



REQUEST FOR INFORMATION (RFI)

RFI No: 15-219/WJG

WASHINGTON METROPOLITAN AREA

TRANSIT AUTHORITY

600 FIFTH STREET, NW

WASHINGTON DC 20001

(“WMATA” OR “AUTHORITY”)

1 5/8 INCH RADIATING COAXIAL CABLE

DATE: AUGUST 7, 2015

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Introduction

The Washington Metropolitan Area Transit Authority (WMATA) submits this Request for Information (RFI) from those entities (Contractor / Respondent) interested in providing industry information regarding the Scope Overview below. The purpose of this RFI is to solicit information that will enable WMATA to determine industry participation in response to the release of a future solicitation.

Input that entities or interested participants provide will be reviewed and considered

This is a Request for Information only and your response is not an offer. This Request for Information does not commit WMATA to any incurred costs in preparation of any submission to this notice, or to contract for services.

Background Information

WMATA is in the process of updating its radio communication system. As part of this project, WMATA has they have a need for approximately 100 miles of 1 5/8 inch radiating coaxial cable. Additionally, WMATA supplementary projects may dictate the need for an additional 100 miles of the same radiating coaxial cable.

WMATA is seeking a Contractor / Vendor / Supplier who can satisfy the FTA Buy America¹ requirements and comply with the following technical requirements.

Scope Overview

The cable shall be a radiating cable with a black jacket material of non-halogenated, fire retardant polyolefin. The dielectric material shall be foam PE (Polyethylene). The inner conductor shall be corrugated copper tube and the outer conductor shall be copper foil. The tape barrier shall be Mica.

The nominal size shall be 1-5/8 inches and the diameter of the over jacket shall be 1.960 inches maximum. The inner conductor outside diameter shall be 0.7150 inches and the outer conductor outside diameter conductor shall be 1.725 inches. The cable weight shall be 0.54 lbs. /ft.

The operating band shall be 500 MHz to 2700 MHz and have a vertical polarization. The optimum operating frequency band shall be 700 to 960 MHz and the 1700 to 2400 MHz.

¹ Buy America. The Authority shall comply with Section 165 of the Surface Transportation Assistance Act of 1982, 49 USC 1601, Section 337 of the Surface Transportation and Uniform Relocation Assistance Act of 1987, and 49 CFR Part 611, which impose Buy America Provisions on the procurement of foreign products and materials.
http://www.fta.dot.gov/legislation_law/12921.html

The typical VSWR (Voltage Standing Wave Ratio) in the 1700 to 2400 MHz band is 1.38 and in the 700 to 960 MHz band is 1.30. The cable impedance shall be 50 Ohms (+/- 2 Ohms). The inner conductor resistance shall be 0.410 Ohms/foot and the outer conductor resistance shall be 0.600 Ohms/foot.

The insulation resistance shall be greater than 100,000 MOhms with a jacket spark test voltage of 10000 V(rms), a peak power capacity of 302 KW, and a velocity of 93%. The cable shall have an installation temperature of minus 22 Degree F to plus 140 degree F with an operating temperature of minus 22 Degree F to plus 176 degree F.

The cable shall have a bending moment of 16.0 N-m, a flat plate crush strength of 46.0 lbs. / in, a minimum bending radius of 20.0 inches, a tensile strength of 475 lbs., and an external indication of slot adjustment. The cable shall have a 4.0 inch recommended distance from wall and a 4.3 feet recommended hanger spacing.

The radiating cable shall have successfully passed NFPA 130, IEC 60332-1, and IEC 60332-3C-24 Fire Retardancy Testing; IEC 61034 Smoke Index Testing, and ICEC 60754-1, IEC 60754-2 Toxicity Index Smoke Testing.

Using Attenuation Test Method IEC 61196-4 at an ambient temperature of 68 degrees F, the leaky coax cable shall provide the following attenuation (with a tolerance of +/- 5%):

700 MHz	1.80 dB/100 m	70 Coupling Loss (50%)	73 Coupling Loss (95%)
800 MHz	1.90 dB/100 m	69 Coupling Loss (50%)	71 Coupling Loss (95%)
900 MHz	2.10 dB/100 m	68 Coupling Loss (50%)	70 Coupling Loss (95%)
960 MHz	2.10 dB/100 m	69 Coupling Loss (50%)	72 Coupling Loss (95%)
1700 MHz	3.30 dB/100 m	64 Coupling Loss (50%)	69 Coupling Loss (95%)
1800 MHz	3.50 dB/100 m	61 Coupling Loss (50%)	65 Coupling Loss (95%)
1900 MHz	3.80 dB/100 m	61 Coupling Loss (50%)	66 Coupling Loss (95%)
2000 MHz	4.20 dB/100 m	60 Coupling Loss (50%)	67 Coupling Loss (95%)
2100 MHz	4.30 dB/100 m	60 Coupling Loss (50%)	67 Coupling Loss (95%)
2200 MHz	4.60 dB/100 m	60 Coupling Loss (50%)	67 Coupling Loss (95%)
2300 MHz	5.00 dB/100 m	59 Coupling Loss (50%)	66 Coupling Loss (95%)
2400 MHz	5.40 dB/100 m	57 Coupling Loss (50%)	65 Coupling Loss (95%)
2500 MHz	5.80 dB/100 m	57 Coupling Loss (50%)	63 Coupling Loss (95%)
2600 MHz	6.50 dB/100 m	56 Coupling Loss (50%)	63 Coupling Loss (95%)
2700 MHz	7.80 dB/100 m	55 Coupling Loss (50%)	64 Coupling Loss (95%)

Submission of Information

Respondents are requested to review the Scope Overview and submit responses to the following:

1. Name of Organization to include telephone and fax numbers, name and email address and mailing address of primary point of contact.
2. Type of Organization: Individual Partnership Corporation Joint Venture
 - a. If a Joint Venture, please state name of the joint venture members and their business size(s).
3. Date Organized: _____ State in which incorporated: _____
4. How long has your firm been in business under its present name: _____
5. Describe your experience and capability to provide the cable described in the Scope Overview?
6. Describe your previous project experience with WMATA (if any) or similar transit agency?
7. Provide a list of current contracts, (limited to no more than 5) which demonstrates your proficiency in providing the cable as described in the Scope Overview.
8. Is your organization a certified WMATA Disadvantaged Business Enterprise (DBE); certification number? If not a DBE, is your firm able to meet the obligations of such a program?
9. Is the information provide in the Scope Overview clearly defined? Do you understand WMATA's requirements? If not, what information should be added, revised or modified?
10. Are the requirements of the Scope Overview too restrictive?

This Request for Information is issued for informational and planning purposes only. It is not to be construed as a commitment by WMATA to issue a solicitation or ultimately award a contract. Responses will not be considered as proposals nor will any award be made because of this RFI. WMATA will NOT be responsible for any costs incurred by interested parties in responding to this Request for Information.

WMATA's Point of Contact

WMATA's sole point of contact (POC) for matters relate to this RFI shall be William J. Geroux, Contract Administrator. Mr. Geroux is the only individual authorized to discuss this RFI with any interested party. All communications with Mr. Geroux about this RFI shall be in writing via electronic mail.

William J. Geroux, Contract Administrator

Electronic Mail: wgeroux@wmata.com

WMATA disclaims the accuracy of information derived from any source other than WMATA's POC, and the use of any such information is at the sole risk of the Respondent.

All written communications to WMATA from Respondent shall specifically reference this Request for Information; RFI No. 15-219/WJG.

Submission of Information

Responses shall be no more than 10 pages in addition to the standard informational or promotional literature of the submitting entry. The submission shall be clearly marked as RFI 15-219/WJG.

Submissions must be sent (as an attachment) via electronic mail to the attention of William J. Geroux, Contract Administrator at wgeroux@wmata.com. In the "Subject" line of your email, please insert RFI 15-219/WJG. In the body of email, please insert your name, firm name and address, telephone number and email address.

All submissions must be received by close of business, August 31, 2015.

Rights and Obligations of WMATA

WMATA reserves to itself all rights (which rights shall be exercisable by WMATA in its sole discretion) available to it under applicable law, including without limitation, the following, with or without cause and with or without notice:

- I. The right to cancel, withdraws, postpones or extends the RFI in whole or in part at any time, without incurring any obligations or liabilities;
- II. The right it issue a new RFI;
- III. The right to reject any submittals and responses received at any time;

- IV. The right to modify all dates set or projected in this RFI;
- V. The right to terminate evaluations of responses received at any time;
- VI. The right to suspend and terminate this RFI, at any time;
- VII. The right to waive or permit corrections to data submitted with any response to this RFI;
- VIII. The right to issue addenda, supplements, and modifications to this RFI;
- IX. The right to permit submittal of addenda and supplements to data previously provided with any response to this RFI;
- X. The right to hold meetings and conduct discussions and correspondence with one or more of the Respondents responding to this RFI to seek and improved understanding of the responses to the RFI.