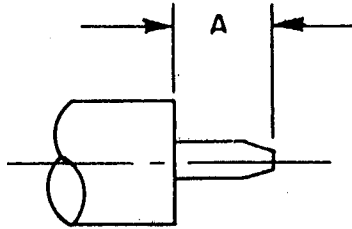
DETAIL -A-

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for general information only.
3. Patent notice: The government has a royalty free license under the following listed patent for the benefit of manufacturers of the item either for the government or for use in equipment to be delivered to the government - 4,426,127.

FIGURE 2. Interface dimensions, pin contact.

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Stripping dimensions

Cable	Dimension A	
	Minimum	Maximum
M17/130-RG402 M17/130-00001 M17/130-00002 M17/130-00003	.080 (2.03 mm)	.090 (2.29 mm)
M17/133-RG405 M17/133-00001 M17/133-00002 M17/133-00003 M17/133-00004 M17/133-00005	.065 (1.65 mm)	.075 (1.91 mm)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for general information only.
3. Tapering of center conductor is optional.

FIGURE 3. Cable stripping dimensions.

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ENGINEERING DATA:

Nominal impedance: 50 ohms  $\pm$ 1.

Frequency range: 0 to 18 GHz.

Voltage rating: The voltage rating shall be in accordance with table I.

TABLE I. Voltage rating.

Cable	Voltage maximum (at sea level)	Voltage maximum (70,000 feet)
	<u>V rms</u>	<u>V rms</u>
M17/133-RG405 M17/133-00001 M17/133-00002 M17/133-00003 M17/133-00004 M17/133-00005	335	85
M17/130-RG402 M17/130-00001 M17/130-00002 M17/130-00003	500	125

Temperature rating: -65°C to +125°C.

REQUIREMENTS: (Requirements of drawing 84148 are also applicable.)

Dimensions and configuration: See figures 1, 2, and 3.

Force to engage and disengage:

Longitudinal force: Not applicable.

Torque: Not applicable.

Coupling proof torque: Not applicable.

Hermetic seal: Not applicable.

Leakage (pressurized connectors): Not applicable.

Center contact retention: 6 pounds minimum axial force.

Radial torque: Not applicable.

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Voltage standing wave ratio (VSWR):

<u>Cables</u>	<u>VSWR</u>
M17/133-RG405	1.05 +.005 F (GHz)
M17/133-00001	
M17/133-00002	
M17/133-00003	
M17/133-00004	
M17/133-00005	
M17/130-RG402	1.02 + .005 F (GHz)
M17/130-00001	
M17/130-00002	
M17/130-00003	

Contact resistance (in milliohms maximum):

	<u>Initial</u>	<u>After environment</u>
Center contact:	3.0	4.0
Outer contact:	2.0	Not applicable
Outer cable conductor to body:	0.5	Not applicable

Dielectric withstanding voltage at sea level: Method 301 of MIL-STD-202.

<u>Cables</u>	<u>V rms</u>
M17/133-RG405	1,000
M17/133-00001	
M17/133-00002	
M17/133-00003	
M17/133-00004	
M17/133-00005	
M17/130-RG402	1,500
M17/130-00001	
M17/130-00002	
M17/130-00003	

Vibration: High frequency: MIL-STD-202, method 204, test condition D.

Shock: Method 213, test condition I, MIL-STD-202.

Thermal shock: Method 107, test condition B, MIL-STD-202, except test high temperature shall be +115 °C.

Moisture resistance: Method 106 of MIL-STD-202, except step 7b shall be omitted. Resistance shall be 200 megohms within 5 minutes after removal from humidity.

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Corona level:

Altitude: 70,000 feet.

<u>Cables</u>	<u>Volts (minimum)</u>
M17/133-RG405	250
M17/133-00001	
M17/133-00002	
M17/133-00003	
M17/133-00004	
M17/133-00005	
M17/130-RG402	375
M17/130-00001	
M17/130-00002	
M17/130-00003	

RF high potential withstanding voltage:

Frequency: 5 MHz to 7.5 MHz.

Leakage current: Not applicable.

<u>Cables</u>	<u>V rms</u>
M17/133-RG405	670
M17/133-00001	
M17/133-00002	
M17/133-00003	
M17/133-00004	
M17/133-00005	
M17/130-RG402	1,000
M17/130-00001	
M17/130-00002	
M17/130-00003	

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Cable retention force: See table II.

TABLE II. Cable retention force.

Cable	Pounds (minimum)	Torque <sup>1/</sup> inch-ounces
M17/133-RG405 M17/133-00001 M17/133-00002 M17/133-00003 M17/133-00004 M17/133-00005	30	16
M17/130-RG402 M17/130-00001 M17/130-00002 M17/130-00003	60	-55

1/ Torque to be applied 4 inches maximum from the end of the connector. Reverse bend not applicable.

Coupling mechanism retention force: Not applicable.

RF leakage: -85-F(GHz)dB, minimum (fully mated).

RF insertion loss: dB maximum =  $.03 \times \sqrt{\text{frequency GHz}}$ . Test frequency at a frequency between 15.5 and 18 GHz.

Part number: See table III.

Note: These parts are for use in general radio frequency applications.

TABLE III. Part number to cable accommodation.

Connector part number	Cable
85072ZSGB	M17/133-RG405 M17/133-00001 M17/133-00002 M17/133-00003 M17/133-00004 M17/133-00005
85072ZSGA	M17/130-RG402 M17/130-00001 M17/130-00002 M17/130-00003

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Approved sources of supply: Approved sources of supply are listed herein. Additional sources will be added as they become available. The vendors listed herein have agreed to this drawing and a certificate of compliance has been submitted to DESC-EMT.

For assistance in the use of this drawing, contact DESC-E, 1507 Wilmington Pike, Dayton, OH 45444 or telephone (513)296-5391.

Note: Alternate test methods may be approved and sources listed herein if the test procedure is submitted to DESC-EMT with the certificate of compliance.

DESC drawing part number	Vendor CAGE number	Vendor similar part number
85072ZSGA	26805	4503-5022-00
	34078	BMA086-4141-001
	74868	900-1025
	F0503	R128055
85072ZSGB	26805	4503-5023-00
	34078	BMA086-4085-001
	74868	900-1026
	F0503	R128052

Vendor CAGE  
number

Vendor name  
and address

✓ 26805

Omni Spectra, Incorporated  
140 Fourth Avenue  
Waltham, MA 02254

34078

Midwest Microwave ✓  
6564 South State Road  
Saline, MI 48176

74868

Allied Amphenol  
33 E. Franklin Street  
Danbury, CT 06810

F0503

Radiall  
81 Bd Denfert  
Rochereau B.P. 328-38509  
Voiron Cedex, France

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