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**11 Laurier St. / 11, rue Laurier**  
**Place du Portage , Phase III**  
**Core 0B2 / Noyau 0B2**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

**Revision to a Request for Supply**  
**Arrangement - Révision à une demande**  
**pour un arrangement en matière**  
**d'approvisionnement**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
**fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**  
Defence Communications Division. (QD)  
11 Laurier St./11, rue Laurier  
Place du Portage, Phase III, 8C2  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> SUPPLY ARRANGEMENT-CABLES, WIRES...	
<b>Solicitation No. - N° de l'invitation</b> W8476-145075/A	<b>Date</b> 2015-05-28
<b>Client Reference No. - N° de référence du client</b> W8476-145075	<b>Amendment No. - N° modif.</b> 005
<b>File No. - N° de dossier</b> 025qd.W8476-145075	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-025-25084	
<b>Date of Original Request for Supply Arrangement</b> 2015-04-15 <b>Date de demande pour un arrangement en matière d'app. originale</b>	
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-06-10</b>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Dewar, Francine	<b>Buyer Id - Id de l'acheteur</b> 025qd
<b>Telephone No. - N° de téléphone</b> (819) 956-5974 ( )	<b>FAX No. - N° de FAX</b> (819) 956-6907
<b>Delivery Required - Livraison exigée</b>	
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> see herein	
<b>Security - Sécurité</b> This revision does not change the security requirements of the solicitation. Cette révision ne change pas les besoins en matière de sécurité de l'invitation.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Acknowledgement copy required</b>	<b>Yes - Oui</b>	<b>No - Non</b>
<b>Accusé de réception requis</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>The Offeror hereby acknowledges this revision to its Offer.</b> <b>Le proposant constate, par la présente, cette révision à son offre.</b>		
<b>Signature</b>	<b>Date</b>	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
<b>For the Minister - Pour le Ministre</b>		

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**This RFSA Amendment no 005 is raised to:**

1. Address Bidders' questions for this week - this installment will cover Questions #23-24 incl.

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**1. Bidders' Questions and Answers set**

- Q.23 Annex A Section: 3.1.5: Voltage Standing Wave Ratio (VSWR) Requirements. The document asks us to perform this test on Low complexity CAs using test methods of IPC/WHMA-A-620B Section 19.5.5.**

**This IPC/WHMA-A-620B Section 19.5.5 test is not required unless specified by the user (which it is), so we need the parameters defined for this cable by the technical authority.**

**We need to know the following for cable assembly 9376080-16:**

- **The frequency range (Mhz)**
- **Ratio of input power to reflected power (:\_:\_)**

- A.23** Frequency should range as shown in the attached Belden RG-142 Specs @1000 Ft, followed by calculations based on cable length.

- Q.24 Cable EPD52946A is called out in drawing 0976319-3. Annex A article 3.1.2 DC Bonding Resistance Requirements calls for a DC resistance test between the back shells at either end of the cable. In order to do this, we need to know the specifications (EPD cable resistance value/m) for this particular cable. This cable is a restricted product and its specifications are not available from the manufacturer. Please provide the EPD cable resistance value/m.**

- A.24** DC Resistance maximum for the following cables:

0976322-1

P1-P2 - 10.2 milliohm

P1-J1 - 8.6 milliohm

0976319-3

P1-P2 - 7 milliohm

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**All other terms and conditions remain unchanged.**

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



84142 Coax - 50 Ohm Coax



For more Information  
please call

1-800-Belden1



## General Description:

19 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, double silver-coated copper braid shields (95% coverage), FEP jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	19	Solid	SCCCS - Silver-coated Copper-covered Steel	0.037

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.116

### Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	Silver-coated Copper	95.000
2	Braid	Silver-coated Copper	95.000

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cable

Overall Nominal Diameter: 0.195 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	200°C
Bulk Cable Weight:	42 lbs/1000 ft.
Max. Recommended Pulling Tension:	146 lbs.
Min. Bend Radius/Minor Axis:	2 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (RoHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-DTL-17, M17/60
RG Type:	142/U

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



84142 Coax - 50 Ohm Coax

## Flame Test

CSA Flame Test: FT6

## Plenum/Non-Plenum

Plenum (Y/N): Yes

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
50

### Nom. Inductance:

Inductance (µH/ft)
.067

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
29.0

### Nominal Velocity of Propagation:

VP (%)
70%

### Nominal Delay:

Delay (ns/ft)
1.48

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
19.3

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.3

### Maximum VSWR:

Freq. (MHz)	Max. VSWR
50	1.11
400	1.14
1000	1.17
3000	1.33
8000	1.33

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	1.1
50	2.6
100	3.8
200	5.4
400	7.9
700	10.7
900	12.3
1000	13.1
2000	19.3
3000	24.2
5000	32.6
8000	43.2

### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
50	4
100	5.5
400	11.7
1000	19
3000	35
8000	66

### Max. Power Rating:

Freq. (MHz)	Rating (W)
50	3500
100	2400
400	1100
1000	650
3000	330

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



84142 Coax - 50 Ohm Coax

8000	180
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Max. Operating Voltage - UL:

Voltage
150 V RMS

## Misc. Information (Overall)

## Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
84142 001100	100 FT	5.000 LB	BROWN		M17/60-RG142 COAX
84142 0011000	1,000 FT	44.000 LB	BROWN	C E	M17/60-RG142 COAX
84142 001500	500 FT	22.500 LB	BROWN	C E	M17/60-RG142 COAX

### Notes:

C = CRATE REEL PUT-UP.

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Number: 6    Revision Date: 04-04-2014

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