



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFO NUMBER
CABLE11

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JO ANN ADKINS 304-558-8802

*709002526 304-344-2371
 GRAYBAR ELECTRIC COMPANY INC
 1010 YOUNG STREET

CHARLESTON WV 25301

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

VENDOR

SHIP TO

ALTERNATE BID #1

DATE PRINTED 09/07/2010	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
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BID OPENING DATE: 09/23/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUEST FOR QUOTATION						
<p>THE PURCHASING DIVISION IS SOLICITING QUOTATIONS FOR THE OFFICE OF TECHNOLOGY DIVISION OF THE DEPARTMENT OF ADMINISTRATION TO ESTABLISH A BLANKET OPEN-END STATEWIDE CONTRACT TO PROVIDE COMPUTER DATA CABLE (COPPER/FIBER) AND FITTINGS FOR ALL WEST VIRGINIA STATE AGENCIES AND POLITICAL SUBDIVISIONS.</p> <p>***** INQUIRIES</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON FRIDAY, 09/17/2010. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>JO ANN ADKINS DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25526 FAX: 304.558.4115 E-MAIL: JO.A.ADKINS@WV.GOV</p> <p>*****</p> <p>ATTACHMENTS:</p> <p>1. SPECIFICATIONS "CABLE11" DATED 09/08/2010 2. CABLE11 PRICING PAGES</p>						

RECEIVED

2009 SEP 30 P 12:27

PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ken Hill</i>	TELEPHONE 304-344-2371	DATE 9-30-10
TITLE <i>Sales Rep</i>	FEIN 130794380001	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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ADDRESS CORRESPONDENCE TO ATTENTION OF
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VENDOR

*709002526 304-344-2371
 GRAYBAR ELECTRIC COMPANY INC
 1010 YOUNG STREET
 CHARLESTON WV 25301

SHIP TO

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/07/2010				

BID OPENING DATE: 09/23/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		285-10		
3. PURCHASING AFFIDAVIT 4. RESIDENT VENDOR PREFERENCE CABLE ACCESSORIES, ELECTRIC EXHIBIT 3 LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kearney</i>	TELEPHONE 304-344-2371	DATE 9-20-10
TITLE Sales Rep	FBN 130794380551	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kari Huff</i>		TELEPHONE <i>304-344-2371</i>	DATE <i>9-30-10</i>
TITLE <i>Sales Rep</i>	FEIN <i>130794380001</i>	ADDRESS CHANGES TO BE NOTED ABOVE	

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<p>ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p>REV 07/16/2007</p> <p>EXHIBIT 10</p> <p style="text-align: right;">REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ken Hoff</i>	TELEPHONE 304-344-2371	DATE 9-30-10
TITLE <i>Sales Rep</i>	FEIN 130794380551	ADDRESS CHANGES TO BE NOTED ABOVE

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 304-558-8802**

***709002526 304-344-2371**
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	NO. 2					
	NO. 3					
	NO. 4					
	NO. 5					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;"> <i>Kari Hupp</i> SIGNATURE <i>GRAYBAR ELECTRIC</i> COMPANY <i>9-20-10</i> DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kari Hupp</i>	TELEPHONE <i>304-344-2371</i>	DATE <i>9-20-10</i>
TITLE <i>Sales Rep</i>	FEIN <i>130794380001</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: FILE 42-----</p> <p>RFQ. NO.: CABLE11-----</p> <p>BID OPENING DATE: 09/23/2010-</p> <p>BID OPENING TIME: 1:30PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>----- 304-344-0324 -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kevin Huff</i>	TELEPHONE <i>304-344-2371</i>	DATE <i>9-30-10</i>
TITLE <i>Sales Rep</i>	FEIN <i>130794380551</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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PO BOX

***709002526 304-344-2371**
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<i>Kevin Hypes</i>						
***** THIS IS THE END OF RFQ CABLE11 ***** TOTAL:						<u>\$918,252.22</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kevin Hypes</i>	TELEPHONE 304-344-2371	DATE 9-30-10
TITLE SALES REP	FEIN 138794380551	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

CABLE11
Specifications/Information

The Purchasing Division is soliciting quotations from qualified vendors for the Office of Technology Division of the Department of Administration to establish a blanket open-end statewide contract to provide computer data cable (copper/fiber) and fittings for all West Virginia State agencies and participating political subdivisions.

*****IMPORTANT – IMPORTANT – IMPORTANT*****

**WRITTEN QUESTIONS MUST BE RECEIVED NO LATER THAN CLOSE OF
BUSINESS ON FRIDAY, SEPTEMBER 17, 2010.**

Questions may be sent via fax, e-mail, USPS, or courier and must be sent to:

Jo Ann Adkins
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25311
304-747-5111 (Fax)
loadkins@wvadmin.gov (E-mail)

Only bid submission questions will be accepted after that date and time.

All terms and conditions in the written specifications which are absolute and the compliance with cannot be waived. Mandatory terms are indicated by the use of the terms *shall, will, must, maximum* and *minimum*.

Materials List/Pricing Pages

The pricing pages contain a list of all the materials to be covered by the contract. This list shows the estimated usage of materials that will be available through the contract. No future use of contract is guaranteed or implied. These pricing pages must be completed by each bidder. For the items that are presently used by various state agencies throughout the entire state, the specific part number is the suggested acceptable solution. A vendor should bid on all items listed on the attached pricing pages. Vendor must indicate brand name bid for all items.

The model/brand/specifications named herein establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor. Vendors intending to bid an alternative product must submit descriptive literature and samples. These samples must be received no later than five (5) days after the bid opening date. If bidder wishes to have samples

CABLE11
Specifications/Information

returned, they must include a pre-paid label or other information to have the items returned at the vendor's expense.

If bidding an "Equal To" other than the brand listed, bidders are required to supply literature with the cable specifications, demonstrating the product is in fact equal or greater in quality.

An electronic version of the pricing pages will be supplied to vendors after the pre-bid meeting. Bidders are requested to submit an electronic version of the excel document and return with bid. Additionally, bidders are also requested to include original printed document with the Purchasing Division original package. If any deviation exists between the electronic version and the printed version, the printed one submitted shall prevail.

Bidders should sign and complete the contract coordinator information at the end of the pricing pages.

Contract shall be a single award to the lowest-cost vendor with the most complete bid.

The Purchasing Division desires to enter into a fixed price contract with the successful vendor. The prices quoted in the vendor(s) quote will not be subject to any increase for the original contract term of one year. Price increase at renewal can be accepted or rejected by the Purchasing Division.

Terms and Conditions

I. Delivery

1. The cost per item (supplied by the vendor) must include delivery to the building dock and/or loading area designated by the ordering state agency.
2. All materials ordered in Charleston, or any destination point in between Charleston-Huntington, Charleston-Beckley, Charleston-Parkersburg, and or Charleston-Clarksburg by any other agency other than the Office of Technology, must be delivered within 5 business days after receipt of the order.
3. All materials ordered by the Office of Technology must be delivered to the Capitol Complex in the following timeframes after the receipt

CABLE11
Specifications/Information

of the order (the exact delivery location will be provided when the order is placed):

- a) If total for materials ordered is \$1,000 or below – delivery must be within two (2) business hours;
- b) If total for materials ordered is greater than \$1,000, but less than \$5,000 – delivery must be within two (2) business days;
- c) If total for materials ordered is greater than \$5,000 – delivery must be within five (5) business days.

4. If an ordering agency requests delivery of materials to another “inside” area of the building other than the dock and/or loading area, the vendor shall supply a cost (including an explanation of how this cost was calculated) on the pricing pages to complete this “inside” delivery. For example, if DNR orders a cabinet through the contract and they request and pay for “inside delivery” to their 8th floor closet, then the vendor/delivery company will be responsible for delivery of the cabinet to the 8th floor closet and not be permitted to simply deliver the cabinet to the building loading dock.

All pricing submitted shall be FOB: Destination. (Vendor pays shipping.)

II. Subcontracts /Joint Ventures

The vendor is solely responsible for all work performed under the contract and shall assume responsibility for all items offered to be delivered under the terms of this contract. The State will consider the vendor to be the sole point of contact with regard to all contractual matters.

III. Vendor Reporting

The vendor must provide a quarterly report of purchases to the Office of Technology, with a copy to Purchasing (jo.a.adkins@wv.gov), showing the following items:

1. Name of the ordering state agency;
2. Materials ordered; and
3. Total cost expended for that quarter.

The report shall be delivered to the Office of Technology and the Purchasing Division no later than the fifteenth day of the month following each quarter period. The vendor shall also provide Office of Technology and Purchasing an annual report with this same information, to be delivered at the end of each fiscal year. Failure to submit such reports may be grounds for contract termination.

CABLE11
Specifications/Information

Reports are to be sent to:

Marta Dean (MARTA.L.DEAN@WV.GOV)

Jo Ann Adkins (JO.A.ADKINS@WV.GOV)

V. Convenience Copy

Bidders are requested to include one (1) convenience hard copy and one (1) convenience CD that contain the information included on the hard copies of the entire bid (including pricing pages) to the Purchasing Division. This convenience copy is in addition to the original hard copy and electronic version of the pricing pages as requested by the Purchasing Division.

The successful bidder shall not substitute any other brand from those awarded, nor sell any additional items under their contract not specifically covered herein, without prior written permission of the Purchasing Division.

CABLE11

***The use of brand name or equal specifications is for the purpose of describing the minimum standard of quality, technical performance and installation characteristics required and are not intended to limit or restrict competition for these 17 items.

Alternate bids must meet or exceed those of the brand name or equal specifications and features listed. Vendor must indicate brand bid for all items. In order to receive full consideration, such alternate bids must be accompanied by sufficient descriptive literature and samples to clearly identify the offer and allow for a complete evaluation.

Vendors intending to bid an alternative product must submit descriptive literature and samples a minimum of five (5) business days following the RFQ opening date to allow the West Virginia Office of Technology time to make a determination of equality to the brand specified. Failure to provide descriptive literature and samples may result in the bid being rejected as non-responsive. If vendor wishes to have samples returned, they must include a pre-paid label or other information to have the items returned at the vendor's expense.

Samples & descriptive literature must be included for each of the following 17 products bid:

- Manufacturers category 5e cable specifications (Items 45 & 46)
- Manufacturers category 5e RJ45 snap-in connector (Item 47)
- Manufacturers category 5E cable specifications (Items 48 & 49)
- Manufacturers category 5E RJ45 snap-in connector (Item 50)
- Manufacturers category 5E 12-, 24-, 48-port copper patch panels (Items 72, 73, 74 & 75)
- Manufacturers category 6 cable specifications (Items 81 & 82)
- Manufacturers category 6 RJ45 snap-in connectors (Item 83)
- Manufacturers category 6 12-, 24-,48-port copper patch panels (Items 101,102,103,104)

Category 5e Plenum & Non-plenum Cable

REFERS TO ITEMS 45 & 46 ON PRICING SHEETS

Minimum specifications:

UNSHIELDED TWISTED PAIR CABLE TESTED TO 200 MHz AND ETL VERIFIED TO CATEGORY 5e. CAT.5e CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. CAT.5e CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. OUTER JACKET OF CAT.5e CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.5e NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.5e PLENUM CABLE MUST HAVE "CMP" PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE.

All plenum cable must be 4X4 plenum construction.

- **14 dB Minimum ACR @ 100 MHz** – Proven support for Gigabit Ethernet / 1000BASE-T / IEEE 802.3ab, ATM up to 155 Mbps, 100 Mbps Fast Ethernet / 100BASE-T / IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet / 10BASE-T / IEEE 802.3, 4 & 16 Mbps Token Ring / IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps.
- **4 dB Minimum** – Improvement in Near End Crosstalk vs. TIA/EIA-568-B Category 5.
- **ETL Verified to Category 5e.**
- **.45 ns/meter Maximum Skew** – Tightly controlled propagation delay.
- **Engineered for Future Applications** – Tested for all parameters specified...for 4 pair UTP in TIA/EIA-568-B.2, including PS-NEXT, Return Loss, ELFEXT and PS-ELFEXT.

Category 5e Modular Connectors

REFERS TO ITEM 47 ON PRICING SHEETS

Modular connector for Category 5e UTP structured cabling systems and uses include high megabit applications such as Gigabit Ethernet and 622 Mbps ATM. The Category 5e modular connector shall meet or exceed individual snap-in style, and provide compliance with TIA/EIA-568-B specifications. The connectors shall also be in compliance with all National Electrical Codes; compliant with FCC Part 68; UL listed; and independently UL Certified. In addition to Category 5e compliance, the connector shall have the ability to support high megabit and shared-sheath applications. All plastics used in construction of the connector bodies shall be fire-retardant with a UL flammability rating of 94V-0. Termination of all connectors shall be 110-type IDC with solder-plated phosphor bronze contacts. The connector shall provide a ledge directly adjacent to the 110 style termination against which the wires can be directly terminated and cut in one action by the installer. Connector wiring label shall provide installation color codes for T568B wiring schemes. The modular hardware shall fit all other installed telecommunications wallplates, outlets and field configurable patch panels and patch blocks. A selection of 13 colors must be available for the Cat.5e connector, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

STANDARDS COMPLIANCE

Category 5e connector must meet all applicable standards: UL Listed; complies with all TIA/EIA-568-B requirements; and meets FCC Part 68.

FEATURES

- Must be available in 13 different colors including ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond, and brown.
- Individual port configurability allows specification flexibility.
- Robust one-piece lead-frame design.
- Narrow connector allows high port density in a small area.
- Performance supports high megabit and shared-sheath applications.

PHYSICAL SPECIFICATIONS

Dimensions: .89"H x .635"W x 1.178"D

Materials: Connector body is high-impact, fire-retardant plastic rated UL 94V-0. Spring wire contacts are high-quality phosphor bronze, plated with 50 micro-inches of gold over 100 microinches of nickel for lowest contact resistance,

maximum life. Connector 110-style IDC contacts are solder-plated phosphor bronze.

Colors: selection of 13 colors must be made available, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond, and brown.

DESIGN SPECIFICATIONS

- For use in any Category 5e housing to support Category 5e UTP connectivity in surface mount, flush mount, or modular furniture outlets and field configurable patch panels and patch blocks.

- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.
- A selection of 13 colors must be available for the connector, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

INSTALLATION NOTES

- Must be designed for cable termination with a 110 punch down tool.
- Detailed installation instructions must be included in the standard pack.
- IDCs must be arranged to minimize untwisting.

Category 5E Plenum & Non-plenum Cable

REFERS TO ITEMS 48 & 49 ON PRICING SHEETS

Minimum specifications:

UNSHIELDED TWISTED PAIR CABLE TESTED TO 400 MHz AND ETL VERIFIED TO CATEGORY 5E. CATEGORY 5E CABLE EXCEEDS TIA/EIA 568-B.2 CAT.5e & ISO/IEC 11801 CAT.5E HORIZONTAL CABLE SPECS. THIS CAT.5E CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. CAT.5E CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. OUTER JACKET OF CAT.5E CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.5E NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.5E PLENUM CABLE MUST HAVE "CMP" PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE.

All plenum cable must be 4X4 plenum construction.

- **20 dB Minimum ACR @ 100 MHz** – Proven support for Gigabit Ethernet / 100BASE-T / IEEE 802.3ab, ATM up to 155 Mbps, 100 Mbps Fast Ethernet / 100BASE-T / IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet / 10BASE-T / IEEE 802.3, 4 & 16 Mbps Token Ring / IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps and 1.2 Gbps.
- **5 dB Minimum** – Improvement in Near End Crosstalk vs. standard Category 5e NEXT.
- **Meets Return Loss** – Category 5e Standard.
- **.25 ns/meter Maximum Skew** – Tightly controlled propagation delay.
- **Enhanced Performance Parameters** – All electrical characteristics proven to exceed TIA/EIA 568-B Category 5e requirements: Near End Crosstalk, Characteristic Impedance, Insertion Loss, and Delay Skew. Also exceeds TIA/EIA-568-B.2 Category 5e requirements: Power Sum NEXT, and Far End Crosstalk – ELFEXT and PS-ELFEXT.

Electrical Characteristics

STANDARDS:

EXCEEDS TIA/EIA-568-B.2 CAT 5e & ISO/IEC 11801:2002 CAT 5e HORIZONTAL CABLE

CONDUCTOR DCR: 8.9ohms/100m (27.1 _/Mft) MAX

DCR UNBALANCE: 3% MAX

MUTUAL CAPACITANCE: 46 pF/m (14 pF/ft) NOM

CAPACITANCE UNBALANCE PAIR/GROUND: 66 pF/100m (200 pF/Mft) MAX

CHARACTERISTIC IMPEDANCE: 100ohms 15% (1-400 MHz)

INPUT IMPEDANCE:

100 ohms15% (1-100 MHz)

100 ohms 22% (> 100-200 MHz)

PROPAGATION DELAY: $506 + 36/f$ ns/100m MAX

DELTA DELAY (SKEW): 25 ns/100m MAX

NOMINAL VELOCITY OF PROPAGATION (NVP): PLENUM 72%; NON-PLENUM 68%

Category 5E Modular Connectors

REFERS TO ITEM 50 ON PRICING SHEETS

The Category 5E connector shall meet or exceed the requirements for Category 5e described in TIA/EIA-568-B as well as the Class E requirements described in ISO/IEC 11801. The modular connector shall be individual snap-in style. The connector must include unique pair separation towers allowing for quicker and easier terminations. The connector shall be 180° configuration such that the punch field is in the back, allowing for rear termination.

Rear termination field shall include pointed pair separation towers to promote easier installation.

All plastics used in construction of the connector bodies must be fire retardant with a UL flammability rating of 94V-0. Termination of all connectors shall be 110-type Insulation displacement connectors (IDC). The connector shall provide a cutting ledge directly adjacent to the 110-style IDC's against which the wires can be directly terminated and cut in one action.

Connector wiring shall be universal and wiring label shall provide installation color codes for T568B wiring schemes. A selection of 13 colors must be available for the Cat.5E connector, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

STANDARDS COMPLIANCE

The Category 5E modular connector must meet or exceed the Category 5E requirements for channel/component level performance per TIA/EIA-568-B and ISO/IEC 11801. Components certified per cULus and ACA requirements.

PHYSICAL SPECIFICATIONS

Dimensions: .885"H x .635"W x 1.211"D

Materials: Connector body is high-impact, fire-retardant plastic rated UL 94V-0. Spring wire contacts are high quality copper-based alloy, plated with 50 micro-inches of gold over 100 micro-inches of nickel for lowest electrical contact resistance and maximum life.

Connector must include selection of 13 colors, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond, and brown.

FEATURES

- Universal T568B wiring labels for 110-style IDC terminations.
- Must be available in 13 different TIA/EIA 606-A compatible colors.
- 180° configuration allowing for rear termination.
- Unique pair separation towers designed to minimize untwisting and to speed installation.

DESIGN SPECIFICATIONS

- For use in any Category 5e housing to support Category 5E UTP connectivity in surface mount, flush mount, or modular furniture outlets and field configurable patch panels.
- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.
- Connector must be available in 13 colors, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

INSTALLATION NOTES

- Must be designed for cable termination with a 110 punch down tool.
- Detailed installation instructions must be included in the standard pack.
- IDCs must be arranged to minimize untwisting.

Category 5E Patch Panels**REFERS TO ITEMS 72, 73, 74 & 75 ON PRICING SHEETS**

The Category 5E patch panel shall meet or exceed the requirements for Category 5e described in TIA/EIA-568-B as well as the Class E requirements described in ISO/IEC 11801-B. The panels shall feature T568B wiring configurations, white IDC 110-punchdown modules, mounting standoffs for cable management bars, color-coded front window labeling, and a termination standoff for patch panel earthing/grounding. The panels shall have universal T568B wiring card for terminations. The panels shall be made of 16 gauge steel, and shall have a black painted finish with white silk-screening. The plastic elements shall be fire-retardant with a UL flammability rating of 94V-0. The panel shall be offered in 12-, 24-, 48-port configurations as well as 12-port configuration for wall mount applications. The patch panel shall be configured with six port modules. The 110 termination on the rear of the panel shall follow normal

installation color sequence (blue, orange, green, brown) from left to right; and must be designed for use in high megabit applications such as Gigabit Ethernet.

APPLICATION

Category 5e patch panels must be designed for use on 19" standard racks and cabinets and must allow for standard 110 terminations on the rear of the panel which follows the normal installation color sequence (blue, orange, green, brown) from left to right; and must be designed for use in high megabit applications such as Gigabit Ethernet.

FEATURES

- Universal T568B wiring cards for 110 style IDC terminations.
- Color-coded front labeling for easy port identification
- Centralized labeling available on 48 port panel.
- Grounding standoff for optional earthing/grounding.

STANDARDS COMPLIANCE

Meets all applicable standards: UL Listed; meets or exceeds all TIA/EIA-568-B for Category 5e requirements; and meets FCC Part 68.

PHYSICAL SPECIFICATIONS

Dimensions: 12-, 24-Port - 1.75"H x 19"W x 1.31"D

48 Port - 3.5"H x 19"W x 1.31"D

12-port Patch Block – 10.0"H x 2.3"W x 1.474"D

Capacity: 12-, 24-, 48-port and 12-Port Patch Block

Materials: 16 gauge steel, painted black, PCB and plastic components are rated UL 94V-0

DESIGN SPECIFICATIONS

- Color-coded front window labeling for easy port identification.
- Centralized labeling (available on 48-port), promotes greater visibility of labels when patch cords are routed into horizontal cable management above and below the patch panel.
- Mounts on 19" standard equipment racks.
- Panel offered in 12-, 24-, 48-port configurations and a 12-Port Patch Block for wall-mount applications.
- Connector modules are grouped in sets of six.

Category 6 Plenum & Non-plenum Cable

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

DESCRIPTION & MINIMUM SPECIFICATIONS:

ENHANCED UNSHIELDED TWISTED PAIR (UTP) CAT.6 CABLE FOR USE IN HORIZONTAL CABLING SYSTEMS PER TIA/EIA 568-B AND ISO/IEC 11801 CLASS E. TESTED TO 650 MHz AND ETL VERIFIED TO TIA/EIA-568-B.2-1 CAT.6.

THE CABLE EXCEEDS TIA/EIA 568-B.2-1 AND ISO/IEC 11801 CATEGORY 6 ELECTRICAL CHARACTERISTICS. THE CABLE CONSISTS OF #23 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A CORE SEPARATOR (SPINAL SPACER) AND A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. OUTER JACKET OF CAT.6 CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.6 CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. CAT.6 NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.6 PLENUM CABLE MUST HAVE "CMP" PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE. **All plenum cable must be 4X4 plenum construction.**

SUPPORTED APPLICATIONS

IEEE 802.3 10BASE-T (ETHERNET), 100BASE-T (FAST ETHERNET), AND 1000BASE-T (GIGABIT ETHERNET), IEEE 802.3af POWER OVER ETHERNET FOR VoIP, ANSI X3.263 FDDI TP- PMD, IEEE 802.5 4 AND 16 Mbps TOKEN RING, ATM UP TO 155 Mbps, 550 MHz BROADBAND VIDEO AND STANDARDS UNDER DEVELOPMENT SUCH AS ATM AT 622 Mbps, AND 1.2 & 2.4 Gbps.

INDUSTRY APPROVALS

STANDARDS: EXCEEDS TIA/EIA 568-B.2-1 CAT 6 & ISO/IEC 11801:2002 CAT 6 HORIZONTAL CABLE

LISTINGS: PL: UL/cUL TYPE CMP NP: UL/cUL TYPE CMR

PERFORMANCE: ETL VERIFIED TO TIA/EIA 568-B.2-1 CAT 6

CONSTRUCTION

PRIMARIES: CONDUCTOR: 23 AWG (.6 mm) SOLID BARE COPPER

PL: DUAL INSULATION, FEP ON ALL 4 PAIRS

NP: THERMOPLASTIC POLYOLEFIN

PAIR ASSEMBLY: 2 PRIMARIES TWISTED IN VARIED LAYS

CABLE ASSEMBLY: 4 PAIRS CABLED TOGETHER WITH A FLEXWEB CORE SEPARATOR

JACKET: PL: NO LEAD PLENUM RATED THERMOPLASTIC

NP: NO LEAD FLAME RETARDANT THERMOPLASTIC

NOMINAL CABLE OD: PL: .228" (5.79 mm)

NP: .225" (5.7 mm)

PHYSICAL CHARACTERISTICS

CABLE WEIGHT: PL: 33 lbs/1000ft (49 kg/km) NP: 30 lbs/1000ft (45 kg/km)

BENDING RADIUS: PL: 1" (25 mm) MIN (4 x CABLE OD)

PULLING TENSION: 25 lbf (110 N) MAX

OPERATING TEMP.: -20°C to +60°C (-4°F to +140°F)

STORAGE TEMP.: -20°C to +75°C (-4°F to +167°F)

INSTALLATION : 0°C to +60°C (+32°F to +140°F)

Category 6 Plenum & Non-plenum Cable (con't)

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

ELECTRICAL CHARACTERISTICS**STANDARDS:**

EXCEEDS TIA/EIA-568-B.2-1 CAT 6, ISO/IEC 11801:2002 CAT 6 & IEC 61156-5 CAT 6 HORIZONTAL CABLE

CONDUCTOR DCR: 7.8ohms/100m (23.8ohms/Mft) MAX**DCR UNBALANCE:** 3% MAX**MUTUAL CAPACITANCE:** 46 pF/m (14 pF/ft) NOM**CAPACITANCE UNBALANCE PAIR/ GROUND:** 66 pF/100m (200 pF/Mft) MAX**CHARACTERISTIC IMPEDANCE:** 100 ± 15% (1-350 MHz)**INPUT IMPEDANCE:** 100 ohms ± 15% (1-100 MHz)

100 ohms ± 18% (>100-200 MHz)

100 ohms ± 22% (>200-350 MHz)

RETURN LOSS (RL): 20 + 7 log₁₀(f) dB MIN (1-10 MHz)

27 dB MIN (>10-20 MHz)

27 - 5.58 log₁₀(f /20) dB MIN (>20 MHz)**INSERTION LOSS (ATTENUATION):** $1.795 \sqrt{f} + .017 f + \frac{20}{\sqrt{f}}$ dB/100m MAX**NEAR END CROSSTALK (NEXT):** 48.3 - 15 log₁₀(f /100) dB/100m MIN**POWER SUM NEAR END CROSSTALK (PS-NEXT):** 46.3 - 15 log₁₀(f /100) dB/100m MIN**EQUAL LEVEL FAR END CROSSTALK (ELFEXT):** 30 - 20 log₁₀(f /100) dB/100m MIN**POWER SUM EQUAL LEVEL FAR END CROSSTALK (PS-ELFEXT):** 28 - 20 log₁₀(f /100) dB/100m MIN**PROPAGATION DELAY:** 534 + 36 / √f ns/100m MAX**DELTA DELAY (SKEW):** 25 ns/100m MAXIMUM SKEW – tightly controlled propagation delay.**NOMINAL VELOCITY OF PROPAGATION (NVP):** 72% PLENUM

68% NON-PLENUM

WHERE f = FREQUENCY IN MHz from .772 to 350 MHz, except for ELFEXT and PS-ELFEXT from 1 to 350 MHz.

Category 6 Modular Connectors**REFERS TO ITEM 83 ON PRICING SHEETS**

The Category 6 modular connector shall meet or exceed the requirements for channel and component-level performance described in TIA/EIA-568-B.2-1 Category 6 standards. The modular connector shall be individual snap-in style. The connectors shall also be in compliance with all National Electrical Codes; compliant with FCC Part 68; UL listed; and independently verified. In addition to Category 6 compliance, the connector shall have the ability to support high megabit and shared-sheath applications. All plastics used in construction of the connector bodies must be fire-retardant with a UL flammability rating of 94V-0. The Category 6 connector includes unique pair separation towers allowing for quicker and easier terminations. The connector is configured in a 180° configuration such that the punch field is in the back, allowing for rear termination. Termination of all connectors shall be 110-type insulation displacement connectors (IDC). The connector shall provide a ledge directly adjacent to the 110-style termination against which the wires can be directly terminated and cut in one action by the installation craftsman. Connector wiring is universal and will accommodate installation color codes for T568B wiring schemes. The termination field shall be in the rear for easy access. The modular connector shall fit all other installed telecommunications wall plates, outlets and field-configurable patch panels and patch blocks. A selection of 13 colors must be available for the Cat.6 connector, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

STANDARDS COMPLIANCE

Category 6 modular connectors must meet or exceed the requirements for channel and component-level performance for TIA/EIA Category 6, cULus Listed, NOM and ACA.

PHYSICAL SPECIFICATIONS

Dimensions: .901"H x .575"W x 1.246"D

Materials: Connector body is high-impact, fire-retardant plastic rated UL 94V-0. Spring wire contacts are high quality copper-based alloy, plated with 50 micro-inches of gold over 100 micro inches of nickel for lowest contact resistance, maximum life. Must include full selection of TIA/EIA-606 compatible colors, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond, and brown.

DESIGN SPECIFICATIONS

- For use in any Category 6 housing to support Category 6 UTP connectivity in surface mount, flush mount, or modular furniture outlets and field configurable patch panels.
- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.
- Connector must be available in 13 colors, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

INSTALLATION NOTES

- Must be designed for cable termination with a 110 punch down tool.
- Detailed installation instructions must be included in the standard pack.
- IDCs must be arranged to minimize untwisting.

Category 6 Patch Panels

REFERS TO ITEMS 101, 102, 103, & 104 ON PRICING SHEETS

The Category 6 patch panel shall meet or exceed the requirements for Category 6 described in TIA/EIA-568-B.2-1 as well as the Class E requirements described in ISO/IEC 11801-B. The panels shall feature T568B wiring configurations, white IDC 110-punchdown modules, mounting standoffs for cable management bars, color-coded front window labeling, and a termination standoff for patch panel earthing/grounding. The panels shall have universal T568B wiring card for terminations. The panels shall be made of 16 gauge steel, and shall have a black painted finish with white silk-screening. The plastic elements shall be fire-retardant with a UL flammability rating of 94V-0. The panel shall be offered in 12-, 24, 48-port configurations as well as an 89D 12-port configuration. The patch panel shall be configured with six port modules. The 110 termination on the rear of the panel must follow normal installation color sequence (blue, orange, green, brown) from left to right; and must be designed for use in high megabit applications such as Gigabit Ethernet.

APPLICATION

Category 6 patch panels must be designed for use on 19" standard racks and cabinets; must allow for standard 110 terminations on the rear of the panel which follows the normal installation color sequence (blue, orange, green, brown) from left to right; and must be designed for use in high megabit applications such as Gigabit Ethernet.

FEATURES

- Universal T568B wiring cards for 110 style IDC terminations.
- Color-coded front labeling for easy port identification (TIA-606-A compliant).
- Grounding standoff for optional earthing/grounding.

STANDARDS COMPLIANCE

Category 6 patch panels must meet or exceed the Category 6/Class E requirements for channel/component level performance per TIA/EIA-568-B.2-1 and ISO/IEC 11801-B. Components certified per cULus, NOM and ACA requirements.

PHYSICAL SPECIFICATIONS

Dimensions: 12-, 24-Port - 1.725"H x 19"W x 1.474"D

48 Port - 3.475"H x 19"W x 1.474"D

12-port Patch Block – 10.0"H x 2.3"W x 1.474"D

Capacity: 12-, 24-, 48-port and 12-Port Patch Block

Materials: 16 gauge steel, painted black, PCB and plastic components are rated UL 94V-0

DESIGN SPECIFICATIONS

- Color coded front window labeling for easy port identification.
- Mounts on 19" equipment racks.
- Panel offered in 12-, 24-, 48-Port configurations and Universal 12-port U89 Block for wall mount applications.
- Connector modules are in groups of six.
- Includes rear cable management bars.



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
CABLE11

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JO ANN ADKINS
304-558-8802

VENDOR

*709002526 304-344-2371
 GRAYBAR ELECTRIC COMPANY INC
 1010 YOUNG STREET

 CHARLESTON WV 25301

SHIP TO

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/22/2010				

BID OPENING DATE: 09/30/2010 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
1. BID OPENING DATE HAS BEEN MOVED TO 09/30/2010.						
2. QUESTIONS AND ANSWERS ATTACHED.						
***** END OF ADDENDUM NO. 1 *****						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ken Hill</i>	TELEPHONE <i>304-344-2371</i>	DATE <i>9-30-10</i>
TITLE <i>Sales Rep</i>	FEIN <i>130794380001</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
CABLE11

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
JO ANN ADKINS
304-558-8802

VENDOR

*709002526 304-344-2371
 GRAYBAR ELECTRIC COMPANY INC
 1010 YOUNG STREET
 CHARLESTON WV 25301

SHIP TO

ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/22/2010				

BID OPENING DATE: 09/30/2010 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		285-10		
CABLE ACCESSORIES, ELECTRIC						
***** THIS IS THE END OF RFQ CABLE11 ***** TOTAL:						<u>\$918,252.22</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kari Hop</i>	TELEPHONE 304-344-2371	DATE 9-30-10
TITLE <i>SMSS Rep</i>	FEIN 130794380001	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

CABLE10

Questions and Answers

1. Can the bid opening be extended? There is not enough adequate time for vendors to prepare an accurate bid with less than 4 working days between the last day for questions and the bid opening. *Bid opening date has been extended 09/30/2010*

2. Can the one year fixed price be reduced to 90 days? With the current unstable copper and metal prices, it is unfair to expect vendors and manufactures to hold prices firm for this length of time.

PRICE ADJUSTMENT PROVISIONS

The State of West Virginia will consider bids that contains provisions for price adjustments prior to the original expiration of the contract, provided that such price adjustment covers both upward and downward movement of the commodity price, and that adjustment is based on the "pass through" increase or decrease of raw materials and/or labor, which make up all or a substantial part of a product. Adjustments are to be based upon an actual dollar figure, not a percentage. All price adjustment requests must be substantiated in a manner acceptable to the Director of Purchasing, E.G. governmental bench marks, general market increase, published price lists. Such requests for and increase should be received in writing by the Director of Purchasing at least 30 days in advance of the effective date of the increase. Any time the vendor requests a price adjustment; the Purchasing Division may either accept the price adjustment and amend the contract accordingly or reject the adjustment in its entirety and cancel the contract.

Preferred Terms:

X It is preferred that the prices on this contract are firm for Life of the Contract, as indicated in the Life of Contract clause contained herein, not to exceed one (1) year. Graybar reads and understands. Please see attached exception letter for qualifications.

If the vendor cannot guarantee a firm price for the Life of Contract, the vendor must indicate one of the paragraphs listed. Failure to qualify the preferred terms will bind the vendor to a firm price for the Life of the Contract.

Alternative Term:

() The prices on this contract will remain firm for 180 days after the effective date of the contract. Prices will remain firm after each price adjustment for a minimum of 180 days.

3. Can the State of WV provide a detailed usage report that includes ordering agency, manufacture, quantities, part numbers and descriptions of all items purchased from the

CABLE07 contract? If this is not readily available can the bid opening bid delayed until it is available? **Not available**

4. Who is the manufacture of items 42, 43 and 44? I do not recognize these as a manufactures part number. ***Superior Essex***

5. Why did the State of WV replace all the Signamax items that were on the CABLE10 rfq with Multilink on CABLE11? Does the State of WV not currently purchase and have these items installed at statewide facilities? ***Multilink enclosures are the preferred item. The 1U Signamax enclosure has only a clear piece of plastic on top, while the Multilink enclosure is steel and aluminum with a polyester powder coat on the entire enclosure.***

6. Why were CABLE10 items 279 through 323 not included on CABLE11? Does the State of WV not currently purchase and have these items installed at statewide facilities? ***Items 279 through 323 were removed.***

7. If substituting, are samples and descriptive literature only required for the 17 items list? ***YES***

8. Or are vendors required to submit samples and descriptive literature for all items that are substituted? ***NO, samples & descriptive literature are only required for the 17 products specified. But the vendor does need to list/designate the manufacturer's name & product item number on each line item if they are substituting for any other items on this contract bid.***

9. Item 76 is listed as Siemon HD5-89D-12 No Substitute. Is this correct? Or will substitutes be allowed? ***Substitutes will be allowed.***



1010 Young Street
Charleston, WV 25301

Name: Brenda Vanover

Title: Branch Manager

Phone 304-344-2371

Direct 304-344-2371 ext 130

Fax 304-344-0324

September 30, 2010

Jo Ann Adkins
State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25526

RE: CABLE11 – Addendum 1 – Questions and Answers

Dear Ms. Adkins:

Concerning question "Two" on Questions and Answers – Graybar Electric chooses the Preferred Terms on Cable11. All prices are firm for the duration of the contract with the exception of the following items that are tied to a copper commodity base:

Items: 42, 43, 44, 45, 46, 48, 49, 81 and 82

The cost to Graybar from our manufacturers on the above items are based on COMEX (Commodity Exchange of precious metals) with pricing at \$3.45 per pound. If copper pricing increases or decreases more than .20 cents per pound, Graybar **may** request an adjustment based on the "pass through" increase of raw materials. If the price of metal decreases, Graybar **will** pass the savings to the State of WV. Per the terms of the Price Adjustment Provisions, Graybar will provide a 30-day written notice in advance of the effective date with a hard dollar figure for your consideration.

Thank you for the opportunity to bid CABLE11. Graybar Electric looks forward to providing material on this contract if we are the successful bidder.

Very truly yours,

A handwritten signature in cursive script that reads "Brenda Vanover".

Brenda Vanover, Branch Manager

GenSPEED® 5000 Category 5e Cable

Features And Benefits

- Engineered to provide stable and continuous performance
- Performance guaranteed to 200 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED



CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Rip Cord

- Applied longitudinally under jacket

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flexguard® Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.200	0.180
Nominal Cable Weight (lbs/1000ft)	21	19
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	5133299E	5131278E	5133374E	5131431E	5133300E	5131282E
White	5133255E	5131361E	5133342E	5131450E	5133250E	5131365E
Yellow	5133289E	5131379E	5133448E	5131546E		5131648E
Gray	5133200E	5131418E	5133329E	5131456E	5133204E	5131475E
Red	5133274E	5131477E	5133427E	5131553E		5131383E
Orange	5133383E	5131422E			5133667E	
Green	5133512E	5131547E	5133693E	5131575E	5133649E	5131649E
Black	5133696E	5131683E				5131689E
Pink	5133290E	5131380E	5133447E	5131478E		
Purple	5133445E	5131730E				

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead-time may apply.

Non-stock items may be subject to minimum order quantities.

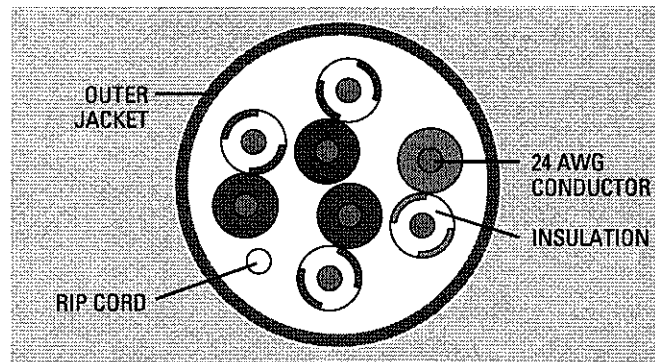
Data subject to change without notice.

GenSPEED® 5000 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	—
200	—	—	32.4	27.8	30.8	14.8	17.8	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
300	—	—	41.0	25.1	28.1	11.3	14.3	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

Note: Values are expressed in dB per 100m (328 ft.) length. Values above 200 MHz are for information only.

GenSPEED® 5000 CATEGORY 5e CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Mutual Capacitance (nom) pF/ft @ 1 KHz	14
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-200 MHz	Ohms 100 ± 15

GenSPEED® 5500 Premium Category 5e Cable

Features And Benefits

- Ensures increased headroom for future applications, lower bit-error rates, and higher signal transmission quality
- Enhanced signal-to-noise ratio, improving bit-error rate
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband Analog Video

Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED

RoHS Compliant
Directive 2002/95/EC



CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

Rip Cord

- Applied longitudinally under jacket

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.210	0.190
Nominal Cable Weight (lbs/1000ft)	22	20
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	6133299	6131278	6133403	6131433	6133282	6131282
White	6133255	6131361	6133339	6131449	6133492	6131618
Yellow	6133289	6131546	6133369	6131379	6133348	6131382
Gray	6133200	6131418	6133331	6131619	6133334	
Red	6133274	6131477		6131635		
Orange	6133746	6131422	6133383	6131576		
Green	6133512	6131547	6133615	6131575	6133616	6131757
Black	6133696	6131683		6131829		
Pink	6133290	6131709	6133447	6131478	6133341	
Purple	6133445	6131710	6133446			

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead-time may apply.

Non-stock items may be subject to minimum order quantities.

Data subject to change without notice.

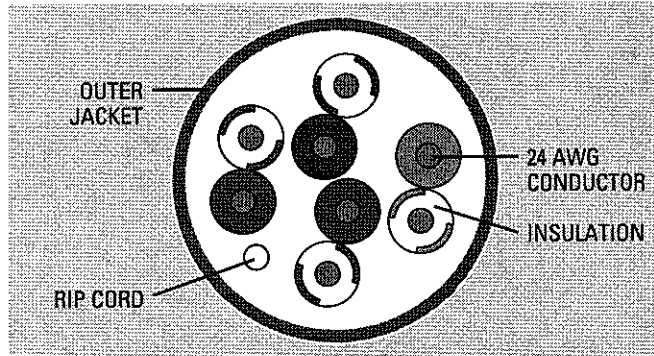
Enhanced Transmission Throughput

GenSPEED® 5500 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	66.3	68.3	2.0	68.3	70.3	62.0	65.0	20.0
4	55.4	57.4	3.9	59.3	61.3	50.0	53.0	23.0
10	47.1	49.1	6.2	53.3	55.3	42.0	45.0	25.0
16	42.3	44.3	7.9	50.2	52.2	37.9	40.9	25.0
20	39.9	41.9	8.9	48.8	50.8	36.0	39.0	25.0
25	37.4	39.4	10.0	47.3	49.3	34.0	37.0	24.3
31.25	34.7	36.7	11.2	45.9	47.9	32.1	35.1	23.6
62.5	25.1	27.1	16.3	41.4	43.4	26.1	29.1	21.5
100	17.3	19.3	21.0	38.3	40.3	22.0	25.0	20.1
155	8.6	10.6	26.9	35.4	37.4	18.2	21.2	18.8
200	2.8	4.8	31.0	33.8	35.8	16.0	19.0	18.0
250	—	—	35.3	32.3	34.3	14.0	17.0	17.3
300	—	—	39.2	31.1	33.1	12.5	15.5	16.8
350	—	—	42.9	30.1	32.1	11.1	14.1	16.3

Note: Values are expressed in dB per 100m (328 ft.) length.

GenSPEED® 5500 PREMIUM CATEGORY 5e CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz 250-350 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

GenSPEED® 6000 Enhanced Category 6 Cable

Features And Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital Video
- Broadband and Baseband Analog Video
- Draft IEEE 802.3at for PoE Plus

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- TIA 568 C Draft
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

Separator

- Cross-web

Rip Cord

- Applied longitudinally under jacket

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.235	0.225
Nominal Cable Weight (lbs/1000ft)	28	31
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133900	7131900	7133940	7131940	7133960	7131960
White	7133901	7131901	7133941	7131941	7133961	7131961
Yellow	7133902	7131902	7133942	7131942	7133962	7131962
Gray	7133903	7131903	7133943	7131943	7133963	7131963
Red	7133904	7131904	7133944	7131944	7133964	7131964
Orange	7133905	7131905	7133945	7131945	7133965	7131965
Green	7133906	7131906	7133946	7131946	7133966	7131966
Black	7133907	7131907	7133947	7131947	7133967	7131967
Pink	7133908	7131908	7133948	7131948	7133968	7131968
Purple	7133909	7131909	7133949	7131949	7133969	7131969

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead-time may apply.

Non-stock items may be subject to minimum order quantities.

Data subject to change without notice.

Optimally Balanced Enhanced Performance

GenSPEED® 6000 Electrical Performance

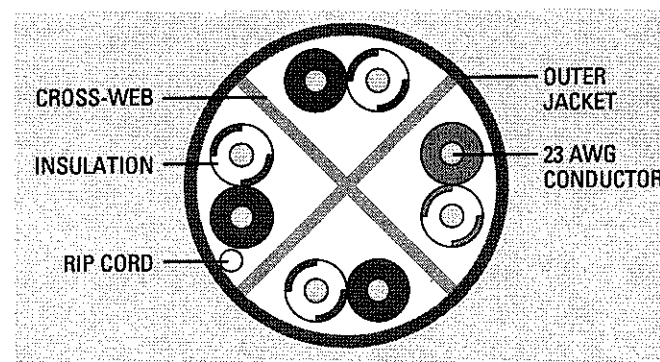
Frequency MHz	PSACR (min)		ACR (min)		Attenuation (max)		PSNEXT (min)		NEXT (min)	
	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed
1	70.3	75.3	72.3	77.3	2.0	2.0	72.3	77.3	74.3	79.3
4	59.3	64.5	61.5	66.5	3.8	3.8	63.3	68.3	65.3	70.3
10	51.3	56.4	53.3	58.4	6.0	5.9	57.3	62.3	59.3	64.3
16	46.7	51.7	48.7	53.8	7.6	7.5	54.2	59.3	56.2	61.3
20	44.3	49.4	46.3	51.4	8.5	8.4	52.8	57.8	54.8	59.8
31.25	39.2	44.3	41.2	46.3	10.7	10.6	49.9	54.9	51.9	56.9
62.5	29.9	35.1	32.0	37.1	15.4	15.3	45.4	50.4	47.4	52.4
100	22.5	27.6	24.5	29.6	19.8	19.7	42.3	47.3	44.3	49.3
150	14.9	20.0	16.9	22.0	24.7	24.7	39.7	44.7	41.7	46.7
200	8.8	13.8	10.8	15.8	29.0	29.0	37.8	42.8	39.8	44.8
250	3.5	8.7	5.5	10.7	32.8	32.6	36.3	41.3	38.3	43.3
350	—	—	—	1.7	—	39.5	—	39.2	—	41.2
500	—	—	—	—	—	48.6	—	36.8	—	38.8

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 350 MHz for reference only.

Frequency MHz	PSELFEXT (min)		ELFEXT (min)		Return Loss (min)		LCL (min)		ELTCTL (min)	
	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed
1	64.8	69.8	67.8	72.8	20.0	20.0	40.0	40.0	35.0	35.0
4	52.8	57.7	55.7	60.7	23.0	23.6	40.0	40.0	23.0	23.0
10	44.8	49.8	47.8	52.8	25.0	26.0	40.0	40.0	15.0	15.0
16	40.7	45.7	43.7	48.7	25.0	26.0	38.0	38.0	10.9	10.9
20	38.8	43.7	41.7	46.7	25.0	26.0	37.0	37.0	9.0	9.0
31.25	34.9	39.9	37.9	42.9	23.6	25.0	35.1	35.1	5.1	5.1
62.5	28.9	33.8	31.8	36.8	21.5	23.5	32.0	32.0	5.0	5.0
100	24.8	29.8	27.8	32.8	20.1	22.5	30.0	30.0	5.0	5.0
150	21.3	26.3	24.3	29.3	18.9	21.6	28.2	28.2	5.0	5.0
200	18.8	23.8	21.8	26.8	18.0	21.0	27.0	27.0	5.0	5.0
250	16.8	21.8	19.8	24.8	17.3	20.5	26.0	26.0	5.0	5.0
350	—	18.9	—	21.9	—	19.8	—	—	—	—
500	—	15.8	—	18.8	—	19.0	—	—	—	—

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 350 MHz for reference only.

GenSPEED® 6000 ENHANCED CATEGORY 6 CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100m	CMP: 35 CMR: 38
Norm. Velocity of Propagation % Speed of Light	CMP: 70 CMR: 68
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz 250-500 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

ITEM NUM.	BID Quantity	Unit	Description	See Other Page***	Unit Price	Extension Price
1	50	EA	PLASTIC CABLE TIES; 7 15/16" IN LENGTH, 100PK 3-M PART # 3-M06226 OR EQUAL BID 3M		\$6.16	\$308.00
2	200	EA	VELCRO TYRAP WIRE TIES; 8" IN LENGTH; HELLERMAN TYTON PART # GT50X80P2 OR EQUAL BID PANDUIT		\$0.57	\$114.62
3	500	EA	CABLE SUPPORT J-HOOK; ERICO PART # CAT32 OR EQUAL BID ERICO		\$2.27	\$1,135.00
4	200	EA	ELECTRICAL TAPE; 3-M SCOTCH SUPER 88 PART # 88-SUPER-3/4" X 66FT OR EQUAL BID 3M	3M	\$3.61	\$722.00
5	50	EA	3M MOLDABLE PUTTY STIX PART # 3M-MPS-2+ OR EQUAL BID 3M		\$13.18	\$659.00
6	500	EA	CABLE RETAINER CLIP; ERICO PART # CATCR50 OR EQUAL BID ERICO		\$0.56	\$280.00
7	500	EA	SINGLE GANG LOW VOLTAGE MOUNTING BRACKETS; ARLINGTON PART # LV-1 OR EQUAL BID ARLINGTON		\$0.76	\$380.00
8	30	EA	3/4"W X 25YDS LONG BLACK VELCRO IN A ROLL VELCRO PART# 189645 OR EQUAL BID VELCRO		\$18.39	\$551.70
9	10	EA	3M WIRE MARKER DISPENSER 0 THRU 9 ON A ROLL 3-M PART # STD-0-9 (FILLED) OR EQUAL BID 3M		\$22.19	\$221.90
10	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 0 PART# SDR-0 OR EQUAL BID 3M		\$1.40	\$42.00
11	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 1 PART# SDR-1 OR EQUAL BID 3M		\$1.40	\$42.00
12	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 2 PART# SDR-2 OR EQUAL BID 3M		\$1.40	\$42.00
13	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 3 PART# SDR-3 OR EQUAL BID 3M		\$1.40	\$42.00
14	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 4 PART# SDR-4 OR EQUAL BID 3M		\$1.40	\$42.00
15	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 5 PART# SDR-5 OR EQUAL BID 3M		\$1.40	\$42.00
16	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 6 PART# SDR-6 OR EQUAL BID 3M		\$1.40	\$42.00
17	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 7 PART# SDR-7 OR EQUAL BID 3M		\$1.40	\$42.00
18	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 8 PART# SDR-8 OR EQUAL BID 3M		\$1.40	\$42.00
19	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 9 PART# SDR-9 OR EQUAL BID 3M		\$1.40	\$42.00
20	100	EA	ADJUSTABLE CABLE SUPPORT; ERICO PART#CAT425 OR EQUAL BID ERICO		\$10.90	\$1,090.00
21	20	EA	PHILLIPS HEAD 3/4" LONG 10-32 RACK SCREWS W/WASHERS 100PK MIDDLE ATLANTIC PRODUCTS PART # HP OR EQUAL BID DATATEL		\$14.81	\$296.20
22	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS MOUNTING HARDWARE INCLUDED GREAT LAKES PART# 1984-VCM OR EQUAL BID GREAT LAKES		\$179.68	\$3,593.60
23	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS MOUNTING HARDWARE INCLUDED CHATSWORTH PART# 12096-703 OR EQUAL BID CHATSWORTH		\$241.21	\$4,824.20
24	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS MOUNTING HARDWARE INCLUDED AFCO SYSTEMS PART# AS-CTRG-84-WBLK OR EQUAL BID BELDEN		\$156.95	\$3,139.00
25	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS MOUNTING HARDWARE INCLUDED SOUTHWEST PART# SWE2729BLK OR EQUAL BID CHATSWORTH		\$241.12	\$4,822.40
26	40	EA	DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY 20" IN WIDTH; & 84" HEIGHT GREAT LAKES PART# GLRR-1984BA OR EQUAL BID CHATSWORTH		\$98.84	\$3,953.60

27	40	EA	DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY 20" IN WIDTH; & 84" HEIGHT. CHATSWORTH PART# 46353-703 OR EQUAL BID CHATSWORTH			\$185.23	\$7,409.20
28	10	EA	48" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL48SR OR EQUAL BID GREAT LAKES			\$173.28	\$1,732.80
29	10	EA	36" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL36SR OR EQUAL BID GREAT LAKES			\$159.60	\$1,596.00
30	10	EA	24" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL24SR OR EQUAL BID GREAT LAKES			\$143.63	\$1,436.30
31	10	EA	84" NETWORKING CABINET; CABINET WILL INCLUDE THE FOLLOWING: CASTERS, LEVELERS, GROUND LUG, TWO PAIR SQUARE HOLE RAILS, M6 HARDWARE, BOTTOM GLAND, TOP GLAND, 10IN FAN TOP, PERFORATED MESH FRONT DOOR, PERFORATED MESH REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. BELDEN PART# XDP84-3-1S0046 OR EQUAL BID CHATSWORTH			\$1,609.86	\$16,098.60
32	10	EA	72" NETWORKING CABINET; CABINET WILL INCLUDE THE FOLLOWING: CASTERS, LEVELERS, GROUND LUG, TWO PAIR SQUARE HOLE RAILS, M6 HARDWARE, BOTTOM GLAND, TOP GLAND, 10IN FAN TOP, PERFORATED MESH FRONT DOOR, PERFORATED MESH REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. BELDEN PART# XDP72-3-1S0012 OR EQUAL BID CHATSWORTH			\$1,602.57	\$16,025.70
33	10	EA	84" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS VENTED FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 84"H X 29" W X 36" D; GREAT LAKES PART # 840E-2936WVCC OR EQUAL BID CHATSWORTH			\$1,293.15	\$12,931.50
34	10	EA	72" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS VENTED FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 72"H X 29" W X 36" D GREAT LAKES PART # 720E-2936WVCC OR EQUAL BID CHATSWORTH			\$1,271.97	\$12,719.70
35	5	EA	48" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS VENTED FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 6 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 48"H X 24" W X 32" D GREAT LAKES PART # 480E-2432WVCC OR EQUAL BID GREAT LAKES			\$1,054.64	\$5,273.20
36	10	EA	STATIONARY SHELVES FOR 19" MOUNTING IN NETWORKING CABINETS; GREAT LAKES PART # 7206-FM OR EQUAL BID GREAT LAKES			\$37.96	\$379.60
37	20	EA	FAN ASSEMBLY W/FAN GUARDS & THREE 75 CFM FANS FOR NETWORKING CABINETS; GREAT LAKES PART # TPE-24F OR EQUAL BID GREAT LAKES			\$221.44	\$4,428.80

38	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 3/4" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 043-LD00 OR EQUAL BID DEKDUCT			\$1.01	\$1,010.00
39	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 1 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 042-LD00 OR EQUAL BID DEK DUCT			\$1.52	\$1,520.00
40	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 2 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 045-LD00 OR EQUAL BID DEKDUCT			\$1.59	\$1,590.00
41	1000	FT	RACEWAY MOLDING; TWO-PIECE; NON-METALLIC; 4" WIDTH X 2" DEPTH; DEKDUCT PART # 046-4020DWP OR EQUAL BID DEKDUCT			\$2.18	\$2,180.00
42	20,000	FT	25 PAIR PLENUM CATEGORY 3 CABLE PART# WCETEL24/25PC3P OR EQUAL BID GENERAL			\$0.58	\$11,600.00
43	20,000	FT	50 PAIR PLENUM CATEGORY 3 CABLE PART# WCETEL24/50PC3P OR EQUAL BID GENERAL			\$1.17	\$23,400.00
44	20,000	FT	100 PAIR PLENUM CATEGORY 3 CABLE PART# WCETEL24/100PC3P OR EQUAL BID GENERAL			\$2.38	\$47,600.00
45	100,000	FT	CAT. 5e MIN COMPLIANT PVC CABLE; NON-PLENUM; WHITE IN COLOR; 1,000 FT. PER EASY PULL BOX; MOHAWK PART # M57554 OR EQUAL BID GENERAL	***		\$0.08522	\$8,522.00
46	200,000	FT	CAT. 5e MIN COMPLIANT CABLE; PLENUM; WHITE IN COLOR; 1,000 FT. PER EASY PULL BOX; MOHAWK PART # M57547 OR EQUAL BID GENERAL	***		\$0.13068	\$26,136.00
47	3000	EA	QUICK PORT 8P8C MODULAR RJ45 JACKS FOR CAT5e MIN COMPLIANT; WHITE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE; LEVITON PART # 5G108-RW5 OR EQUAL BID LEVITON	***		\$2.32	\$6,960.00
48	200,000	FT	CAT. 5E ENHANCED CABLE; NON-PLENUM RISER RATED; EASY PULL BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS MUST BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56167 OR EQUAL BID GENERAL	***		\$0.09782	\$19,564.00
49	300,000	FT	CAT. 5E ENHANCED CABLE; PLENUM; EASY PULL BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS MUST BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56168 OR EQUAL BID GENERAL	***		\$0.16847	\$50,541.00
50	3,000	EA	LEVITON QUICKPORT 8P8C MODULAR RJ45 JACKS FOR CAT5E ENHANCED; ORANGE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE; LEVITON PART # 5G110-RO5 OR EQUAL BID LEVITON	***		\$2.81	\$8,430.00
51	200	EA	CAT 5E ENHANCED 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 553-130-001 OR EQUAL BID ALLEN TEL			\$1.34	\$268.00
52	200	EA	CAT 5E ENHANCED 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-003 OR EQUAL BID ALLEN TEL			\$0.53	\$106.00
53	200	EA	CAT 5E ENHANCED 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-005 OR EQUAL BID ALLEN TEL			\$0.71	\$142.00
54	200	EA	CAT 5E ENHANCED 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-007 OR EQUAL BID ALLEN TEL			\$0.84	\$168.00
55	200	EA	CAT 5E ENHANCED 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-010 OR EQUAL BID ALLEN TEL			\$1.12	\$224.00
56	200	EA	CAT 5E ENHANCED 14FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-014 OR EQUAL BID ALLEN TEL			\$1.46	\$292.00
57	200	EA	CAT 5E ENHANCED 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-025 OR EQUAL BID ALLEN TEL			\$2.44	\$488.00

58	100	EA	CAT 5E ENHANCED 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-050 OR EQUAL BID ALLEN TEL		\$4.56	\$456.00
59	500	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 1 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 570-110-001 OR EQUAL BID ALLEN TEL		\$0.36	\$180.00
60	500	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 551-110-18IN OR EQUAL BID ALLEN TEL		\$1.44	\$720.00
61	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 3 FOOT LENGTH; LEVITON PART# 5G460-03* (* - COLOR) OR EQUAL BID ALLEN TEL		\$1.59	\$3,180.00
62	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 5 FOOT LENGTH; LEVITON PART# 5G460-05* (* - COLOR) OR EQUAL BID ALLEN TEL		\$0.66	\$660.00
63	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 7 FOOT LENGTH; LEVITON PART# 5G460-07* (* - COLOR) OR EQUAL BID ALLEN TEL		\$0.86	\$1,720.00
64	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 10 FOOT LENGTH; LEVITON PART# 5G460-10* (* - COLOR) OR EQUAL BID ALLEN TEL		\$1.10	\$1,100.00
65	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 15 FOOT LENGTH; LEVITON PART# 5G460-15* (* - COLOR) OR EQUAL BID ALLEN TEL		\$1.90	\$1,900.00
66	500	EA	CAT. 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 25 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART # 551-XXX-025 OR EQUAL (XXX=COLOR) BID ALLEN TEL		\$2.52	\$1,260.00
67	100	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 551-XXX-050 OR EQUAL (XXX=COLOR) BID ALLEN TEL		\$4.78	\$478.00
68	100	EA	CAT. 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 100 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 551-XXX-100 OR EQUAL (XXX=COLOR) BID ALLEN TEL		\$9.34	\$934.00
69	50	EA	LEVITON QUICKPORT HIGH DENSITY 48-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H48 OR EQUAL BID LEVITON		\$43.14	\$2,157.00
70	50	EA	LEVITON QUICKPORT HIGH DENSITY 24-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H24 OR EQUAL BID LEVITON		\$31.63	\$1,581.50
71	50	EA	LEVITON QUICKPORT HIGH DENSITY 12-PORT PATCH PANEL LEVITON PART#49255-H89 OR EQUAL BID LEVITON		\$8.90	\$445.00
72	100	EA	LEVITON 48-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART# 5G596-U48 OR EQUAL BID LEVITON	***	\$138.13	\$13,813.00
73	100	EA	LEVITON 24-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U24 OR EQUAL BID LEVITON	***	\$69.07	\$6,907.00
74	50	EA	LEVITON 12-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U12 OR EQUAL BID LEVITON	***	\$51.56	\$2,578.00
75	50	EA	LEVITON 12-PORT 8P8C RJ45 CAT5E WALL MT. PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U89 OR EQUAL BID LEVITON	***	\$37.38	\$1,869.00

76	20	EA	SIEMON 12-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-89D-12 NO SUBSTITUTE BID LEVITON		\$37.38	\$747.60
77	200	EA	SIEMON RACK MT. 1U WIRE MANAGER PART# S110-RWM-01 OR EQUAL BID SIEMON		\$19.06	\$3,812.00
78	20	EA	SIEMON WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; SIEMON WM-144-5 OR EQUAL BID SIEMON		\$27.93	\$558.60
79	20	EA	2-POSITION HINGED FIXED BRACKETS FOR WALL; DATATEL PART # HPM-2 OR EQUAL BID DATATEL		\$31.10	\$622.00
80	100	EA	WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; DATATEL PART # HCM-1D OR EQUAL BID DATATEL		\$24.07	\$2,407.00
81	200,000	FT	CAT 6 ENHANCED CABLE; NON-PLENUM; EASY PULL BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS MUST BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57202 OR EQUAL BID GENERAL	***	\$0.13478	\$26,956.00
82	300,000	FT	CAT 6 ENHANCED CABLE; PLENUM; EASY PULL BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS MUST BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57193 OR EQUAL BID GENERAL	***	\$0.25568	\$76,704.00
83	5000	EA	QUICKPORT CAT6 EXTREME 8P8C RJ45 SNAP-IN CONNECTOR; BLUE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE; LEVITON PART # 61110-RL6 OR EQUAL BID LEVITON	***	\$4.02	\$20,100.00
84	100	EA	CAT 6 EXTREME 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-001 OR EQUAL BID ALLEN TEL		\$2.88	\$288.00
85	200	EA	CAT 6 EXTREME 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-003 OR EQUAL BID ALLEN TEL		\$3.18	\$636.00
86	100	EA	CAT 6 EXTREME 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-005 OR EQUAL BID ALLEN TEL		\$3.47	\$347.00
87	200	EA	CAT 6 EXTREME 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-007 OR EQUAL BID ALLEN TEL		\$3.77	\$754.00
88	200	EA	CAT 6 EXTREME 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-010 OR EQUAL BID ALLEN TEL		\$4.21	\$842.00
89	200	EA	CAT 6 EXTREME 15FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-015 OR EQUAL BID ALLEN TEL		\$4.89	\$978.00
90	100	EA	CAT 6 EXTREME 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-025 OR EQUAL BID ALLEN TEL		\$6.20	\$620.00
91	50	EA	CAT 6 EXTREME 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-050 OR EQUAL BID ALLEN TEL		\$9.00	\$450.00
92	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-18IN OR EQUAL (XXX=COLOR) BID ALLEN TEL		\$2.96	\$592.00
93	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 1 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-001 OR EQUAL (XXX=COLOR) BID ALLEN TEL		\$2.88	\$576.00
94	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 3 FOOT LENGTH; LEVITON PART # 62460-03* (*-COLOR) OR EQUAL BID ALLEN TEL		\$1.31	\$524.00

95	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 5 FOOT LENGTH; LEVITON PART # 62460-05* (*-COLOR) OR EQUAL BID ALLEN TEL		\$1.59	\$636.00
96	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 7 FOOT LENGTH; LEVITON PART # 62460-07* (*-COLOR) OR EQUAL BID ALLEN TEL		\$1.98	\$792.00
97	200	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 10 FOOT LENGTH; LEVITON PART # 62460-10* (*-COLOR) OR EQUAL BID ALLEN TEL		\$2.18	\$436.00
98	100	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 15 FOOT LENGTH; LEVITON PART # 62460-15* (*-COLOR) OR EQUAL BID ALLEN TEL		\$3.61	\$361.00
99	50	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 20 FOOT LENGTH; LEVITON PART # 62460-20* (*-COLOR) OR EQUAL BID ALLEN TEL		\$4.50	\$225.00
100	50	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-050 OR EQUAL (XXX=COLOR) BID ALLEN TEL		\$5.38	\$269.00
101	50	EA	LEVITON 48-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U48 OR EQUAL BID LEVITON	***	\$202.19	\$10,109.50
102	50	EA	LEVITON 24-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U24 OR EQUAL BID LEVITON	***	\$102.63	\$5,131.50
103	50	EA	LEVITON 12-PORT PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U12 OR EQUAL BID LEVITON	***	\$67.04	\$3,352.00
104	50	EA	LEVITON 12-PORT 8P8C RJ45 CAT6 WALL MT. PATCH PANEL; MUST BE CAT6 ENHANCED CERTIFIED; LEVITON PART # 69586-U89 OR EQUAL BID LEVITON	***	\$62.53	\$3,126.50
105	1000	EA	2-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-2*P (*-COLOR) OR EQUAL BID LEVITON		\$1.22	\$1,220.00
106	100	EA	4-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-4*P (*-COLOR) OR EQUAL BID LEVITON		\$2.28	\$228.00
107	100	EA	SINGLE GANG IVORY BLANK WALL PLATE; LEVITON PART# 86014 OR EQUAL BID LEVITON		\$0.20	\$20.00
108	100	EA	SINGLE GANG WHITE BLANK WALL PLATE; LEVITON PART# 88014 OR EQUAL BID LEVITON		\$0.20	\$20.00
109	100	EA	QUICKPORT STAINLESS STEEL FLUSH WALLPHONE WALLPLATE; LEVITON PART# 4108W-0SP OR EQUAL BID LEVITON		\$5.87	\$587.00
110	500	EA	1-PORT WALLPLATES; LEVITON PART # 41080-1*P (*-COLOR) OR EQUAL BID LEVITON		\$0.94	\$470.00
111	1000	EA	2-PORT WALLPLATES; LEVITON PART # 41080-2*P (*-COLOR) OR EQUAL BID LEVITON		\$0.94	\$940.00
112	100	EA	3-PORT WALLPLATES; LEVITON PART # 41080-3*P (*-COLOR) OR EQUAL BID LEVITON		\$0.94	\$94.00
113	100	EA	4-PORT WALLPLATES; LEVITON PART # 41080-4*P (*-COLOR) OR EQUAL BID LEVITON		\$0.94	\$94.00
114	50	EA	6-PORT WALLPLATES; LEVITON PART # 41080-6*P (*-COLOR) OR EQUAL BID LEVITON		\$0.94	\$47.00
115	5000	FT	FIBER OPTIC CABLE 48-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX048-105D-WLS/900-OFNR OR CORNING PART # 048KWF-T4130D20 OR EQUAL BID GENERAL		\$2.11	\$10,550.00

116	5000	FT	FIBER OPTIC CABLE 24-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX024-085D-WLS/900-OFNR OR CORNING PART # 024K8F-31130-24 OR EQUAL BID CORNING		\$1.55	\$7,750.00
117	5000	FT	FIBER OPTIC CABLE 12-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX012-065D-WLS/900-OFNR OR CORNING PART # 012K8F-31130-24 OR EQUAL BID GENERAL		\$0.63	\$3,150.00
118	5000	FT	FIBER OPTIC CABLE 6-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX006-055D-WLS/900-OFNR OR CORNING PART # 006K8F-31130-24 OR EQUAL BID GENERAL		\$0.36	\$1,800.00
119	5000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX048-095K-WLS/900-OFNP OR CORNING PART # 048KWP-T4130D20 OR EQUAL BID GENERAL		\$2.68	\$13,400.00
120	5000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX24-075K-WLS/900/OFNP OR CORNING PART # 024K8P-31130-29 OR EQUAL BID GENERAL		\$1.33	\$6,650.00
121	5000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX12-060K-WLS/900-OFNP OR CORNING PART # 012K8P-31130-29 OR EQUAL BID GENERAL		\$0.63	\$3,150.00
122	5000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX06-045K-WLS/900-OFNP OR CORNING PART # 006K8P-31130-29 OR EQUAL BID GENERAL		\$0.36	\$1,800.00
123	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX48-105D-WLS/900-OFNR-IAD OR CORNING PART # 048KWF-T4130DA1 OR EQUAL BID CORNING		\$2.18	\$10,900.00
124	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX24-085D-WLS/900-OFNR-IAD OR CORNING PART # 024K8F-31130-A1 OR EQUAL BID CORNING		\$2.38	\$11,900.00
125	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX12-065D-WLS/900-OFNR-IAD OR CORNING PART # 012K8F-31130-A1 OR EQUAL BID CORNING		\$1.42	\$7,100.00
126	5000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX06-055D-WLS/900-OFNR-IAD OR CORNING PART # 006K8F-31130-A1 OR EQUAL BID CORNING		\$0.98	\$4,900.00
127	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX48-095K-WLS/900-OFNR-IAK OR CORNING PART # 048KWP-T4130DA1 OR EQUAL BID GENERAL		\$3.55	\$17,750.00
128	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX24-070K-WLS/900-OFNR-IAK OR CORNING PART # 024K8P-31130-A3 OR EQUAL BID CORNING		\$3.11	\$15,550.00
129	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX12-060K-WLS/900-OFNR-IAK OR CORNING PART # 012K8P-31130-A3 OR EQUAL BID CORNING		\$1.67	\$8,350.00

130	5000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX06-050K-WLS/900-OFCP-IAK OR CORNING PART # 006K8P-31130-A3 OR EQUAL BID CORNING			\$1.17	\$5,850.00
131	3000	FT	FIBER OPTIC CABLE 24-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX24-095A-WLS/900-JGS OR CORNING PART # 024KWA-T4130D20 OR EQUAL BID GENERAL			\$1.08	\$3,240.00
132	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX12-090A-WLS/900-JGS OR CORNING PART # 012KWA-T4130D20 OR EQUAL BID GENERAL			\$0.72	\$2,160.00
133	3000	FT	FIBER OPTIC CABLE 6-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX06-090A-WLS/900-JGS OR CORNING PART # 006KWA-T4130D20 OR EQUAL BID GENERAL			\$0.55	\$1,650.00
134	3000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX048-105D-ALS/900-OFNR OR CORNING PART # 048CWF-T4131D20 OR EQUAL BID GENERAL			\$1.90	\$5,700.00
135	3000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX024-085D-ALS/900-OFNR OR CORNING PART # 024C8F-31131-24 OR EQUAL BID CORNING			\$1.32	\$3,960.00
136	3000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX012-065D-ALS/900-OFNR OR CORNING PART # 012C8F-31131-24 OR EQUAL BID GENERAL			\$0.67	\$2,010.00
137	3000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX006-055D-ALS/900-OFNR OR CORNING PART # 006C8F-31131-24 OR EQUAL BID GENERAL			\$0.33	\$990.00
138	3000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX048-095K-ALS/900-OFNP OR CORNING PART # 048CWP-T4131D20 OR EQUAL BID GENERAL			\$2.15	\$6,450.00
139	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX024-070K-ALS/900-OFNP OR CORNING PART # 024C8P-31131-29 OR EQUAL BID GENERAL			\$1.21	\$3,630.00
140	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX012-060K-ALS/900-OFNP OR CORNING PART # 012C8P-31131-29 OR EQUAL BID GENERAL			\$0.56	\$1,680.00
141	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX006-045K-ALS/900-OFNP OR CORNING PART # 006C8P-31131-29 OR EQUAL BID GENERAL			\$0.33	\$990.00
142	3000	FT	FIBER OPTIC CABLE 48-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX48-105D-ALS/900-OFNR-IAK OR CORNING PART # 048CWF-T4131DA1 OR EQUAL BID GENERAL			\$3.19	\$9,570.00
143	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX24-085D-ALS/900-OFNR-IAK OR CORNING PART # 024C8F-31131-A1 OR EQUAL BID CORNING			\$2.92	\$8,760.00

144	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O 50UM MULTIMODE ARMORED OCC PART# DX12-065D-ALS/900-OFCE-IAD OR CORNING PART # 012C8F-31131-A1 OR EQUAL BID CORNING			\$1.33	\$3,990.00
145	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O 50UM MULTIMODE ARMORED PART # DX06-055D-ALS/900-OFCE-IAD OR CORNING PART # 006C8F-31131-A1 OR EQUAL BID CORNING	OCC		\$0.93	\$2,790.00
146	3000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX48-095K-ALS/900-OFCE-IAK OR CORNING PART # 048CWP-T4131DA1 OR EQUAL BID GENERAL			\$3.38	\$10,140.00
147	3000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX24-070K-ALS/900-OFCE-IAK OR CORNING PART # 024C8P-31131-A3 OR EQUAL BID CORNING			\$2.92	\$8,760.00
148	3000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX12-060K-ALS/900-OFCE-IAK OR CORNING PART # 012C8P-31131-A3 OR EQUAL BID CORNING			\$1.67	\$5,010.00
149	3000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX06-050K-ALS/900-OFCE-IAK OR CORNING PART # 006C8P-31131-A3 OR EQUAL BID CORNING			\$1.12	\$3,360.00
150	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL/DUCT MULTIMODE 50/125 OCC PART # DX012-075A-ALS/900 OR CORNING PART # 012CW4-T4131D20 OR EQUAL BID GENERAL			\$0.42	\$1,260.00
151	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL W/MESSENGER MULTIMODE 50/125 OCC PART # M12-090A-ALS/900-JGS OR CORNING PART # 012CWA-T4131D20 OR EQUAL BID GENERAL			\$0.646	\$1,938.00
152	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O SINGLEMODE 9/125 OCC PART # DX24-085D-SLX/900-OFNR-WB OR CORNING PART # 024E8F-31131-24 OR EQUAL BID CORNING			\$0.67	\$2,010.00
153	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O SINGLEMODE 9/125 OCC PART # DX12-065D-SLX/900-OFNR-WB OR CORNING PART # 012E8F-31131-24 OR EQUAL BID GENERAL			\$0.36	\$1,080.00
154	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O SINGLEMODE 9/125 OCC PART # DX06-055D-SLX/900-OFNR-WB OR CORNING PART # 006E8F-31131-24 OR EQUAL BID GENERAL			\$0.22	\$660.00
155	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX24-070K-SLX/900-OFNP-WB OR CORNING PART # 024E8P-31131-29 OR EQUAL BID GENERAL			\$0.79	\$2,370.00
156	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX12-060K-SLX/900-OFNP-WB OR CORNING PART # 012E8P-31131-29 OR EQUAL BID GENERAL			\$0.36	\$1,080.00
157	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX06-045K-SLX/900-OFNP-WB OR CORNING PART # 006E8P-31131-29 OR EQUAL BID GENERAL			\$0.23	\$690.00

158	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX24-085D-SLX/900-OFCR-IAD OR CORNING PART # 024E8F-31131-A1 OR EQUAL BID CORNING		\$1.76	\$5,280.00
159	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX12-070D-SLX/900-OFCR-IAD OR CORNING PART # 012E8F-31131-A1 OR EQUAL BID CORNING		\$1.11	\$3,330.00
160	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX06-060D-SLX/900-OFCR-IAD OR CORNING PART # 006E8F-31131-A1 OR EQUAL BID CORNING		\$0.82	\$2,460.00
161	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX24-070K-SLX/900-OFCR-IAK OR CORNING PART # 024E8P-31131-A3 OR EQUAL BID CORNING		\$2.48	\$7,440.00
162	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX12-060K-SLX/900-OFCR-IAK OR CORNING PART # 012E8P-31131-A3 OR EQUAL BID CORNING		\$1.36	\$4,080.00
163	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX06-050K-SLX/900-OFCR-IAK OR CORNING PART # 006E8P-31131-A3 OR EQUAL BID CORNING		\$1.13	\$3,390.00
164	2000	FT	OCC FIBER OPTIC HYBRID CABLE 96 FIBER ARMORED PLENUM COATED (48 STRAND MULTI-MODE 50/125 & 48 STRAND SINGLEMODE 9/125) OCC PART# DX96-140K-48ALS-48SLX/900-OFCR-IAK OR EQUAL BID GENERAL		\$4.55	\$9,100.00
165	2000	FT	FIBER OPTIC HYBRID CABLE 48 FIBER ARMORED PLENUM COATED (24 STRAND MULTI-MODE 50/125 & 24 STRAND SINGLEMODE 9/125) OCC PART # DX48-095K-24ALS-24SLX/900-OFCR-IAK OR CORNING PART # 048XWP-T41XXD20 OR EQUAL BID GENERAL		\$2.98	\$5,960.00
166	2000	FT	FIBER OPTIC HYBRID CABLE 24 FIBER ARMORED PLENUM COATED (12 STRAND MULTI-MODE 50/125 & 12 STRAND SINGLEMODE 9/125) OCC PART # DX24-075K-12ALS-12SLX/900-OFCR-IAK OR CORNING PART # 024X8P-311XX-A3 OR EQUAL BID CORNING		\$2.85	\$5,700.00
167	2000	EA	SIECOR SC MM 62.5UM CONNECTORS, PART # 95-000-40 OR EQUAL BID CORNING		\$6.56	\$13,120.00
168	1000	EA	SIECOR ST MM 62.5UM CONNECTORS, PART # 95-000-50 OR EQUAL BID CORNING		\$6.56	\$6,560.00
169	500	EA	SIECOR SC MM 50UM CONNECTORS, PART# 95-050-41 OR EQUAL BID CORNING		\$8.93	\$4,465.00
170	500	EA	SIECOR ST MM 50UM CONNECTORS, PART# 95-050-51 OR EQUAL BID CORNING		\$8.93	\$4,465.00
171	500	EA	SIECOR SC SM CONNECTORS, PART# 95-200-41 OR EQUAL BID CORNING		\$10.00	\$5,000.00
172	500	EA	SIECOR ST SM CONNECTORS, PART# 95-200-51 OR EQUAL BID CORNING		\$10.00	\$5,000.00
173	20	EA	MULTILINK 1U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-1RU-2X-SO OR EQUAL BID MULTILINK		\$62.50	\$1,250.00
174	20	EA	MULTILINK 2U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-2RU-4X-SO OR EQUAL BID MULTILINK		\$87.22	\$1,744.40
175	20	EA	MULTILINK 3U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-3RU-9X-TS OR EQUAL BID MULTILINK		\$140.55	\$2,811.00

176	20	EA	MULTILINK 6-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-06-P-BLK OR EQUAL BID MULTILINK		\$12.68	\$253.60
177	20	EA	MULTILINK 6-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-06-MM-P-BLK OR EQUAL BID MULTILINK		\$12.68	\$253.60
178	20	EA	MULTILINK 8-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-08-P-BLK OR EQUAL BID MULTILINK		\$14.28	\$285.60
179	20	EA	MULTILINK 8-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-08-MM-P-BLK OR EQUAL BID MULTILINK		\$16.91	\$338.20
180	20	EA	MULTILINK 12-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-12-P-BLK OR EQUAL BID MULTILINK		\$19.89	\$397.80
181	20	EA	MULTILINK 12-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-12-MM-P-BLK OR EQUAL BID MULTILINK		\$25.56	\$511.20
182	20	EA	MULTILINK BLANK MODULE; FITS RACK MOUNT ENCLOSURES MULTILINK PART # MFMB-600BB-BLK OR EQUAL BID MULTILINK		\$2.27	\$45.40
183	20	EA	LEVITON 1U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R1UA-A03 OR EQUAL BID LEVITON		\$78.60	\$1,572.00
184	20	EA	LEVITON 2U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R2UA-A06 OR EQUAL BID LEVITON		\$103.94	\$2,078.80
185	20	EA	LEVITON 3U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R3UA-A12 OR EQUAL BID LEVITON		\$138.50	\$2,770.00
186	20	EA	LEVITON SMALL EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 8"HIGH X 13"WIDE X 3.5"DEEP LEVITON PART# 5W110-00N OR EQUAL BID LEVITON		\$52.87	\$1,057.40
187	20	EA	LEVITON MEDIUM EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 14"HIGH X 12"WIDE X 5.25" DEEP LEVITON PART# 5W310-00N OR EQUAL BID LEVITON		\$71.56	\$1,431.20
188	20	EA	LEVITON LARGE EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 17" HIGH X 15" WIDE X 5.25" DEEP LEVITON PART# 5W710-00N OR EQUAL BID LEVITON		\$153.83	\$3,076.60
189	50	EA	LEVITON ST FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY LEVITON PART# 5F100-1ST OR EQUAL BID LEVITON		\$17.31	\$865.50
190	50	EA	LEVITON SC FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY LEVITON PART# 5F100-3SC OR EQUAL BID LEVITON		\$19.50	\$975.00
191	50	EA	LEVITON BLANK 6-PACK FOR FIBER ENCLOSURES LEVITON PART# 5F100-BPP OR EQUAL BID LEVITON		\$2.72	\$136.00
192	50	EA	LEVITON SC FIBER 8-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-8SC OR EQUAL BID LEVITON		\$20.55	\$1,027.50
193	50	EA	LEVITON SC FIBER 12-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-CSC OR EQUAL BID LEVITON		\$33.43	\$1,671.50
194	50	EA	SIECOR ST CONNECTOR PANEL, PART # WIC-CP1-25 OR EQUAL BID CORNING		\$24.33	\$1,216.50
195	50	EA	SIECOR SC CONNECTOR PANEL, PART # WIC-CP1-56 OR EQUAL BID CORNING		\$24.33	\$1,216.50
196	30	EA	SIECOR WALL MOUNT FIBER ENCLOSURE, PART # WIC-012 OR EQUAL BID CORNING		\$38.67	\$1,160.10
197	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER ST TO ST BID ALLEN TEL		\$4.65	\$465.00
198	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER ST TO SC BID ALLEN TEL		\$4.65	\$465.00
199	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO SC BID ALLEN TEL		\$4.65	\$465.00

200	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO ST BID ALLEN TEL		\$5.65	\$565.00
201	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO SC BID ALLEN TEL		\$5.65	\$565.00
202	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO LC BID ALLEN TEL		\$6.13	\$613.00
203	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO MTRJ BID ALLEN TEL		\$2.87	\$287.00
204	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO MTRJ BID ALLEN TEL		\$3.71	\$371.00
205	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO ST BID ALLEN TEL		\$5.27	\$527.00
206	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO SC BID ALLEN TEL		\$5.27	\$527.00
207	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER SC TO SC BID ALLEN TEL		\$5.27	\$527.00
208	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO ST BID ALLEN TEL		\$6.26	\$626.00
209	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO SC BID ALLEN TEL		\$6.26	\$626.00
210	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO LC BID ALLEN TEL		\$6.75	\$675.00
211	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER SC TO MTRJ BID ALLEN TEL		\$3.42	\$342.00
212	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO MTRJ BID ALLEN TEL		\$4.26	\$426.00
213	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO ST BID ALLEN TEL		\$5.90	\$590.00
214	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO SC BID ALLEN TEL		\$5.90	\$590.00
215	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER SC TO SC BID ALLEN TEL		\$5.90	\$590.00
216	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO ST BID ALLEN TEL		\$6.80	\$680.00
217	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO SC BID ALLEN TEL		\$6.80	\$680.00
218	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO LC BID ALLEN TEL		\$7.37	\$737.00
219	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER SC TO MTRJ BID ALLEN TEL		\$3.94	\$394.00
220	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO MTRJ BID ALLEN TEL		\$4.80	\$480.00
221	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER ST TO ST BID ALLEN TEL		\$4.55	\$455.00
222	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER ST TO SC BID ALLEN TEL		\$4.55	\$455.00
223	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO SC BID ALLEN TEL		\$4.55	\$455.00
224	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO ST BID ALLEN TEL		\$5.25	\$525.00
225	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO SC BID ALLEN TEL		\$5.25	\$525.00
226	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO LC BID ALLEN TEL		\$5.90	\$590.00
227	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO MTRJ BID ALLEN TEL		\$2.87	\$287.00
228	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO MTRJ BID ALLEN TEL		\$3.71	\$371.00
229	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER ST TO ST BID ALLEN TEL		\$5.17	\$517.00
230	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER ST TO SC BID ALLEN TEL		\$5.17	\$517.00
231	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER SC TO SC BID ALLEN TEL		\$5.17	\$517.00
232	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO ST BID ALLEN TEL		\$5.88	\$588.00
233	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO SC BID ALLEN TEL		\$5.88	\$588.00

234	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO LC BID ALLEN TEL			\$6.52	\$652.00
235	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER SC TO MTRJ BID ALLEN TEL			\$3.42	\$342.00
236	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO MTRJ BID ALLEN TEL			\$4.26	\$426.00
237	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER ST TO ST BID ALLEN TEL			\$5.80	\$580.00
238	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER ST TO SC BID ALLEN TEL			\$5.80	\$580.00
239	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER SC TO SC BID ALLEN TEL			\$5.80	\$580.00
240	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO ST BID ALLEN TEL			\$6.50	\$650.00
241	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO SC BID ALLEN TEL			\$6.50	\$650.00
242	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO LC BID ALLEN TEL			\$7.15	\$715.00
243	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER SC TO MTRJ BID ALLEN TEL			\$3.94	\$394.00
244	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO MTRJ BID ALLEN TEL			\$4.80	\$480.00
245	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO ST BID ALLEN TEL			\$5.45	\$545.00
246	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO SC BID ALLEN TEL			\$5.45	\$545.00
247	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO SC BID ALLEN TEL			\$5.45	\$545.00
248	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO ST BID ALLEN TEL			\$6.10	\$610.00
249	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO SC BID ALLEN TEL			\$6.10	\$610.00
250	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO LC BID ALLEN TEL			\$6.15	\$615.00
251	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO MTRJ BID ALLEN TEL			\$4.88	\$488.00
252	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO MTRJ BID ALLEN TEL			\$5.70	\$570.00
253	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO ST BID ALLEN TEL			\$6.07	\$607.00
254	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO SC BID ALLEN TEL			\$6.07	\$607.00
255	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO SC BID ALLEN TEL			\$6.07	\$607.00
256	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO ST BID ALLEN TEL			\$6.72	\$672.00
257	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO SC BID ALLEN TEL			\$6.72	\$672.00
258	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO LC BID ALLEN TEL			\$6.77	\$677.00
259	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO MTRJ BID ALLEN TEL			\$5.19	\$519.00
260	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO MTRJ BID ALLEN TEL			\$6.11	\$611.00
261	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO ST BID ALLEN TEL			\$6.60	\$660.00
262	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO SC BID ALLEN TEL			\$6.60	\$660.00
263	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER SC TO SC BID ALLEN TEL			\$6.60	\$660.00
264	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO ST BID ALLEN TEL			\$7.19	\$719.00
265	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO SC BID ALLEN TEL			\$7.19	\$719.00
266	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO LC BID ALLEN TEL			\$7.40	\$740.00
267	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER SC TO MTRJ BID ALLEN TEL			\$5.61	\$561.00

268	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO MTRJ BID ALLEN TEL		\$6.53	\$653.00
269	20	EA	ALLIED TELESYN ST TO RJ45 FEMALE FIBER MEDIA CONVERTER 10/100MEG PART# AT-FS201 OR EQUAL BID ALLIED TELESYN		\$177.00	\$3,540.00
270	20	EA	ALLIED TELESYN CENTRE COM MC13 UTP/FIBER ST 10MBPS MEDIA CONVERTER PART# ATMC13-10 OR EQUAL BID ALLIED TELESYN		\$104.00	\$2,080.00
271	20	EA	TRANSITION NETWORKS ETHERNET 10BASE-T TO 10BASE-FL STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-TBT-FRL-05 OR EQUAL BID TRANSITION NETWORKS		\$113.00	\$2,260.00
272	20	EA	TRANSITION NETWORKS FAST ETHERNET 100BASE-TX TO 100BASE-FX STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-100BTX-FX-05 OR EQUAL BID TRANSITION NETWORKS		\$219.00	\$4,380.00

TOTAL COST OF ALL ITEMS

\$ \$918,252.22

CABLE 11 Statewide Contract

TOTAL EVALUATED BID PRICE SHEET

TOTAL COST OF ALL ITEMS

\$918,252.22

INSIDE DELIVERY CHARGE (Explain)

\$125/Per Hour

Delivery cost includes travel time to and from inside delivery location with 1 hour minimum charge

TOTAL EVALUATED BID PRICE

\$918,252.22

THERE WILL NOT BE A SPLIT AWARD FOR THIS CONTRACT.

RFQ No. CABLE 11

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: GRAYBAR ELECTRIC

Authorized Signature: [Signature] Date: 9-30-10

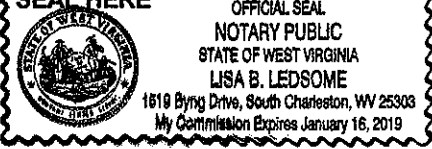
State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 30 day of September, 2010.

My Commission expires 1-16-2019, 2019.

AFFIX SEAL HERE



NOTARY PUBLIC [Signature]

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: GRAYBAR ELECTRIC Signed: Ken Hyg
Date: 9-30-10 Title: Sales Rep

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.