



REQUEST FOR QUOTATION

<p>Contact person/Telephone Larry Waxman/201-395-3451</p>	<p>Collective# 0000035498</p> <p>Bid Due Date 12/03/2013</p> <p>Bids must be received no later than 11:00 AM on the above Bid Due Date.</p> <p>Deliver Goods/Services To: Path Attn: Les Flagler c/o Mike Brady Academy Street</p>
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Quantity	Description	Unit Price	Total
	<p>PLEASE FOLLOW RETURN TO BID INSTRUCTIONS. REPLY IF POSSIBLE ONLY ON PATH/PA REQUEST FOR QUOTATION FORM AS ATTACHING YOUR COMPANY'S TERMS & CONDITIONS MAY CAUSE YOUR BID TO BE DEEMED NON RESPONSIVE AND OR DELAY AN AWARD ISSUED.</p> <p>QUOTE FOB DELIVERED PRICING ON ALL ITEMS.</p> <p>A price preference of 10 % is available for NY/NJ Minority and Women Business Enterprises (M/WBE) or 5% for NY/NJ Small Business Enterprises (SBE) certified by the Port Authority (PA) by the day before bid opening for awards not exceeding \$1,000,000. My firm was certified as a _____ on _____.</p> <p>QUESTIONS CONTACT: LARRY WAXMAN TEL: 201 395 3451 OR EMAIL: Lwaxman@panynj.gov</p> <p>IN THE INVENT OF AN ORDER ADVISE DELIVERY IN DAYS _____ A.R.O.</p> <p>PRICING SHEET FOR EIGHT (8) LINE ITEMS:INCLUDING item number, Manufacturer Part Number, UNIT COST, LINE ITEM COST, SPECIFICATIONS.</p>		
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	IF OFFERING OTHER THAN xxxxxxxx AS SPECIFIED INCLUDE WITH YOUR BID RESPONSE TWO COPIES OF CATALOG CUTS/SPECIFICATIONS/DRAWINGS FOR PATH / PORT AUTHORITY REVIEW AND APPROVAL.				
	1) Rockbestos-Surprenant Cable Corporation © or approved equal RSCC VM05012-200 #12 AWG, 5 conductor MC fire rated cable. QUANTITY: 2750 FEET* X UNIT COST \$ _____ = \$ _____ TOTAL COST OFFERING: MANUFACTURER _____ AND PART NUMBER _____.				
	2) Rockbestos-Surprenant Cable Corporation © or approved equal RSCC VM04006-200 #6 AWG, 5 conductor MC fire rated cable QUANTITY: 2200 FEET** X UNIT COST \$ _____ = \$ _____ TOTAL COST OFFERING: MANUFACTURER _____ AND PART NUMBER _____.				
	3) American Connectors Inc. or approved equal WT 097-100 S3				
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	W/ET 100 Stainless Steel connector with Earth tag 12 AGW QUANTITY 250 EACH X UNIT COST \$ _____ = \$ _____ TOTAL COST OFFERING: MANUFACTURER _____ AND PART NUMBER _____. 4) American Connectors Inc. or approved equal WT 132-125 S3 W/ET 125 Stainless Steel connector with Earth tag 6 AGW QUANTITY 25 EACH X UNIT COST \$ _____ = \$ _____ TOTAL COST OFFERING: MANUFACTURER _____ AND PART NUMBER _____. 5) Adalet or approved equal Adalet4054 NEMA 4X 304 SS enclosure/Hinged Clamped Cover/ 6#Hx8#Wx4#D/(3) Cutouts # 1ea- Right/Top/Bottom QUANTITY 40 EACH X UNIT COST \$ _____ = \$ _____ TOTAL COST OFFERING: MANUFACTURER _____ AND PART NUMBER _____. 6) Adalet or approved equal Adalet4055 NEMA 4X 304 SS enclosure/Hinged Clamped Cover/6#Hx8#Wx4#D/(3) Cutouts -1 ea- Left/Top/Bottom QUANTITY 40 EACH X UNIT COST \$ _____ =		
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	<p>\$ _____ TOTAL COST</p> <p>OFFERING: MANUFACTURER _____ AND PART NUMBER _____.</p> <p>7)</p> <p>Adalet or approved equal Adalet4056 NEMA 4X 304 SS enclosure/Hinged Clamped Cover/8#Hx10#Wx4#D/ (2) Cutouts-1 ea Right/Left QUANTITY 10 EACH X UNIT COST \$ _____ = \$ _____ TOTAL COST</p> <p>OFFERING: MANUFACTURER _____ AND PART NUMBER _____.</p> <p>8)</p> <p>Rockbestos-Surprenant Cable Corporation © or approved equal RSCC VX99000-001 Slice kits. QUANTITY 75 EACH X UNIT COST \$ _____ = \$ _____ TOTAL COST</p> <p>OFFERING: MANUFACTURER _____ AND PART NUMBER _____.</p> <p>NOTES: * Item 1 (#12 AWG cable) should be delivered with reels of 200 feet length. **Item 2 (#6 AWG cable)) should be delivered with reels of 100</p>		
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	feet length. NOTES CONTINUED: ALL PRICES QUOTED INCLUDING ANY TESTING, DRAWINGS ETC. SHALL BE FIRM AND FIXED WITHOUT ADJUSTMENT FOR THE ENTIRE IRREVOCABLE BID PERIOD OF 90 DAYS AFTER THE BID OPENING DATE. ----- DRAWING AND SPECIFICATIONS SUBMITTAL SHALL BE REQUIRED WITHIN THREE (3) BUSINESS DAYS FROM NOTICE BY THE PROCUREMENT DEPARTMENT FOR REVIEW AND APPROVAL. ----- CABLE MUST BE DELIVERED ON NON-RETURNABLE WOOD REELS. TOTAL CABLE TOLERANCE: MINUS ZERO (0) / PLUS 5% / TOTAL RUN. REEL TOLERANCE: MINUS ZERO (0)/PLUS FIVE (5)% /REEL. MARKINGS: MFGR., P/N, DATE, PATH PO#. REEL #S. ===== ===== ---				
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	SPECIFICATIONS AS APPLICABLE DATED 9/9/13.				
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**PAYMENT
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	<p>DIVISION 16. SECTION 16121</p> <p>1 HOUR FIRE RATED MC CABLES, SPLICES, TERMINATIONS, AND BOXES (600 VOLTS OR LESS)</p> <p>PART 1. GENERAL</p> <p>1.01 SUMMARY</p> <p>This Section specifies requirements for Metal Clad (MC) wires and cables, splices, terminations, and appurtenances for electrical systems of 600 volts or less to be installed in Tunnels, Substations, and Subway areas used for Emergency applications.</p> <p>1.02 REFERENCES</p> <p>The following is a listing of the publications referenced in this Section: American Society for Testing and Materials (ASTM) ASTM B 1 Hard-Drawn Copper Wire ASTM B 2 Medium-Hard-Drawn Copper Wire ASTM B 3 Soft or Annealed Copper Wire ASTM B 8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft ASTM B 33 Tinned Soft or Annealed Copper Wire for</p>				
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	Electrical Purposes ASTM B 174 Bunch-Stranded Copper Conductors for Electrical Conductors ASTM B 189 Lead-Coated and Lead-Alloy-Coated Soft Copper Wire for Electrical Purposes ASTM E 662 Standard Test Method for specific Optical Density of Smoke Generated by Solid Materials Federal Specifications (FS) HH-I-553 Insulation Tape, Electrical (Rubber, Natural and Synthetic) Insulated Cable Engineers Association (ICEA) ICEA T-33-655 Guide for Low Smoke, Halogen-Free (LSHF) Polymeric Cable Jackets Institute of Electrical and Electronics Engineers (IEEE) IEEE 837 Standard for Qualifying Permanent Connections Used in Substation Grounding Military Specifications MIL C-24643 Electrical Cable and Cord for Shipboard Use, Testing for Low Smoke and Halogens National Fire Protection Association (NFPA) NFPA 70 National Electrical Code Naval Engineering Standards NES 713 Determination of Toxicity Index of Products of Combustion From Small Specimens of Materials Underwriters Laboratories Inc. (UL) UL 44 Rubber-Insulated Wires and Cables UL 83 Thermoplastic-Insulated Wires and Cables UL 467 Grounding and Bonding Equipment				
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	UL 1581 Reference Standard for Electrical Wires, Cables, and Flexible Cords UL 1685 Standards for Safety Vertical Tray Fire Propagation and Smoke Release Test for Electrical and Optical Fiber Cables National Fire Protection Association (NFPA) NEMA OS1 Sheet Steel Outlet Boxes, Device Boxes, Covers and Box Supports NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum) 1.03 QUALITY ASSURANCE A. Wires and cables which have been manufactured more than two years prior to installation shall not be used in the Work of this Section. B. Tapes for splices or terminations dated by the tape manufacturer to indicate that they have been manufactured no longer than six months prior to use in the Work of this Section. C. Polyvinyl Chloride (PVC): PVC-insulated power wiring and items containing PVC, except PVC-insulated wiring for communications systems, remote control, signaling, and power-limited circuits, shall not be installed in indoor area. PVC-insulated wiring for communications systems, remote control, signaling, and power-limited circuits shall be furnished and installed in accordance with NFPA 70. D. The manufacturer shall have a minimum of five (5) years experience in manufacturing cable of the type and size				
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	<p>described herein and the Contractor shall have the manufacturer provide a list of installations and contracts for which he has produced such materials.</p> <p>E. The cable shall be manufactured and tested under the control of a quality assurance system that conforms to the requirements of ISO 9000.</p> <p>1.04 DELIVERY, STORAGE, AND HANDLING</p> <p>A. The MC cable shall be provided with factory-applied caps. End seals shall be heat-shrink, irradiated, modified polyolefin.</p> <p>B. Store material in a clean, dry space and protect it from the weather.</p> <p>1.05 SUBMITTALS</p> <p>See Appendix "A" for submittals requirements.</p> <p>PART 2. PRODUCTS</p> <p>2.01 MANUFACTURERS</p> <p>Subject to compliance with requirements of this Section, provide MC cable, boxes, splicing, terminating and arcproofing materials of manufacturers as shown on the Contract Drawings.</p> <p>2.02 WIRES AND CABLES</p>				
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	<p>A. General</p> <p>1. This written specification relates to the following cables:</p> <p>a. A multi-conductor MC cable comprising five (5) insulated solid or stranded conductors No. 12 AWG.</p> <p>b. A multi-conductor MC cable comprising five (5) stranded insulated conductors No. 6 AWG.</p> <p>2. Locations, types, sizes and numbers of wires and cables are shown on the Contract Drawings. Where not indicated, provide proper wire and cable selection to comply with this section and NFPA 70 Standards.</p> <p>3. Unless otherwise shown on the Contract Drawings, solid conductors shall be soft or annealed copper, conforming to ASTM B 33 (tinned), ASTM B 189 (lead-coated or lead-alloy coated), or ASTM B 3 (uncoated). Unless otherwise specified in this Section or unless otherwise shown on the Contract Drawings, stranded copper conductors shall be concentric stranding conforming to ASTM B 8.</p> <p>4. The performance characteristics for the MC cables which shall include stringent flame retardency, low smoke, low toxicity, zero halogen and good circuit integrity during a fire are required.</p> <p>a. Wires shall pass the flame propagatory criteria according to the test methods of VW-1 and UL 1685.</p> <p>b. The halogen content of both the wire and cable insulation and cable jacket(s) shall not exceed 0.2 percent according to the test method of MIL-C-24643. The Authority classifies 0.2</p>				
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	percent or less halogen content as "non-halogen". c. The toxicity index of both the wire and cable insulation and cable jacket(s) shall not exceed 2.0 according to the test method of NES 713. d. The acid gas content of both wire and cable insulation and cable jacket(s) shall not exceed a maximum of 2.0 percent according to the test method of MIL-C-24643. e. The wire and cable insulation materials shall pass the smoke generation test in accordance with ASTM E 662. Wire and cable insulation when tested on a specimen of 80 mils thick slab shall not exceed the following values: Flaming Avg. Ds (4 minutes) 100 Flaming Avg. Dm (20 Minutes) 200 Non-Flaming Avg. Ds (4 minutes) 100 Non-Flaming Avg. Dm (20 minutes) 350 f. The cable jacket materials shall pass the smoke generation test in accordance with ASTM E 662. Wire and cable jacket when tested on a specimen of 80 mils thick slab shall not exceed the following values: Flaming Avg. Ds (4 minutes) 50 Flaming Avg. Dm (20 minutes) 150 Non-Flaming Avg. Ds (4 minutes) 50 Non-Flaming Avg. Dm (20 minutes) 250 g. Circuit Integrity: All cables shall pass the 1 hour fire rated test as outlined in UL Standard 2196, be classified as an Electrical Circuit Protective System (FHIT), and listed as System No. 17 in the UL Building materials Directory. The qualification shall be listed in the UL				
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	<p>Fire Resistive Directory.</p> <p>h. Flame Resistance: The cables shall comply with the vertical tray flame test as outlined in UL Standard 1581, the FT-4 Flame Test per CSA Standard 22.2 No. 03 and the IEEE 1202.</p> <p>B. MC Cable assembly:</p> <p>a. Wire and cable insulation: all conductors are insulated with a thermoset ceramifiable silicone layer with its thickness and tolerance in accordance with UL Standard No. 44.</p> <p>b. Conductor Assembly: insulated conductors shall be cabled in accordance with UL Standard 1569. Fillers or binder tape shall not be allowed.</p> <p>c. Inner Jacket: the cabled core shall be covered with a thermoset ceramifiable silicone jacketing material. Thickness in accordance with UL Standard No. 1569.</p> <p>d. Overall Cable Metallic Sheath: a minimum 25mil impervious continuously welded and corrugated copper sheath shall be applied over the jacketed core. The armor sheath capacity shall meet or exceed the UL requirements for equipment ground sizing.</p> <p>e. Outer Jacket: A LSZH polyolefin, low smoke, zero halogen jacket shall be applied over the copper sheath. Jacket properties for LSZH polyolefin shall be per UL Standard 1569.</p> <p>C. Color-Coding for Power and Lighting Conductors</p>				
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	<p>a. Insulation or covering of wires and cables shall be factory color-coded by the use of colored compounds or coatings. The color-code shall be followed consistently throughout the performance of the Work.</p> <p>b. Upon written request of the Contractor, the Engineer may permit the use of the following methods in lieu of the wire or cable manufacturer's color-coding, when limited quantities of wire and cable are involved, for sizes #8 AWG and larger.</p> <p>(1) For dry locations only, spiral application of 3/4 inch wide, colored pressure sensitive plastic tape, half lapped for a distance of not less than six inches may be used. To prevent unwinding, the last two wraps of tape shall be applied with no tension.</p> <p>(2) For wet or dry locations, application of three, 3/16 inch wide, colored, fungus-inert, self-extinguishing, self-locking, nylon cable ties spaced 3 inches apart may be used. The ties shall be snugly applied with a special tool or pliers, and any excess removed.</p> <p>(3) Each wire and cable shall be color-coded at all terminal points, in all manholes, boxes, or other similar enclosures.</p> <p>(4) Color markings shall be applied so as not to obliterate the manufacturer's identification markings.</p> <p>c. Color code chart shall be as follows:</p> <p>Conductor 480Y/277V Phase A Brown Phase B Orange Phase C Yellow</p>		
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	Neutral Gray Ground Green D. Cable Tags 1. Dry Locations a. Fiberglass tags, 1/16 inch thick and 3/4 inch wide, indented with letters and numbers 5/16 inch high, with #14 AWG copper or nylon, weather-resistant cable ties. b. Lighting branch circuit wiring may be identified with "Quikables" manufactured by W. H. Brady Company, or approved equal. 2. Wet Locations Stainless steel metal tags, No. 28 gauge and 3/4 inch wide, embossed with letters and numbers 5/16 inch high, with #14 AWG copper or nylon, weather-resistant cable ties, or stainless steel cable ties. 2.03 BOXES AND ENCLOSURES 1. All materials for making connectors and boxes shall be 1 hour Fire Rated and approved for Emergency and Life Safety applications. 2. The boxes and enclosures shall protect against dust, dirt, and oil. 3. Shall be made of 304 Stainless Steel #14 Gauge. 4. Listed as NEMA 4X. 5. Have a watertight Urethane gasket.				
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	6. Shall have a lift off cover with captive screws or a hinged cover. 7. All boxes and enclosures shall have a grounding stud inside the box and cover. 8. Shall pass UL 2196 for a minimum of 1 hour (including Hose Stream). Spliced circuits must be maintained during and after the test. 2.04 CONNECTORS AND SPLICING A. Connectors 1. Connectors shall be designed for Transit applications where they are subject to high vibration, high pressure hosing, and general wet conditions. 2. Shall be made from 303 Stainless Steel. 3. Maintain direct continuous contact between the body of the connector and the armor of the cable for more than 2 revolutions. 4. Only the body of the connector in contact with the cable armor. No components shall connect the body of the connector to the cable armor (i.e. springs, screws, plates, etc). 5. One piece connector body and cable securing mechanism. The scroll or piece that attaches to the cable should be inseparable from the connector body. 6. Connector must pass the UL 2196 Flame Test for 1 Hour (including Hose Stream). Mechanical retention between the connector body and mechanical cable securing mechanism,				
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	<p>must be made and maintained during and after the test.</p> <p>7. Stainless Steel Connectors and Grounding Earth-tag shall be UL Listed.</p> <p>8. All connectors shall be provided with two (2) lock nuts.</p> <p>B. Splicing</p> <p>1. All splicing, terminating and arcproofing materials shall be compatible so that no one material will adversely affect the physical or electrical properties of any other, or of the wire or cable itself.</p> <p>2. All materials for making splices and terminations shall be specifically designed for use with the type of wire or cable, insulation and installation and operating conditions of the specific application.</p> <p>3. All wires, cables, splices and terminations, for which there are established UL standards, shall bear the UL label.</p> <p>2.05 SHOP TESTS</p> <p>1. For quantities as shown on the Contract Drawings, regular dielectric-withstand and insulation-resistance in water tests for wires and cables shall be performed in accordance with UL44.</p> <p>2. Flame tests for wires and cables shall be performed in accordance with IEEE 383.</p> <p>3. The test results shall be certified for each reel/coil/box of wire or cable.</p> <p>4. Factory inspection and witnessing of tests by the Engineer</p>				
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	<p>shall be required for all wires and cables furnished under this Contract. The Engineer reserves the right to require additional testing, or to waive factory inspection or witnessing of tests. The Contractor shall notify the Engineer 14 days in advance of the scheduling of such factory tests.</p> <p style="text-align: center;">END OF SECTION</p> <p style="text-align: center;">SECTION 16121 WIRE, CABLES, SPLICES, TERMINATIONS (600 VOLTS OR LESS)</p> <p style="text-align: center;">APPENDIX "A"</p> <p style="text-align: center;">SUBMITTALS</p> <p>A. Submit Catalog Cuts for the following in accordance with the requirements of "Shop Drawings, Catalog Cuts and Samples" of Division 1 - GENERAL PROVISIONS:</p> <ol style="list-style-type: none"> 1. Wires and cables for each type and size; 2. Splice kit materials. 3. Connectors. 4. All boxes and fittings. <p>B. Submit certified shop test reports for wires and cables.</p> <p style="text-align: center;">END OF APPENDIX "A"</p> <p>=====</p> <p>SPECIFICATIONS AS APPLICABLE</p>				
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	<p>DATED 9/9/13. DIVISION 16. SECTION 16121</p> <p>1 HOUR FIRE RATED MC CABLES, SPLICES, TERMINATIONS, AND BOXES (600 VOLTS OR LESS)</p> <p>PART 1. GENERAL</p> <p>1.01 SUMMARY</p> <p>This Section specifies requirements for Metal Clad (MC) wires and cables, splices, terminations, and appurtenances for electrical systems of 600 volts or less to be installed in Tunnels, Substations, and Subway areas used for Emergency applications.</p> <p>1.02 REFERENCES</p> <p>The following is a listing of the publications referenced in this Section: American Society for Testing and Materials (ASTM) ASTM B 1 Hard-Drawn Copper Wire ASTM B 2 Medium-Hard-Drawn Copper Wire ASTM B 3 Soft or Annealed Copper Wire ASTM B 8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft</p>				
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	ASTM B 33 Tinned Soft or Annealed Copper Wire for Electrical Purposes ASTM B 174 Bunch-Stranded Copper Conductors for Electrical Conductors ASTM B 189 Lead-Coated and Lead-Alloy-Coated Soft Copper Wire for Electrical Purposes ASTM E 662 Standard Test Method for specific Optical Density of Smoke Generated by Solid Materials Federal Specifications (FS) HH-I-553 Insulation Tape, Electrical (Rubber, Natural and Synthetic) Insulated Cable Engineers Association (ICEA) ICEA T-33-655 Guide for Low Smoke, Halogen-Free (LSHF) Polymeric Cable Jackets Institute of Electrical and Electronics Engineers (IEEE) IEEE 837 Standard for Qualifying Permanent Connections Used in Substation Grounding Military Specifications MIL C-24643 Electrical Cable and Cord for Shipboard Use, Testing for Low Smoke and Halogens National Fire Protection Association (NFPA) NFPA 70 National Electrical Code Naval Engineering Standards NES 713 Determination of Toxicity Index of Products of Combustion From Small Specimens of Materials Underwriters Laboratories Inc. (UL) UL 44 Rubber-Insulated Wires and Cables UL 83 Thermoplastic-Insulated Wires and Cables				
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	UL 467 Grounding and Bonding Equipment UL 1581 Reference Standard for Electrical Wires, Cables, and Flexible Cords UL 1685 Standards for Safety Vertical Tray Fire Propagation and Smoke Release Test for Electrical and Optical Fiber Cables National Fire Protection Association (NFPA) NEMA OS1 Sheet Steel Outlet Boxes, Device Boxes, Covers and Box Supports NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum) 1.03 QUALITY ASSURANCE A. Wires and cables which have been manufactured more than two years prior to installation shall not be used in the Work of this Section. B. Tapes for splices or terminations dated by the tape manufacturer to indicate that they have been manufactured no longer than six months prior to use in the Work of this Section. C. Polyvinyl Chloride (PVC): PVC-insulated power wiring and items containing PVC, except PVC-insulated wiring for communications systems, remote control, signaling, and power-limited circuits, shall not be installed in indoor area. PVC-insulated wiring for communications systems, remote control, signaling, and power-limited circuits shall be furnished and installed in accordance with NFPA 70. D. The manufacturer shall have a minimum of five (5) years				
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	<p>experience in manufacturing cable of the type and size described herein and the Contractor shall have the manufacturer provide a list of installations and contracts for which he has produced such materials.</p> <p>E. The cable shall be manufactured and tested under the control of a quality assurance system that conforms to the requirements of ISO 9000.</p> <p>1.04 DELIVERY, STORAGE, AND HANDLING</p> <p>A. The MC cable shall be provided with factory-applied caps. End seals shall be heat-shrink, irradiated, modified polyolefin.</p> <p>B. Store material in a clean, dry space and protect it from the weather.</p> <p>1.05 SUBMITTALS</p> <p>See Appendix "A" for submittals requirements.</p> <p>PART 2. PRODUCTS</p> <p>2.01 MANUFACTURERS</p> <p>Subject to compliance with requirements of this Section, provide MC cable, boxes, splicing, terminating and arcproofing materials of manufacturers as shown on the Contract Drawings.</p>				
	PAYMENT TERMS				
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	<p>2.02 WIRES AND CABLES</p> <p>A. General</p> <p>1. This written specification relates to the following cables: a. A multi-conductor MC cable comprising five (5) insulated solid or stranded conductors No. 12 AWG. b. A multi-conductor MC cable comprising five (5) stranded insulated conductors No. 6 AWG.</p> <p>2. Locations, types, sizes and numbers of wires and cables are shown on the Contract Drawings. Where not indicated, provide proper wire and cable selection to comply with this section and NFPA 70 Standards.</p> <p>3. Unless otherwise shown on the Contract Drawings, solid conductors shall be soft or annealed copper, conforming to ASTM B 33 (tinned), ASTM B 189 (lead-coated or lead-alloy coated), or ASTM B 3 (uncoated). Unless otherwise specified in this Section or unless otherwise shown on the Contract Drawings, stranded copper conductors shall be concentric stranding conforming to ASTM B 8.</p> <p>4. The performance characteristics for the MC cables which shall include stringent flame retardency, low smoke, low toxicity, zero halogen and good circuit integrity during a fire are required. a. Wires shall pass the flame propagatory criteria according to the test methods of VW-1 and UL 1685. b. The halogen content of both the wire and cable insulation and cable jacket(s) shall not exceed 0.2 percent according to</p>				
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	the test method of MIL-C-24643. The Authority classifies 0.2 percent or less halogen content as "non-halogen". c. The toxicity index of both the wire and cable insulation and cable jacket(s) shall not exceed 2.0 according to the test method of NES 713. d. The acid gas content of both wire and cable insulation and cable jacket(s) shall not exceed a maximum of 2.0 percent according to the test method of MIL-C-24643. e. The wire and cable insulation materials shall pass the smoke generation test in accordance with ASTM E 662. Wire and cable insulation when tested on a specimen of 80 mils thick slab shall not exceed the following values: Flaming Avg. Ds (4 minutes) 100 Flaming Avg. Dm (20 Minutes) 200 Non-Flaming Avg. Ds (4 minutes) 100 Non-Flaming Avg. Dm (20 minutes) 350 f. The cable jacket materials shall pass the smoke generation test in accordance with ASTM E 662. Wire and cable jacket when tested on a specimen of 80 mils thick slab shall not exceed the following values: Flaming Avg. Ds (4 minutes) 50 Flaming Avg. Dm (20 minutes) 150 Non-Flaming Avg. Ds (4 minutes) 50 Non-Flaming Avg. Dm (20 minutes) 250 g. Circuit Integrity: All cables shall pass the 1 hour fire rated test as outlined in UL Standard 2196, be classified as an Electrical Circuit Protective System (FHIT), and listed as System No. 17 in the UL Building				
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	<p>materials Directory. The qualification shall be listed in the UL Fire Resistive Directory.</p> <p>h. Flame Resistance: The cables shall comply with the vertical tray flame test as outlined in UL Standard 1581, the FT-4 Flame Test per CSA Standard 22.2 No. 03 and the IEEE 1202.</p> <p>B. MC Cable assembly:</p> <p>a. Wire and cable insulation: all conductors are insulated with a thermoset ceramifiable silicone layer with its thickness and tolerance in accordance with UL Standard No. 44.</p> <p>b. Conductor Assembly: insulated conductors shall be cabled in accordance with UL Standard 1569. Fillers or binder tape shall not be allowed.</p> <p>c. Inner Jacket: the cabled core shall be covered with a thermoset ceramifiable silicone jacketing material. Thickness in accordance with UL Standard No. 1569.</p> <p>d. Overall Cable Metallic Sheath: a minimum 25mil impervious continuously welded and corrugated copper sheath shall be applied over the jacketed core. The armor sheath capacity shall meet or exceed the UL requirements for equipment ground sizing.</p> <p>e. Outer Jacket: A LSZH polyolefin, low smoke, zero halogen jacket shall be applied over the copper sheath. Jacket properties for LSZH polyolefin shall be per UL Standard 1569.</p> <p>C. Color-Coding for Power and Lighting Conductors</p>		
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	<p>a. Insulation or covering of wires and cables shall be factory color-coded by the use of colored compounds or coatings. The color-code shall be followed consistently throughout the performance of the Work.</p> <p>b. Upon written request of the Contractor, the Engineer may permit the use of the following methods in lieu of the wire or cable manufacturer's color-coding, when limited quantities of wire and cable are involved, for sizes #8 AWG and larger.</p> <p>(1) For dry locations only, spiral application of 3/4 inch wide, colored pressure sensitive plastic tape, half lapped for a distance of not less than six inches may be used. To prevent unwinding, the last two wraps of tape shall be applied with no tension.</p> <p>(2) For wet or dry locations, application of three, 3/16 inch wide, colored, fungus-inert, self-extinguishing, self-locking, nylon cable ties spaced 3 inches apart may be used. The ties shall be snugly applied with a special tool or pliers, and any excess removed.</p> <p>(3) Each wire and cable shall be color-coded at all terminal points, in all manholes, boxes, or other similar enclosures.</p> <p>(4) Color markings shall be applied so as not to obliterate the manufacturer's identification markings.</p> <p>c. Color code chart shall be as follows:</p> <p style="margin-left: 20px;">Conductor 480Y/277V Phase A Brown Phase B Orange</p>		
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	Phase C Yellow Neutral Gray Ground Green D. Cable Tags 1. Dry Locations a. Fiberglass tags, 1/16 inch thick and 3/4 inch wide, indented with letters and numbers 5/16 inch high, with #14 AWG copper or nylon, weather-resistant cable ties. b. Lighting branch circuit wiring may be identified with "Quikables" manufactured by W. H. Brady Company, or approved equal. 2. Wet Locations Stainless steel metal tags, No. 28 gauge and 3/4 inch wide, embossed with letters and numbers 5/16 inch high, with #14 AWG copper or nylon, weather-resistant cable ties, or stainless steel cable ties. 2.03 BOXES AND ENCLOSURES 1. All materials for making connectors and boxes shall be 1 hour Fire Rated and approved for Emergency and Life Safety applications. 2. The boxes and enclosures shall protect against dust, dirt, and oil. 3. Shall be made of 304 Stainless Steel #14 Gauge. 4. Listed as NEMA 4X.				
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	5. Have a watertight Urethane gasket. 6. Shall have a lift off cover with captive screws or a hinged cover. 7. All boxes and enclosures shall have a grounding stud inside the box and cover. 8. Shall pass UL 2196 for a minimum of 1 hour (including Hose Stream). Spliced circuits must be maintained during and after the test. 2.04 CONNECTORS AND SPLICING A. Connectors 1. Connectors shall be designed for Transit applications where they are subject to high vibration, high pressure hosing, and general wet conditions. 2. Shall be made from 303 Stainless Steel. 3. Maintain direct continuous contact between the body of the connector and the armor of the cable for more than 2 revolutions. 4. Only the body of the connector in contact with the cable armor. No components shall connect the body of the connector to the cable armor (i.e. springs, screws, plates, etc). 5. One piece connector body and cable securing mechanism. The scroll or piece that attaches to the cable should be inseparable from the connector body. 6. Connector must pass the UL 2196 Flame Test for 1 Hour (including Hose Stream). Mechanical retention between the				
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	<p>connector body and mechanical cable securing mechanism, must be made and maintained during and after the test.</p> <p>7. Stainless Steel Connectors and Grounding Earth-tag shall be UL Listed.</p> <p>8. All connectors shall be provided with two (2) lock nuts.</p> <p>B. Splicing</p> <p>1. All splicing, terminating and arcproofing materials shall be compatible so that no one material will adversely affect the physical or electrical properties of any other, or of the wire or cable itself.</p> <p>2. All materials for making splices and terminations shall be specifically designed for use with the type of wire or cable, insulation and installation and operating conditions of the specific application.</p> <p>3. All wires, cables, splices and terminations, for which there are established UL standards, shall bear the UL label.</p> <p>2.05 SHOP TESTS</p> <p>1. For quantities as shown on the Contract Drawings, regular dielectric-withstand and insulation-resistance in water tests for wires and cables shall be performed in accordance with UL44.</p> <p>2. Flame tests for wires and cables shall be performed in accordance with IEEE 383.</p> <p>3. The test results shall be certified for each reel/coil/box of wire or cable.</p>				
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	<p>4. Factory inspection and witnessing of tests by the Engineer shall be required for all wires and cables furnished under this Contract. The Engineer reserves the right to require additional testing, or to waive factory inspection or witnessing of tests. The Contractor shall notify the Engineer 14 days in advance of the scheduling of such factory tests.</p> <p style="text-align: center;">END OF SECTION</p> <p style="text-align: center;">SECTION 16121 WIRE, CABLES, SPLICES, TERMINATIONS (600 VOLTS OR LESS)</p> <p style="text-align: center;">APPENDIX "A"</p> <p style="text-align: center;">SUBMITTALS</p> <p>A. Submit Catalog Cuts for the following in accordance with the requirements of "Shop Drawings, Catalog Cuts and Samples" of Division 1 - GENERAL PROVISIONS:</p> <ol style="list-style-type: none"> 1. Wires and cables for each type and size; 2. Splice kit materials. 3. Connectors. 4. All boxes and fittings. <p>B. Submit certified shop test reports for wires and cables.</p> <p style="text-align: center;">END OF APPENDIX "A"</p> <p>=====</p>				
	<p style="text-align: center;">PLEASE QUOTE FULLY DELIVERED PRICES</p>	<p style="text-align: center;">PAYMENT TERMS</p>	<p style="text-align: center;">Total Delivered Price</p>		

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
 Firm Name _____
 Telephone number _____ Date _____
 Fax Number _____
 Federal Taxpayer ID _____

Bidder
Must
Sign
In
Two
Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed _____ Date _____
 Firm Name _____



REQUEST FOR QUOTATION

Bid Due Date
12/03/2013

Quantity	Description	Unit Price		Total	
<p>PLEASE QUOTE FULLY DELIVERED PRICES</p>		<p>PAYMENT TERMS</p>		<p>Total Delivered Price</p>	

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REQUEST FOR QUOTATION

Bid Due Date
12/03/2013

Quantity	Description	Unit Price		Total
	<p>This is a Formal Bid Invitation Mail Sealed Bids to:</p> <p>The Port Authority of NY & NJ Attn: Bid Custodian Procurement Department 2 Montgomery Street, 3rd Floor Jersey City, NJ 07302</p> <p>by the date and time listed above, where it will be publicly opened and read.</p> <p>Bids are only accepted Monday through Friday, excluding Port Authority holidays, between the hours of 8 A.M. & 5 P.M., via regular mail, express delivery service or hand delivery.</p> <p>If you do not use or have an envelope provided, you must clearly mark the outside envelope/package with 'BID ENCLOSED' and show the company name, address, as well as Bid number and Due date as stated on this bid document.</p> <p>A valid photo id is required to gain access into the building, to attend the bid opening or hand deliver a bid.</p>			
1 LOT	<p>Fire Rated Cables, connectors & accessor</p>			
<p>PLEASE QUOTE FULLY DELIVERED PRICES</p>		<p>PAYMENT TERMS</p>	<p>Total Delivered Price</p>	

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TERMS AND CONDITIONS

1. The Port Authority (PA) reserves the right to request information relating to seller's responsibility, experience and capability to perform the work.
2. Unless otherwise provided, complete shipment of all items must be in one delivery FOB delivery point. Payment will not be made on partial deliveries unless authorized in advance by the party to be charged and the discount, if any, will be taken on the total order.
3. PA payment terms are net 30 days. Cash discounts for prompt payment of invoices may be taken but will not be considered in determining award, except in the case of tie bids.
4. Separate unit and total FOB delivered prices must be shown.
5. Sales to the PA and to PATH are currently exempt from New York and New Jersey State and local taxes and generally from federal taxation. The seller certifies that there are no federal, state, municipal or any other taxes included in the prices shown hereon.
6. The PA shall have the absolute right to reject any or all proposals or to accept any proposal in whole or part and to waive defects in proposals.
7. Unless the phrase "no substitute" is indicated, bidder may offer alternate manufacturer / brands, which shall be subject to Port Authority approval. Please indicate details of product being offered with bid.
8. Acceptance of seller's offer will be only by Purchase Order Form signed by the PA. No change shall be made in the agreement except in writing.
9. If the seller fails to perform in accordance with the terms of this purchase order, the PA may obtain the goods or services from another contractor and charge the seller the difference in price, if any, a reletting cost of \$100, plus any other damages to the PA.
10. Upon request, sellers are encouraged to extend the terms and conditions of any terms agreement with the PA to other government and quasi-government entities by separate agreement.
11. By signing this quotation or bid, the seller certifies to all statements on Form PA 3764A regarding non-collusive bidding; compliance with the PA Code of Ethics; and the existence of investigations, indictments, convictions, suspensions, terminations, debarments and other stated occurrences to assist the PA in determining whether there are integrity issues which would prevent award of the contract to the seller. The PA has adopted a policy set forth in full on PA 3764A, that it will honor a determination by an agency of the State of New York or New Jersey that a bidder is not eligible to bid on or be awarded public contracts because the bidder has been determined to have engaged in illegal or dishonest conduct or to have violated prevailing wage legislation. The Terms and Conditions of PA 3764A apply to this order. A copy can be obtained by calling (201) 395-3405 or at <http://www.panynj.gov/business-opportunities/become-vendor.html>
12. The vendor may subcontract the services or use a supplier for the furnishing of materials required hereunder to such persons or entities as the Manager, Purchasing Services may from time to time expressly approve in writing. All further subcontracting shall also be subject to such approval.
13. The successful bidder (vendor) shall not issue nor permit to be issued any press release, advertisement, or literature of any kind, which refers to the Port Authority or that goods will be, are being or have been provided to it and/or that services will be, are being or have been performed for it in connection with this Agreement, unless the vendor first obtains the written approval of the Port Authority. Such approval may be withheld if for any reason the Port Authority believes that the publication of such information would be harmful to the public interest or is in any way undesirable.
14. Neither the Commissioners of the Port Authority, nor Directors of PATH, nor any of them, nor any officer, agent or employee thereof, shall be charged personally by the Contractor with any liability, or held personally liable to the Contractor under any term or provision of this Agreement, or because of its execution or attempted execution, or because of any breach, or attempted or alleged breach, thereof.