

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Pay 50100 Post Office Box 50130 Charleston, WV 25305-0130

CABLE10

ADDRESS CORRESPONDENCE TO ATTENTION OF

JO ANN ADKINS 304-558-8802

RFQ NUMBER

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

CHARLESTON WV 25301 SHIP T

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

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



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

Request for Quotation

CABLETO

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<u>...</u>

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*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

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS 04/09/2010 BID OPENING DATE: 05/18/2010 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE **AMOUNT** WITH THE BID. REV. 09/21/2009 THIS IS THE END OF REQ CABLE10 ***** TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE ADDRESS CHANGES TO BE NOTED ABOVE

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, APRIL 23, 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
304-558-4115 (Fax)
Jo.a.adkins@wv.gov (Email)

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 can not be waiver. 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. A vendor should bid on all items listed on the attached pricing pages. Vendor must indicate brand 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 shall 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

April 8, 2010

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

<u>Vendors should furnish detailed specifications with descriptive literature with the bid.</u>

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 in quality.

An electronic version of CABLE10 pricing pages can be found at: http://www.state.wv.us/admin/purchase/newbul.htm

Vendor must submit a paper bid with the CABLE10 bid.

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

 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.

- 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 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;
- 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.

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

April 8, 2010

CABLE10

*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 that meet or exceed those of the brand name or equal specifications and features are invited. 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 shall submit descriptive literature and samples must be received no later than 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.

Samples & 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 84 & 85)
- Manufacturers category 6 RJ45 snap-in connectors (Item 86)
- Manufacturers category 6 12-, 24-,48-port copper patch panels (Items 104,105,106,107)



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Request for Quotation

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04/27/ BID OPENING DATE	2010							= O.B.	FREIGHTTERMS
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10	What is the total Term Length of this proposed contract, with extension options?
1A	CABLE10 will be for one (1) year with the two (2) one (1) year renewal terms possible.
2Q	Is the CABLE07 contract usage reports available for all material purchased from June 2007 to present?
2A	Approximately \$400,000.00/yr
3Q	CABLE10 RFQ states that the prices quoted in the vendor(s) quote will not be subject to any increase for the original contract term of one year. The majority of manufactures quotes are only valid for a period of 30 days due to the current price fluctuation in raw material. Therefore most vendor(s) will be unable to extend prices for a period of one year.
3A	Prices are to remain firm for one year.
4Q	CABLE10 RFQ states that vendors intending to bid an alternative product shall submit descriptive literature and samples. These samples must be received no later than five (5) days after the bid opening date. With 323 items on CABLE10 RFQ there is the potential that The Purchasing Division could receive samples of all 323 items from the CABLE10 RFQ from all responding vendors. Is this the intent of CABLE10 RFQ?
4A	No. Only requesting samples for Items 45, 46, 47, 48, 49, 50, 72, 73, 74, 75, 84, 85, 86, 104, 105, 106, 107, 287, 288, 289, 290, 296 & 297 if alternative items are bid.
5Q	CABLE10 RFQ request that samples & literature must be included for each of the following 17 items: Items 45 - 50, 72 - 75, 84 - 86 and 104 - 107 Are samples and literature also required to be included for the following items: Items 76 - 79, 108, 109, 287 - 290, 296 and 297?
5A	See answer to Question 4.
6Q	There is multiple Category 6 specifications included with CABLE10 RFQ for cable, patch panels and connectors. Could you clarify which specifications go with what item on the CABLE10 RFQ pricing pages?
6A	Cat.6 specifications: specs on page 2 of 32 refer to Items 84 & 85; specs on page 3 of 32 refer to Items 104, 105, 106, 107; specs on page 4 of 32 refer to Item 86; specs on page 10 of 32 through 15 of 32 refer to Items 284-286, respectively. specs on page 16 of 32 refer to Items 287 & 288;
	specs on page 17 of 32 refer to Items 289 & 290;

specs on page 18 of 32 refer to Items 296 & 297.
On the pricing pages of CABLE10 RFQ. Items 226 – 249 are duplex fiber optic jumpers, 50/125. Which grade of 50/125 is required?
OM2
On the pricing pages of CABLE10 RFQ. Items 42 – 44 part numbers do not seem to be valid. Who is the manufacture? And are these part numbers correct?
25-Pair Plenum Cat.3 cable equal to Superior Essex 18-475-36 50-Pair Plenum Cat.3 cable equal to Superior Essex 18-579-36 100-Pair Plenum Cat.3 cable equal to Superior Essex 18-799-36
Corrected CABLE10 Pricing Sheets attached.
Is there any way to lower the price increase time frame from 1 year to 6 months? Due to unstable market conditions a time frame of 1 year just doesn't seem reasonable at this time.
See #3.
Is it WV intention to award this to one vendor or several?
One vendor – this will not be split award.

Category 6 Plenum & Non-plenum Cable

REFERS TO ITEMS 84 & 85 ON PRICING SHEETS

Minimum specifications:

Unshielded twisted pair cable tested to 650 MHz and ETL verified to TIA/EIA-568-B.2-1 Category 6. A core separator that isolates the pairs throughout the length of the cable must be included. All plenum cable must be 4X4 plenum construction.

- 28 dB Minimum ACR @ 100 MHz Proven support for Gigabit Ethernet / 1000BASE-T / IEEE 802.3ab, ATM up to 155 Mbps, IEEE 802.3af Power Over Ethernet for VoIP, 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, 1.2 and 2.4 Gbps.
- 13 dB Minimum Improvement in Near End Crosstalk.
- .25 ns/meter Maximum Skew Tightly controlled propagation delay.
- Enhanced Performance Parameters All electrical characteristics proven to exceed TIA/EIA-568-B.2-1 and ISO/IEC 11801 Category 6 requirements: NEXT and ELFEXT (Pair-to-Pair and Power Sum), Insertion Loss, Return Loss, and Delay Skew.

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: 7.8 _/100m (23.8 _/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 _ _ 15% (1-100 MHz)

100 __ 18% (>100-200 MHz)

100 _ _ 22% (>200-350 MHz)

PROPAGATION DELAY: 534 + 36/0f ns/100m MAX

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

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

Category 6 Patch Panels

REFERS TO ITEMS 104, 105, 106, & 107 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 both T568A and 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 T568A and 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 shall follow normal installation color sequence (blue, orange, green, brown) from left to right.

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 T568A and 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.

Category 6 Modular Connectors

REFERS TO ITEM 86 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 shall 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 craftsperson. Connector wiring is universal and will accommodate installation color codes for T568A and T568B wiring schemes. The termination field shall be in the rear for easy access. The modular connector shall fit all other installed telecommunications wallplates, outlets and field-configurable patch panels and patch blocks. Colors and configurations to be specified per schedule on plan.

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, red, vellow, 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 panels.
- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.
- Full selection of colors available, which must include ivory, white, grey, black, orange, blue, 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. All plenum cable must be 4X4 plenum construction.

- 20 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 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 5 HORIZONTAL CABLE

CONDUCTOR DCR: 8,9 _/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: 100 __15% (1-400 MHz)

INPUT IMPEDANCE: 100 __15% (1-100 MHz) 100 __22% (>100-200 MHz)

PROPAGATION DELAY: 506 + 36/Uf ns/100m MAX

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

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

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 both T568A and 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 T568A and 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.

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

FEATURES

- Universal T568A and 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 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 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 shall 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 IDCs against which the wires can be directly terminated and cut in one action. Connector wiring shall be universal and accommodate both T568A and T58B wiring schemes.

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.

Must include full selection of available colors, which include ivory, white, grey, black, orange, blue, 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 panels.
- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.
- Full selection of colors available, which must include ivory, white, grey, black, orange, blue, 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 45 & 46 ON PRICING SHEETS

Minimum specifications:

Unshielded twisted pair cable tested to 200 MHz and ETL verified to Category 5e. 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

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 both T568A and T568B wiring schemes. The modular hardware shall fit all other installed telecommunications wallplates, outlets and field configurable patch panels and patch blocks.

STANDARDS COMPLIANCE

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

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.

Full selection of colors must be made available, which include ivory, white, grey, black, orange, blue, 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 panels.
- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.
- Full selection of colors available, which must include ivory, white, grey, black, orange, blue, 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.

****Pages 10 of 32 thru 15 of 32 refer to items 284 – 286**** Fiber Optic Cable Specifications:

Laser Optimized Multimode 50µm 550 Plenum Building Cable- Supports 550 Meter Channel @ 10 Gb/s

- 1. The cable shall support current and next-generation LAN, SAN, and WAN applications via laser-optimized 50/125-µm optical fibers.
- The cable shall extend the distance of low-cost 850-nm VCSEL-based electronics, supporting 1100 m at 1 Gb/s and 550 m at 10 Gb/s.
- 3. The application suite shall include Ethernet from 10 Mb/s to 10 Gb/s, Fiber Channel from 1 Gb/s to 10 Gb/s, and ATM/SONET/SDH from OC-1 to OC-192.
- 4. All fibers shall be Differential Mode Delay (DMD) tested using a high-resolution test bench that meets or exceeds the FOTP-220 standards and is independently certified by UL®.
- 5. The riser cable shall be constructed with tight buffer fibers, aramid strength yarn, surrounded by a Plenum rated outer jacket.
- 6. The cables shall be designed for point-to-point applications as well as mid-span access, and shall provide a high-level of protection for fiber installed in the building environment.

180 (801)

1640 (500)

7. The cables shall meet the following specifications:

11.0 (27.8)

107 (160)

Physic Fiber Count	al Specifications: Outer Diameter	Weight lbs/ft	Minimum Ben	d Radius	Max. Tensile l	oad	Maximum Vertical Rise
	in.(mm)	(kg/km)	Loaded	Unloaded	Short Term	Long Term	Feet (Meters)
6	0.19 (4.7)	14 (21)	3.7 (9.5)	1.9 (4.7)	300 (1335)	90 (400)	1640 (500)
12	0.22 (5.7)	21 (31)	4.5 (11.4)	2.2 (5.7)	300 (1335)	90 (400)	1640 (500)

5.5 (13.9)

600 (2670)

Environmental and Mechanic	Specification	Test Method
Operating Temperature	-40°to +70°C	FOTP - 3
Installation Temperature	20°to +70°C	N/A
Storage Temperature	-40°to +70°C	N/A
Crush Resistance	44 N/mm	FOTP - 41
Impact Resistance	20 Impacts of 2,94 N.m.	√ FOTP - 25
Flexing	Meets or exceeds	FOTP - 104
Twist Bend	Meets or exceeds	FOTP - 85

Cable Identification: Buffer Tubes and Fibers are identified with standard color coding: 1 - Blue 5 - Slate 9 - Yellow 2 - Orange 6 - White 10 - Violet 3 - Green 7 - Red 11 - Rose 4 - Brown 8 - Black 12 - Aqua

Optical Specifications

24

0.55 (13.9)

	850 nm,max	1300 nm,max
Cabled Attenuation	3.0 dB/km	1.0 dB/km
Bandwidth by OFL	3500 MHz-km	500 MHz-km
Effective Modal Bandwidth	4700 MHz-km*	500 MHz-km
Differential Mode Delay	See Table below	1 0.88 ps/m

^{*} Effective modal bandwidth for laser transmitters compliant to TIA/EIA-492-AAACA Annex C.1, such as those in IEEE 802.3

10-Gigabit Ethernet (10GBASE-S), INCITS 364 10-Gigabit Fiber Channel (1200-MX-SN-I), and OIF-VSR4-04 10-Gigabit SONET/SDH (OC-192 Serial Shortwave).

Table 1 Differential Mode Delay Specifications at 850 nm					
DMD Template DMD Interval Mask					
for R INNER = $0 \mu m$	for radial intervals:				
to ROUTER = 23 μm	7 – 13 μm				
	9 – 15 μm				
	11 – 17 μm				
	13 – 19 μm				
0.14 ps/m,max.	0.11 ps/m,max.				

Armored Laser Optimized Multimode 50µm Metallic Sheath Supports 550 meters - 10Gb/s

1. The cable supports current and next-generation LAN, SAN, and WAN applications via laser-optimized 50/125-µm optical fibers.

 The cable extends the distance of low-cost 850-nm VCSEL-based electronics, supporting 1100 m at 1 Gb/s and 550 m at 10 Gb/s. The application suite includes Ethernet from 10 Mb/s to 10 Gb/s, Fiber Channel from 1 Gb/s to 10 Gb/s, and ATM/SONET/SDH from OC-1 to OC-192.

3. The fibers shall be Differential Mode Delay (DMD) tested using a high-resolution test bench that meets or exceeds the FOTP-220 standards and is independently certified by UI®

4. The Loose Tube Metallic cable shall be armored with a corrugated polymer coated steel tape, and constructed with industry standard 3mm buffer tubes, stranded around a central strength member.

5. The armor layer shall provide added crush protection and shall meet the Telcordia requirements for Superior Armored cable.

6. The buffer tubes shall be compatible with standard hardware, cable routing and fan-out kits.

7. The cable core shall be water blocked with dry water-blocking materials, making access and handling of individual tubes easier and craft-friendly.

8. The cable shall be designed for point-to-point applications as well as mid-span access, and provide a high-level of protection for fiber installed in the outside plant environment.

9. The cable shall meet the following specifications:

Zero Dispersion Slope

Fiber Physical Spo	ecifications
Core Diameter	50 (±2.5)μm
Core Non-Circularity	<=5%
Cladding Diameter	125(±1)µm
Core/Cladding Concentricity Error	<=1.5μm
Cladding Non-Circularity	<=1.0%
Coated Fiber Diameter (uncolored)	245(±10)μm
Coating/Cladding Concentricity Error	<=6μm
Colored Fiber Diameter	245(±7)µm
Proof Test Levels	0.7 GPa minimum
Dynamic Fatigue Parameter	>=18
Macrobending (100 turns on a 75 mm	<=0.5dB @ 850 nm and 130
mandrel)	nm ·
Operating Temperature	- 60 to 85°C
Fiber Optical Spec	
Numerical Aperture	0.200 ± 0.015
Effective Group Index of Refraction @	1.482
850 nm	
Effective Group Index of Refraction @	1.478
1300 nm	•
Point Discontinuities @ 850 nm or 1300	$\leq 0.1 \text{ dB}$
nm .	Overfilled: 3500 MHz-km @
	850 nm
	Overfilled: 500 MHz-
	km @ 1300 nm
Minimum Bandwidth	Laser: 4700 MHz-km
•	@ 850 nm
	Laser: 500 MHz-km
	a@ 1300 nm
	minimum 1297 nm
Zero Dispersion Wavelength	maximum 1316 nm

maximum 1316 nm <=0.101 ps/(nm² km)

Physical Specifications: Fiber Subunits Outer Weight Minimum Bend Max. Tensile Load Max. lbs/kft Count Diameter Radius In. (cm) lbs. (Newtons) Vertical in. (mm) kg/km Short Long Rise Feet Term Loaded Unloaded Term (Meters) 4 - 48 0.46 (11.7) 63 (94) 607 (2700) 180 (800) 2856 (871) 9.2 (23.4) 4.6 (11.7) 0.50 (12.7) 72 6 72 (107) 10.0 (25.4) 5.0 (12.7) 607 (2700) 180 (800) 2509 765) 96 11.5 (29.4) 607 (2700) 180 (800) 1904 (580) 8 0.58 (14.7) 95 (141) 5.8 (14.7) 144 12 0.74 (18.9) 146 (217) 14.8 (37.8) 7.4 (18.9) 607 (2700) 180 (800) 1237 (377) 288 24 0.86 (21.9) 211 (315) 17.2 (43.8) 8.6 (21.9) 607 (2700) 180 (800) 852 (260)

Environmental and Mechanical:

·	Specification	Test Method			
Operating Temperature	-40° to +70°C	FOTP -3			
Installation Temperature	-20° to +70°C	N/A			
Storage Temperature	-40° to +70°C	N/A			
Crush Resistance	44 N/mm	FOTP - 41			
Impact Resistance	Meets or exceeds	FOTP - 25			
Flexing	Meets or exceeds	FOTP - 104			
Twist Bend	Meets or exceeds	FOTP - 85			

Cable Identification:		
Buffer Tubes and	Fibers are identified with standard col	or coding:
1 - Blue	5 - Slate	9 - Yellow
2 - Orange	6 - White	· 10 - Violet
3 - Green	7 - Red	11 - Rose
4 - Brosen	8 - Black	12 - Ama

Buffer tubes 13 through 24 repeat the color sequence with tracer stripe:e.g. fiber 13 is blue with tracer strip

Optical Specifications

	850 nm,max	1300 nm,max
Cabled Attenuation	3.0 dB/km	1.0 dB/km
Bandwidth by OFL	3500 MHz-km	500 MHz-km
Effective Modal Bandwidth	4700 MHz-km*	500 MHz-km
Differential Mode Delay	See Table 1 below	0.88 ps/m

* Effective modal bandwidth for laser transmitters compliant to TIA/EIA-492-AAAC-A Annex C.1, such as those in IEEE 802.3 10-Gigabit Ethernet (10GBASE-S), INCITS 364 10-Gigabit Fiber Channel (1200-MX-SN-I), and OIF-VSR4-04 10-Gigabit SONET/SDH (OC-192 Serial Shortwave.

Table 1 - Differential Mode Delay Specifications at 850 nm

DMD Template	DMD Interval Mask
for Rinner = 0 pm	for radial intervals:
to Router =23 µm	7 - 13 μm
	9 - 15 μm
	11 - 17 μm
· ·	13 - 19 μm
o.14 ps/m,max.	0.11 ps/m,max.
	~

Interlocking Armored Fiber-Optic Riser-Rated Premises Cable (OFCR) approved

Plenum rated

- The plenum rated interlocking armored cable shall be used where additional protection and security is deemed necessary such as: building backbone, zone distribution, raised floor, data centers and storage area networks (SANs)
- The interlocking armor shall support single mode and multimode riser rated cable. Composite riser rated cables, with any combination of sm and mm fibers shall also be supported.
- 3. The manufacturing process shall include application of a steel or aluminum interlocking armor spirally around riser-rated premises distribution cable and then shall be overjacketed with a plenum rated sheath
- 4. The plenum rated sheath shall be color-coded to the fiber type and be printed with all relevant information on the cable contained within.
- 5. The plenum rated sheath shall allow for easier handling and pulling.
- 6. The interlocking armor and fiber cable shall be from a single manufacturer.
- 7. Available fiber counts shall range from 2 to 72, with others available at request.

Environmental and Mechanical:

	Specification	Test Method
Operating Temperature	-20°C to +70°C	FOTP - 3
Installation Temperature	0°C to +70°C	N/A
Storage Temperature	-40°C to +70°C	N/A
Crush Resistance	85 N/mm	FOTP - 41
Impact Resistance	35 N-m	FOTP - 25
Flexing	Meets or exceeds	FOTP - 104
Cable Bend	Meets or exceeds	FOTP - 85

Physical Specifications

Aluminum Armored Plenum Cable:

					Minimum Bend				1	Max.					
Fiber	Outer	Diameter	We	Weight Radius lbs. (Newtons))	Maximum			
Count	in.	(mm)	lbs	s/kft	}	in.	(cm)			•		•	Vertical Rise Feet (Meters		
			(kg	/km)	Ì	:			-		•				
		**			ļ							[
					Lo	aded	Un	loaded	Sho	ort Term	ng Term	1	•		
2	0.56	14.1	100	(148)	11.1	(28.2)	7.8	(19.7)	225	(1,001)	68	(300)	677	(206)	
4	0.56	14.1	103	(154)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	872	(266)	
6	0.56	14.1	106	(158)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	849	(259)	
8.	0.56	14.1.	108	(160)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	836	(255)	
12	0.56	14.1	112	(166)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	806	(246)	
18	0.76	19.2	197	(294)	15.1	(38.4)	10.6	(26.8)	300	(1,335)	90	(400)	456	(139)	
24	0.81	20.4	226	(336)	16.1	(40.9)	11.3	(28.6)	300	(1,335)	90	(400)	398	(121)	
36	0.86	21.7	282	(420)	17.1	(43.4)	12.0	(30.4)	300	(1,335)	90	(400)	319	(97)	
48	0.91	23.0	302	(449)	18.1	(46.0)	12.7	(32.2)	300	(1,335)	90	(400)	298	(91)	
60	1.01	25.5	352	(524)	20.1	(51.1)	14.1	(35.7)	300	(1,335)	90	(400)	255	(78)	
72	1.11	28.1	418	(622)	22.1	(56.1)	15.5	(39.3)	300	(1,335)	90	(400)	215	(66)	
96	1.26	31.9	569	(847)	25.1	(63.8)	17.6	(44.6)	300	(1,335)	90	(400)	158	(48)	

Steel Armored Plenum Cable:

Fiber Count		Diameter (mm)	li	/eight os/kft g/km)		Ra	um Bend dīus (cm)	i			Tensile Lo		Maxi Vertica Feet (N	il Rise
					Lo	oaded	Un	oaded	Sho	Short Term		ng Term	1	-
2	0.56	14,1	157	(233)	11.1	(28.2)	7.8	(19.7)	225	(1,001)	68	(300)	431	(131)
4	0.56	14.1	160	(238)	11.1	(28.2)	7:8	(19.7)	300	(1,335)	90	(400)	562	(171)
6	0.56	14.1	163	(243)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	552	(168)
8	0.56	14.1	165	(245)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	547	(167)
12	0.56	14.1	169	(251)	11.1	(28.2)	7.8	(19.7)	300	(1,335)	90	(400)	534	(163)
18	0.76	19.2	285	(423)	15.1	(38.4)	10.6	(26.8)	300	(1,335)	90	(400)	316	(96)
24	0.81	20.4	321	(477)	16.1	(40.9)	11.3	(28.6)	300	(1,335)	90	(400)	281	(86)
36	0.86	21.7	384	(572)	17.1	(43,4)	12.0	(30.4)	300	(1,335)	90	(400)	234	(71)
48	0.91	23.0	412	(613)	18.1	(46.0)	12.7	(32.2)	300	(1,335)	90	(400)	219	(67)
60	1.01	25.5	476	(709)	20.1	(51.1)	14.1	(35.7)	300	(1,335)	90	(400)	189	(58)
72 .	1.11	28.1	557	(829)	22.1	(56.1)	15.5	(39.3)	300	(1,335)	90	(400)	162	(49)
96	1.26	31.9	730	(1,087)	25.1	(63.8)	17.6	(44.6)	300	(1,335)	90	(400)	123	(38)

Single mode fiber optic Premises Cable – Zero Water Peak – Plenum Interlocking Armored Fiber-Optic Plenum-Rated Premises Cable (OFCR) approved

- 1. The cable shall be available in plenum type.
- 2. The premises cable shall use a standard colored tight buffered construction.
- 3. The higher fiber count cables shall utilize a sub-unitized design with color-coded sub units for easy identification.
- 4. The cable shall deliver a cost-effective upgrade path by expanding the available wavelengths by 50% and allowing up to 18 channels of CWDM (Coarse Wave Division Multiplexing) on a single fiber and up to 400 channels of DWDM (Dense Wave Division Multiplexing) on a single cable.
- 5. The cable shall operate over the entire wavelength range from 1260 nm to 1625 nm, removing the water peak (high attenuation) in the E-band, adding more than 50% in operational wavelength range over conventional single mode fiber.

Core Diameter:	8.3 µm nominal	
Cladding Diameter:	125.0 (± 0.7) μm	
Core/Clad Offset:	< 0.5 μm	
Cladding Non-Circularity:	< 1%	
Coated Fiber Diameter:	245 (± 10) µm	
Cladding/Coating Offset:	< 12 μm	
Colored Fiber Diameter:	254 (± 7) μm	
Proof Test:	0.7 GPa	
Fiber Curl:	> 4 m	
Dynamic Fatigue Parameter:	18 >	
Macrobend (100 turns, 50 mm mandrel):	0.10 dB @ 1310 nm and 1550 nm	
Macrobend (1 turn on a 32 mm mandrel:	0.50 dB @ 1310 nm and @ 1550 nm	

Optical Specifications					
Mode Field Diameter:	9.2 (± 0.3) μm @ 1310 nm 10.4 (nominal) @ 1550 nm				
Group Index of Refraction:	1.466 @ 1310 nm and 1383 (± 3) nm, 1.467 @ 1550 nm				
Attenuation of Tight Buffered Fibers:	0.7 dB/km @ 1310 nm				
	0.7 dB/km @ 1385 nm				
	0.7 dB/km @ 1550 nm				
Maximum Dispersion:	3.5 ps/nm-km @ 1285 to 1330 nm, 18 ps/nm-km @ 1550 nm				
Zero-Dispersion Wavelength:	1300 - 1322 nm				
Zero-Dispersion Slope:	$0.092 \text{ ps/(nm)}^2 \text{km}$				
Polarization Mode Dispersion LDV:	0.08 ps/(km) ^{1/4}				

Physical Characteristics - RISER Rated:

							Min	imum	Bend		Max. I	ensile		Maxii	num
Fiber	Flame	Outer !	Diameter	Weight		Load	ha!	IInl	oaded	Char	Load Term	Lone	- Taum	Vertic	
Coun		in.	mm	lbs/kft	kg/km	in.	cm	in.	cm	ibs.	N	Ibs.	g Terra N	ft	m.
2	Riser	0.16	4.1	8.6	12,9	3.2	8.1	1.6	4.1	225	1001	68	300	1640	500
4	Riser	0.19	4.8	13.1	19	3.8	9.5	2.0	5.1	300	1335	90	400	1640	500
6	Riser	0.20	5.1	15.2	23	4.1	10.3	2.0	5.1	300	1335	90	400	1640	500
8	Riser	0.22	5.5	17.2	26	4.3	11.0	2.2	5.5	300	1335	90	400	1640	500
12	Riser	0.23	5.8	18.8	28	4.6	11.7	2.3	5.8	300	1335	90	400	1640	500
18	Riser	0.48	12.3	99.8	148	9.7	24.6	4.8	12.3	600	2670	180	801	1640	500
24	Riser	0.56	14.1	106.7	159	11.1	28.2	5.6	14.1	. 600	2670	180	801	1640	500
36	Riser	0.56	14.2	118.7	177	11.2	28.4	5.6	14.2	800	3560	240	1068	1640	500
48	Riser	0.62	15.7	126.6	188	12.3	31.3	6.2	15.7	800	3560	240	1068	1640	500
60	Riser	0.70	17.7	170.8	254	13.9	35.3	7.0	17.7	1000	4450	300	1335	1640	500
72	Riser	0.77	19.6	211.2	314	15.4	39.1	7,7	19.6	1000	4450	300	1335	1421	433
96	Riser	0.92	23.4	308.6	459	18.4	46.7	9.2	23.4	1000	4450	300	1335	972	296
144	Riser	1.00	25.3	309.8	461	19.9	50.6	10.0	25.3	1000	4450	300	1335	968	295
T															
	al Character														
2	Plenum	0.15	3.9	8.8	13.1	3.1	7.8	1.5	3.9	225	1001	68	300	1640	500
4	Plenum	0.17	4.4	12.2	18	3.4	8.7	1.7	4.4	300	1335	90	400	1640	500
6	Plenum	0.19	4.8	15.1	22	3.8	9.7	1.9	4.8	300	1335	90	400	1640	500 .
8	Plenum	0.20	5,1	16.8	25	4.0	10.2	2.0	5.1	300	1335	90	400	1640	500
12	Plenum	0.22	5.7	20.8	31	4.5	11.4	2.2	5.7	300	1335	90	400	1640	500
18	Plenum	0.45	11.4	82.5	123	9.0	22.8	4.5	11.4	600	2670	180	801	1640	500
24	Plenum	0.52	13.1	108.1	161	10.3	26.3	5.2	13.1	600	2670	180	801	1640	500
36	Plenum	0.54	13.7	128.4	191	10.8	27.4	5.4	13.7	800	3560	240	1068	1640	500
48	Pienum	0.59	15.1	137.7	205	11.9	30.2	5.9	15.1	800	3560	240	1068	1640	500
60	Plenum	0.68	17.2	189.7	282	13.6	34.4	6.8	17.2	1000	4450	300	1335	1581	482
72	Plenum	0.75	19.1	237.1	353	15.1	38.2	7.5	19.1	1000	4450	300	1335	1265	386
96	Plenum	0.90	23.0	360.8	537	18.1	45.9	9.0	23.0	1000	4450	300	1335	831	253
144	Plenum	0.95	24.1	330.8	492	19.0	48.2	9.5	24.1	1000	4450	300	1335	907	276

****Page 16 of 32 refer to items 287 – 288**** COPPER CABLE SPECIFICATIONS:

Nominal Outer Jacket OD 0.232 in (5.89 mm) 0.224 in (5.69 mm) 0.231 in (5.87 mm)

Nominal Outer Jacket Thickness 0.022 in (0.56 mm) 0.020 in (0.51 mm) 0.020 in (0.51 mm)

Maximum Pulling Tension 25 lbs (11.3 kg) 25 lbs (11.3 kg) 25 lbs (11.3 kg)

Nominal Cable Weight 25.6 lbs/kft 29.1 lbs/1,000 ft 25.0 lbs/kft (38.2 kg/km) (13.2 kg/304.8 m) (39.3 kg/km)

Operating Temperature -4°F to 140°F -4°F to 140°F -4°F to 140°F (-20°C to 60°C) (-20°C to 60°C) (-20°C to 60°C)

Installation Temperature 32°F to 140°F 32°F to 140°F 32°F to 140°F (0°C to 60°C) (0°C to 60°C) (0°C to 60°C)

Conductor Diameter 23 AWG 23 AWG 23 AWG

Jacket Material PVC Low Smoke PVC Low Smoke Zero Halogen

ETL Type CMR CMP

IEC Verified IEC 60332-3

Nominal Velocity of Propagation 69% 71% 69%

Maximum DC Resistance 7.61 Ohms/100 m 7.61 Ohms/100 m 7.61 Ohms/100 m

Maximum DC Resistance Unbalanced 3% 3% 3%

Maximum Mutual 5.6 nF/100 m 5.6 nF/100 m 5.6 nF/100 m

Capacitance at 1 KHz

Minimum Dielectric Strength 1500 VAC or 2500 VDC 1500 VAC or 2500 VDC 1500 VAC or 2500 VDC

Voltage Safety Rating 300 Volts per 300 Volts per 300 Volts per NEC 800.179 NEC 800.179 NEC 800.179

Non-plenum

Cable meet or exceed Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2.

The cable must be ETL listed as Category 6. The cable must feature a thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

Plenum

Cable must meet or exceed Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. The cable must be ETL listed as Category 6. The cable must feature a thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size. The 4-pair must be composed of bare solid copper conductors insulated with Fluorinated-Ethylene-Propylene (FEP). The core of twisted pairs is jacketed with a low smoke PVC. It conforms to the low flame, low smoke requirements of the NEC.

LSZH

Cable must meet or exceed Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2.

The cable must be ETL listed as Category 6. The cable must feature a thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size. 3071E cable is composed of solid copper conductors insulated with non-halogen high-density polyethylene and jacketed with a low smoke zero halogen compound.

****Page 17 of 32 refer to items 289 - 290**** Information Outlet Specifications:

Dimensions	
Depth	30.48 mm 1.20 in
Height	20.32 mm 0.80 in
Width	20.32 mm 0.80 in
Electrical Specifications	
ANSI/TIA Category	· 6
Contact Resistance Variation, maximum	20 mOhm
Contact Resistance, maximum	100 mOhm
,	1.5 A @ 20 °C
Current Rating	1.5 A @ 68 °F
Dielectric Withstand Voltage, RMS, conductive surface	1500 Vac @ 60 Hz
Dielectric Withstand Voltage, RMS, contact-to-contact	1000 Vac @ 60 Hz
Insulation Resistance, minimum	500 MOhm
Environmental Specifications	不能等的。 第二章
Flammability Rating	UL 94 V-0
Operating Temperature	-10 °C to +60 °C (+14 °F to
	+140 °F)
Relative Humidity	Up to 95%, non-condensing
Safety Standard	cUL UL
Storage Temperature	-40 °C to +70 °C (-40 °F to
<u> </u>	+158 °F)
General Specifications	
Cable Type	U/UTP (unshielded)
Color	Blue
Product Type	Outlet
Package, quantity	
Mechanical Specifications	
Conductor Gauge, solid	22 AWG 24 AWG 26 AWG
Conductor Gauge, stranded	22 AWG 24 AWG
Conductor Type	Solid Stranded (7 strands)
description of the second of t	Copper alloy High-impact,
Material Type	flame retardant, thermoplastic
Outlet/Module Contact Plating	Gold over nickel
Plug Insertion Life Test Plug	IEC 60603-7 compliant plug
Plug Insertion Life, minimum	750 times
Plug Retention Force, minimum	30 lbf 133 N
Rear Termination Contact Plating	Gold over nickel
economical control for the control of the control o	IDC
	T568A T568B
Angalang-marana — Manya maganana panga marana sa marana sa sa sa sa sa marana sa br>Sa	The state of the s

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2000	Compliant

****Page 17 of 32 refer to items 296 - 297**** Category 6 U/UTP Copper Patch Panel 48 port with termination manager

Dimensions	
Depth	206.50 mm 8.13 in
Diameter Over Dielectric, maximum	1.168 mm 0.046 in
Diameter Over Dielectric, minimum	0.762 mm 0.030 in
Height	134.37 mm 5.29 in
Width	482.60 mm 19.00 in
Electrical Specifications	
ANSI/TIA Category	6
Current Rating	1.5 A @ 20 °C
-	1.5 A @ 68 °F
Dielectric Withstand Voltage, RMS, conductive surface	1500 Vac @ 60 Hz
Dielectric Withstand Voltage, RMS, contact-to-contact	1000 Vac @ 60 Hz
Insulation Resistance, minimum	500 MOhm
Environmental Specifications	
Flammability Rating	UL 94 V-0
Operating Temperature	-10 °C to +60 °C (+14 °F to +140
Dolotius Ulumiditu	(°F)
Relative Humidity Safety Standard	Up to 95%, non-condensing
Storage Temperature	cUL UL -40 °C to +70 °C (-40 °F to +158 °F)
General Specifications	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Type	LIVITO (vechiolded)
Modules, quantity	U/UTP (unshielded) .8
Product Type	Panel
Total Ports, quantity	48
Color	Black
Package, quantity	1
Rack Type	EIA 19 in
Rack Units	2
Mechanical Specifications	
Conductor Gauge, solid	22 AWG 24 AWG 26 AWG
Conductor Gauge, stranded	22 AWG 24 AWG
Conductor Type	Solid Stranded (7 strands)
Agricultural Symphotogram and Agricultura and The Symphotogram (also a constraint of the constraint of	High-impact, flame retardant,
Material Type	thermoplastic Powder-coated
CAPACITICAL AND ALARMA THE SAME AND ALARMA THE	steel
Outlet/Module Contact Plating	Gold over nickel
Plug Insertion Life Test Plug	IEC 60603-7 compliant plug
Plug Insertion Life, minimum	750 times
Plug Retention Force, minimum	30 lbf 133 N
Rear Termination Contact Plating	Gold over nickel
Rear Termination Type	IDC
Wiring	T568A T568B
	· · · · · · · · · · · · · · · · · · ·

Regulatory Compliance/Certifications

Agency	
RoHS 2002/95/EC	Compliant
ISO 9001:2000	Compliant



TITLE

RFQ COPY

TYPE NAME/ADDRESS HERE

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

Request for Quotation

CABLE10

PAGE

JO ANN ADKINS 304-558-8802

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

ADDRESS CORRESPONDENCE TO ATTENTION OF

ADDRESS CHANGES TO BE NOTED ABOVE

FREIGHTTERMS FOB, DATE PRINTED TERMS OF SALE SHIP VIA 04/29/2010 BID OPENING DATE: BID OPENING TIME 01:30PM 05/18/2010 CAT. NO UNIT PRICE AMOUNT QUANTITY ITEM NUMBER LINE UOP ADDENDUM NO. 2 ***** CABLE10 PRICING PAGES AVAILABLE ELECTRONICALLY. AN ELECTRONIC VERISON OF THE CABLE10 PRICING PAGES CAN BE FOUND AT: WWW.STATE.WV. US/ADMIN/QURCHASE/NEWBUT.HTM VENDORS MUST SUBMIT A HAPER BID WITH THE CABLE10 BID. THE PAPER BIT COPY SHALL PREVAIL IF ANY DIFFERENCES EXISTS BETWEEN THE ELECTRONIC COPY AND THE PAPER COPY SUBMITTED. END OF ADDENDUM NO. 2 SEE REVERSE SIDE FOR TERMS AND CONDITIONS TELEPHONE SIGNATURE

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.
- 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).

ITEM NUM.	BID Quantity	Unit	Description	See other page ***	Unit Price	Extension Price
1	50	ĘΑ	PLASTIC CABLE TIES; 7 15/16" IN LENGTH, 100PK 3-M PART # 3-M06226 OR EQUAL BID 3M	ungu	\$6.16	\$308.00
2	200	EA	VELCRO TYRAP WIRE TIES; 8" IN LENGTH; HELLERMAN TYTON PART # GT50X80P2 OR EQUAL BID		7 01110	
	200		PANDUIT		\$0.5731	\$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		\$3.61	\$722.00
5	50	EΑ	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	ĒΑ	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 3M		\$20.11	\$603.30
9	10	EA	3M WIRE MARKER DISPENSER 0 THRU 9 ON A ROLL		\$22.19	\$221.90
10	30	ΕA	3-M PART # STD-0-9 (FILLED) OR EQUAL BID 3M 3M WIREMARKER NUMBER REFILL FOR STD-0-9			
11	30	FΔ	NUMBER 0 PART# SDR-0 OR EQUAL BID 3M 3M WIREMARKER NUMBER REFILL FOR STD-0-9		\$1.40	\$42.00
			NUMBER 1 PART# SDR-1 OR EQUAL BID 3M 3M WIREMARKER NUMBER REFILL FOR STD-0-9		\$1.40	\$42.00
12	30	EA	NUMBER 2 PART# SDR-2 OR EQUAL BID 3M 3M WIREMARKER NUMBER REFILL FOR STD-0-9		\$1.40	\$42.00
13	30	ĒΑ	NUMBER 3 PART# SDR-3 OR EQUAL BID 3M 3M WIREMARKER NUMBER REFILL FOR STD-0-9		\$1.40	\$42.00
14	30	EA	NUMBER 4 PART# SDR-4 OR EQUAL BID 3M		\$1.40	\$42.00
15	30		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	-A 1	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 7 PART# SDR-7 OR EQUAL BID 3M		\$1.40	\$42.00
18	30	- A − I	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 8 PART# SDR-8 OR EQUAL BID 3M		\$1.40	\$42.00
19	30	+A 1	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 9 PART# SDR-9 OR EQUAL BID 3M		\$1.40	\$42.00
20	100	FΔ	ADJUSTABLE CABLE SUPPORT; ERICO PART#CAT425 OR EQUAL BID ERICO		\$10.90	\$1,090.00
			PHILLIPS HEAD 3/4" LONG 10-32 RACK SCREWS		\$10.00	\$1,000.00
21	20	EA	W/WASHERS 100PK MIDDLE ATLANTIC PRODUCTS PART # HP OR EQUAL BID		644.04	*****
			DATATEL VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS		\$14.81	\$296.20
22	20		GREAT LAKES PART# 1984-VCM OR EQUAL MOUNTING HARDWARE INCLUDED BID GREAT LAKES		\$179.68	\$3,593.60
23	20		VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS CHATSWORTH PART# 12096-703 OR EQUAL			
			MOUNTING HARDWARE INCLUDED BID CHATSWORTH VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS	1	\$241.21	\$4,824.20
24	20	EA	AFCO SYSTEMS PART# ASTCTRG84 OR EQUAL MOUNTING HARWARE INCLUDED BID CHATSWORTH		\$270.72	\$5,414.40
25	20		VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS SOUTHWEST PART# SWE2729BLK OR EQUAL		`	· · · · · · · · · · · · · · · · · · ·
20	20		MOUNTING HARDWARE INCLUDED BID CHATSWORTH		\$270.72	\$5,414.40
		Į.	DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY]	
26	40	1	20" IN WIDTH; & 84" HEIGHT GREAT LAKES PART# GLRR-1984BA OR EQUAL BID			
			CHATSWORTH DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK		\$98.84	\$3,953.60
27	40		MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY 20" IN WIDTH; & 84" HEIGHT.			
			CHATSWORTH PART# 46353-703 OR EQUAL BID		\$185.23	\$7,409.20
28	10	4	I8" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL48SR OR EQUAL BID GREAT			
		ı	AKES 6" WALL MOUNT SWING OUT RACK;		\$173.28	\$1,732.80
29	10	EA C	GREAT LAKES PART # GL36SR OR EQUAL BID GREAT		\$159.60	£4 E00 00
		2	AKES 14" WALL MOUNT SWING OUT RACK;		V0.801 &	\$1,596.00
30	10		GREAT LAKES PART # GL24SR OR EQUAL BID GREAT AKES		\$143.63	\$1,436.30

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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 FRONT DOOR, PERFORATED 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. PART# XDP84-3-1S0046 OR EQUAL BID BELDEN/X-MARK	\$2,326.00	\$23,260.0(
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 FRONT DOOR, PERFORATED 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. PART# XDP72-3-150012 OR EQUAL BID BELDENIX-MARK	\$2,231.00	\$22,310.00
33	10	EA	84" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR WILOCK; UPPER HALF LOUVERED STEEL REAR DOOR WILOCK; SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS WIBRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER 8 12' CORD; CASTERS; 84"H X 29" W X 36" D; GREAT LAKES PART # 840E-2936WVCC OR EQUAL BID GREAT LAKES	\$2,195.00	\$21,950.00
34	10	EA	72" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS 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 GREAT LAKES	\$2,007.00	\$20,070.00
35	5	EA	48" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS 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	\$1,245.00	\$6,225.00
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 TPE-29F 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 PANDUIT	\$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 PANDUIT	\$1.52	\$1,520.00
40	1000	FĪ	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 2 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 045-LD00 OR EQUAL BID PANDUIT	\$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 PANDUIT	\$2.18	\$2,180.00
42	20,000	FT	25 PAIR PLENUM CATEGORY 3 CABLE PART# Superior Essex p/n 18-475-36 or equal BID BERK- TEK	\$0.5800	\$11,600.00
43	20,000	FT	50 PAIR PLENUM CATEGORY 3 CABLE PART# Superior Essex p/n 18-579-36 or equal BID BERK- TEK	\$1.17	\$23 <u>,</u> 400.00
44	20,000	FT	100 PAIR PLENUM CATEGORY 3 CABLE PART# Superior Essex p/n: 18-799-36 or equal BID BERK- TEK	\$2.38	\$47,600.00
45	100,000	FT	CAT. 5e MIN COMPLIANT PVC CABLE; NON-PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57554 OR EQUAL BID MOHAWK *EXPLANATION & SPECIFICATION SHEET ATTACHED	\$0.081520	\$8,152.00

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46	200,000	FT	CAT. 5e MIN COMPLIANT CABLE; PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57547 OR EQUAL BID MOHAWK *EXPLANATION & SPECIFICATION SHEET ATTACHED	***	\$0.13586	. \$27,172.00
47	3000	EA	QUICK PORT 8P8C MODULAR RJ45 JACKS FOR CAT5e MIN COMPLIANT; WHITE IN COLOR; LEVITON PART # 5G108-RW5 OR EQUAL BOD LEGITOR' EXPLANATION & SPECIFICATION SHEET ATTACHED	***	\$1.96	\$5,880.00
48	200,000	ĖΤ	CAT. 5E ENHANCED CABLE; NON-PLENUM RISER RATED; REEL IN A BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56167 OR EQUAL BID MOHAWK *EXPLANATION & SPECIFICATION SHEET ATTACHED	k ing.	\$0.09565	\$19,130,00
49	300,000	FT	CAT. 5E ENHANCED CABLE; PLENUM; REEL IN A BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56168 OR EQUAL BID MOHAWK *EXPLANATION & SPECIFICATION SHEET ATTACHED	***	\$0.18409	\$55,227.00
50	3,000	EA	LEVITON QUICKPORT 8P8C MODULAR RJ45 JACKS FOR CAT5E ENHANCED; ORANGE IN COLOR; LEVITON PART # 5G110-RO5 OR EQUAL BID LEVITON *EXPLANATION & SPECIFICATION SHEET ATTACHED	±62	\$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 QUKTRON		\$1.37	\$274.00
52	200	EA	CAT 5E ENHANCED 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-003 OR EQUAL BID QUKTRON		\$0.53	\$106.00
53	200	EA	CAT 5E ENHANCED 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-005 OR EQUAL BID QUIKTRON		\$0.71	\$142.00
54	200	EA	CAT 5E ENHANCED 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-007 OR EQUAL BID QUIKTRON		\$0.87	\$174.00
55	200	EA	CAT 5E ENHANCED 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-010 OR EQUAL BID QUIKTRON		\$1.15	\$230.00
56	200	EA	CAT 5E ENHANCED 14FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-014 OR EQUAL BID QUIKTRON		\$1.50	\$300.00
57	200	EA	CAT 5E ENHANCED 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-025 OR EQUAL BID QUIKTRON		\$2.53	\$506.00
58	100	EA	CAT 5E ENHANCED 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-050 OR EQUAL BID QUIKTRON		\$4.78	\$478.00
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 BID QUIKTRON	:	\$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 BID QUIKTRON		\$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* OR EQUAL * - COLOR BID LEVITON		\$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* OR EQUAL *- COLOR BID LEVITON		\$1.79	\$1,790.00
63	2000		CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 7 FOOT LENGTH; LEVITON PART# 5G460-07* OR EQUAL *- COLOR BID LEVITON		\$2.02	\$4,040.00
64	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 10 FOOT LENGTH; LEVITON PART# 5G460-10* OR EQUAL * - COLOR BID LEVITON		\$2.40	\$2,400.00
65	1000	EΑ	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 15 FOOT LENGTH; LEVITON PART# 5G460-15* OR EQUAL * - COLOR BID LEVITON	·	\$3.07	\$3,070.00

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. 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			
	-	<u> </u>	JACKET BID QUIKTRON CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO		\$2.52	\$1,260.0
67	100	EA	RJ45M BOOTED; NON-KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET BID QUIKTRON		\$4.78	\$478.0
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 BID QUIKTRON LEVITON QUICKPORT HIGH DENSITY 48-PORT PATCH		\$9.34	\$934.0
69	50	EA	PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H48 OR EQUAL BID LEVITON		\$43.14	\$2,157.0
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	\$1,581.5
71	50	EA	LEVITON QUICKPORT HIGH DENSITY 12-PORT PATCH PANEL PART#49255-H89 OR EQUAL BID LEVITON		\$8.90	\$445.F
72	100	EA	LEVITON 48-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART# 5G596-U48 OR EQUAL *EXPLANATION & SPECIFICATION SHEET ATTACHED BID		\$0.90	\$445.0
		-	LEVITON LEVITON 24-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH	***	\$138.13	\$1 3,813.0
73	100	EA	PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U24 OR EQUAL; BID LEVITON	***	#e0.07	****
74	50	EA	*EXPLANATION & SPECIFICATION SHEET ATTACHED LEVITON 12-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U12 OR EQUAL; BID LEVITON		\$69.07	\$6,907.0
			*EXPLANATION & SPECIFICATION SHEET ATTACHED LEVITON 12-PORT 8P8C RJ45 CAT5E WALL MT. PATCH	***	\$51.56	\$2,578.0
75	50	EA	PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U89 OR EQUAL; BID LEVITON *EXPLANATION & SPECIFICATION SHEET ATTACHED	***	\$37.38	\$1,869.0
76	100	EA	SIEMON 48-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-48 OR EQUAL BID SIEMON			
77	50	EA	SIEMON 24-PORT PATCH PANEL; MUST BE CAT.5E		\$190.10	\$19,010.00
78	20	EΑ	CERTIFIED; SIEMON #HD5-24 OR EQUAL BID SIEMON SIEMON 16-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-16 OR EQUAL BID SIEMON		\$95.06 \$77.23	\$4,753.00 \$1,544.60
79	20	EΑ	SIEMON 12-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-89D-12 OR EQUAL BID SIEMON		\$51.80	\$1,036.0
80	200	EΑ	SIEMON RACK MT. 1U WIRE MANAGER PART# \$110-RWM-01 OR EQUAL BID SIEMON		\$19.06	
81	20	EA	SIEMON WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; SIEMON WM-144-5 OR EQUAL BID SIEMON	<u> </u>	\$27.93	\$3,812.00 \$558.60
82	20	EA	2-POSITION HINGED FIXED BRACKETS FOR WALL; DATATEL PART # HPM-2 OR EQUAL BID DATATEL		\$31.10	\$622.00
83	100	EA	WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; DATATEL PART # HCM-1D OR EQUAL BID DATATEL			
84	200,000	FT	CAT 6 ENHANCED CABLE; NON-PLENUM; REEL IN A BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57202 OR EQUAL BID MOHAWK	***	\$24.07	\$2,407.00
85	300,000	FT	*EXPLANATION & SPECIFICATION SHEET ATTACHED CAT 6 ENHANCED CABLE; PLENUM; REEL IN A BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57193 OR EQUAL BID MOHAWK	***	\$0.15760	\$31,520.00
86	5000	EA	*EXPLANATION & SPECIFICATION SHEET ATTACHED QUICKPORT CAT6 EXTREME 8P8C RJ45 SNAP-IN CONNECTOR; BLUE IN COLOR; LEVITON PART # 61110-RL6 OR EQUAL BID LEVITON *EXPLANATION & SPECIFICATION SHEET ATTACHED	***	\$0.26956 \$4.02	\$80,868.00 \$20,100.00
87	100	EA	CAT 6 EXTREME 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-001 OR EQUAL BID QUIKTRON		\$2.88	\$288.00
	200	EΑ	CAT 6 EXTREME 3FT CROSSOVER CABLE RED IN COLOR			422300

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89	100	EA	CAT 6 EXTREME 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-005 OR EQUAL BID QUIKTRON		\$3.47	\$347.0
90	200	EA	CAT 6 EXTREME 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-007 OR EQUAL BID QUIKTRON		\$3.77	\$754.0
91	200	EA	CAT 6 EXTREME 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-010 OR EQUAL BID QUIKTRON		\$4.21	\$842.0
92	200	EA	CAT 6 EXTREME 15FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-015 OR EQUAL BID QUIKTRON		\$4.95	\$990.00
93	100	EA	CAT 6 EXTREME 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-025 OR EQUAL BID QUIKTRON		\$6.43	\$643.00
94	50	EA	CAT 6 EXTREME 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-050 OR EQUAL BID QUIKTRON		\$10.12	\$506.00
95	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 BID QUIKTRON		\$2.96	\$592.00
96	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 BID QUIKTRON		\$2.88	\$576.00
97	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 3 FOOT LENGTH; BID LEVITON LEVITON PART # 62460-03* OR EQUAL * - COLOR		\$2.35	\$940.00
98	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 5 FOOT LENGTH; BID LEVITON LEVITON PART # 62460-05* OR EQUAL *- COLOR		\$2.92	\$1,168.00
99	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 7 FOOT LENGTH; BID LEVITON LEVITON PART # 62450-07* OR EQUAL * - COLOR		\$3.54	\$1,416.00
100	200	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 10 FOOT LENGTH; BID LEVITON LEVITON PART # 62460-10* OR EQUAL * - COLOR		\$4.12	\$824.00
101	100	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 15 FOOT LENGTH; BID LEVITON LEVITON PART # 62460-15* OR EQUAL * - COLOR		\$5.18	\$518.00
102	50	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 20 FOOT LENGTH; BID LEVITON LEVITON PART # 62460-20* OR EQUAL *- COLOR		\$6.29	\$314.50
103	50	EΑ	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET BID QUIKTRON		\$5.38	\$269.00
104	50	EA	LEVITON 48-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U48 OR EQUAL BID LEVITON *EXPLANATION & SPECIFICATION SHEET ATTACHED		\$202.19	\$10,109.50
105	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	
106	50	EA	*EXPLANATION & SPECIFICATION SHEET ATTACHED LEVITON 12-PORT PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U12 OR EQUAL BID LEVITON	***		\$5,131.50
107	50	EA	*EXPLANATION & SPECIFICATION SHEET ATTACHED LEVITON 12-PORT 8P8C RJ45 CAT6 WALL MT. PATCH PANEL; MUST BE CAT6 ENHANCED CERTIFIED; LEVITON PART # 69586-U89 OR EQUAL BID LEVITON		\$67.04	\$3,352.00
108	50	EA	*EXPLANATION & SPECIFICATION SHEET ATTACHED SIEMON 48-PORT PATCH PANEL; MUST BE CAT 6 CERTIFIED; SIEMON# HD6-48 OR EQUAL BID SIEMON	***	\$62.53 \$221.68	\$3,126.50 \$11,084.00
109	50	EA	SIEMON 24-PORT PATCH PANEL; MUST BE CAT 6 CERTIFIED; SIEMON# HD6-24 OR EQUAL BID SIEMON		\$110.84	\$997.56
110	1000	EA	2-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-2*P OR EQUAL *- COLOR BID LEVITON		\$1.22	\$997.56 \$1,220.00
111	100		LEVITION 4-PORT SURFACE MOUNT BOX; LEVITION PART # 41089-4*P OR EQUAL *- COLOR BID LEVITION		\$2,28	\$1,220.00 \$228.00
112	100	ĿΑ	SINGLE GANG IVORY BLANK WALL PLATE; LEVITON PART# 86014 OR EQUAL BID LEVITON		\$0.20	\$20.00
113	100	ŁΑ	SINGLE GANG WHITE BLANK WALL PLATE; LEVITION PART# 88014 OR EQUAL BID LEVITON		\$0.20	\$20.00
114	100	EA	QUICKPORT STAINLESS STEEL FLUSH WALLPHONE WALLPLATE; LEVITON PART# 4108W-0SP OR EQUAL BID LEVITON		\$5.87	\$587.00

		1	1-PORT WALLPLATES:	·····	
115	500	EA	LEVITON PART # 41080-1*P OR EQUAL * - COLOR BID LEVITON	\$0.94	\$470.00
116	. 1000	EA	2-PORT WALLPLATES; LEVITON PART # 41080-2*P OR EQUAL * - COLOR BID LEVITON	\$0.94	\$940.00
117	100	£Α	3-PORT WALLPLATES; LEVITON PART # 41080-3*P OR EQUAL * - COLOR BID LEVITON	\$0.94	\$94.00
118	100	EA	4-PORT WALLPLATES; LEVITON PART # 41080-4*P OR EQUAL * - COLOR BID LEVITON	\$0.94	\$94.00
119	50	EA	6-PORT WALLPLATES; LEVITON PART # 41080-6*P OR EQUAL * - COLOR BID LEVITON	\$0.94	\$47.00
120	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 CORNING	\$2.18	\$10,900.00
121	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
122	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 CORNING	\$0.86	\$4,300.00
123	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 CORNING	\$0.45	\$2,250.00
124	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 CORNING	\$3.46	\$17,300.00
125	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 CORNING	\$2.28	\$11,400.00
126	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 CORNING	\$1.05	\$5,250.00
127	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	\$0.67	\$3,350.00
128	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX48-105D-WLS/900-OFCR-IAD OR CORNING PART # 048KWF-T4130DA1 OR EQUAL BID		
129	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX24-085D-WLS/900-OFCR-IAD OR CORNING PART # 024K8F-31130-A1 OR EQUAL BID	\$2.18	\$10,900.00
130	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX12-065D-WLS/900-OFCR-IAD OR CORNING PART # 012K8F-31130-A1 OR EQUAL BID CORNING	\$2.38	\$11,900.00 \$7,100.00
131	5000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX06-055D-WLS/900-OFCR-IAD OR CORNING PART # 006K8F-31130-A1 OR EQUAL BID CORNING	\$0.98	\$4,900.00
132	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX48-095K-WLS/900-OFCP-IAK OR CORNING PART # 048KWP-T4130DA1 OR EQUAL BID	\$4.61	\$23,050.00
133	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX24-070K-WLS/900-OFCP-IAK OR CORNING PART # 024K8P-31130-A3 OR EQUAL BID		\$23,000.00
	1		CORNING	\$3.11	\$15,550.00

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134	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX12-060K-WLS/900-OFCP-IAK OR CORNING PART # 012K8P-31130-A3 OR EQUAL BID CORNING	\$167	
135	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	\$1.67	\$8,350.00
			CORNING PART # 006K8P-31130-A3 OR EQUAL BID CORNING	\$1.17	\$5,850.00
136	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 CORNING	\$1.59	\$4,770.00
137	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	V 1.00	\$4,770.00
138	3000	FT	CORNING FIBER OPTIC CABLE 6-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX06-090A-WLS/900-JGS OR	\$0.94	\$2,820.00
ļ			CORNING PART # 006KWA-T4130D20 OR EQUAL BID CORNING	\$0.59	\$1,770.00
139	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		
			CORNING FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR MULTIMODE 50/125	\$1.96	\$5,880.00
140	3000	FT	OCC PART # DX024-085D-ALS/900-OFNR OR CORNING PART # 024C8F-31131-24 OR EQUAL BID CORNING	\$1.32	\$3,960.00
141	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 CORNING	\$0.74	\$2,220.00
142	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		92,220.00
			CORNING FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 50/125	\$0,40	\$1,200.00
143	3000	FT	OCC PART # DX048-095K-ALS/900-OFNP OR CORNING PART # 048CWP-T4131D20 OR EQUAL BID CORNING	\$3.16	\$9,480.00
144	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 CORNING	\$2.14	00.100.00
145	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		\$6,420.00
146	3000	FT	CORNING 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 CORNING	\$1.03 \$0.63	\$3,090.00 \$1,890.00
147	3000	FT	FIBER OPTIC CABLE 48-STRAND VO 50UM MULTIMODE ARMORED OCC PART # DX48-105D-ALS/900-OFCR-IAD OR CORNING PART # 048CWF-T4131DA1 OR EQUAL BID CORNING	\$3.41	\$10,230.00
148	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX24-085D-ALS/900-OFCR-IAD OR CORNING PART # 024C8F-31131-A1 OR EQUAL BID CORNING	\$2.92	\$8,760.00
149	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O 50UM MULTIMODE ARMORED OCC PART# DX12-065D-ALS/900-OFCR-IAD OR CORNING PART # 012C8F-31131-A1 OR EQUAL BID	<u> </u>	32, 3320
			CORNING	\$1.33	\$3,990.00

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150	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX06-055D-ALS/900-OFCR-IAD OR CORNING PART # 006C8F-31131-A1 OR EQUAL BID	\$0.93	#0.700.00
151	3000	FT	CORNING FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX48-095K-ALS/900-OFCP-IAK OR CORNING PART # 048CWP-T4131DA1 OR EQUAL BID	\$0.93	\$2,790.00
152	3000	FT	CORNING FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX24-070K-ALS/900-OFCP-IAK OR CORNING PART # 024C8P-31131-A3 OR EQUAL BID	\$4.30	\$12,900.00
153	3000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX12-060K-ALS/900-OFCP-IAK OR CORNING PART # 012C8P-31131-A3 OR EQUAL BID	\$2.92	\$8,760.00
154	3000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX06-050K-ALS/900-OFCP-IAK OR CORNING PART # 006C8P-31131-A3 OR EQUAL BID CORNING	\$1.67	\$5,010.00 \$3,360.00
155	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 CORNING	\$0.71	\$2,130.00
156	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 CORNING	\$0.71	\$2,130.00
157	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
158	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 CORNING	\$0.41	\$1,230.00
159	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 CORNING	\$0.29	\$870.00
160	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 CORNING	\$1.22	\$3,660.00
1 61	3000	Fī	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 CORNING	\$0.69	\$2,070.00
162	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 CORNING	\$0.48	\$1,440.00
163	3000	Fī	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
164	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
165	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
166	3000		FIBER OPTIC CABLE 24-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX24-070K-SLX/900-OFCP-IAK OR CORNING PART # 024E8P-31131-A3 OR EQUAL BID	\$2.48	92,400.00

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167	3000	Fī	FIBER OPTIC CABLE 12-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 6, D Colon ACC OCC PART # DX12-060K-SLX/900-OFCP-IAK OR		
			CORNING PART # 012E8P-31131-A3 OR EQUAL	\$1.3	6 \$4,080.00
168	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX06-050K-SLX/900-OFCP-IAK OR CORNING PART # 006E8P-31131-A3 OR EQUAL BID CORNING	\$1.1:	3 \$3,390.00
169	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-OFCP-IAK OR	V 1.1x	y \$3,390.00
├ ─		 	EQUAL BID CORNING FIBER OPTIC HYBRID CABLE 48 FIBER ARMORED PLENUM	\$11.93	\$23,860.00
170	2000	FT	COATED (24 STRAND MULTI-MODE 50/125 & 24 STRAND SINGLEMODE 9/125) OCC PART # DX48-095K-24ALS-24SLX/900-OFCP-IAK OR CORNING PART # 048XWP-T41XXD20 OR EQUAL BID		
171	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-OFCP-IAK OR CORNING PART # 024X8P-311XX-A3 OR EQUAL BID CORNING	\$3.18	
172	2000	EA	SIECOR SC MM 62.5UM CONNECTORS, PART # 95-000-40		
173	1000	EA	OR EQUAL BID CORNING SIECOR ST MM 62.5UM CONNECTORS, PART # 95-000-50	\$6.56	
174	500	EA	OR EQUAL BID CORNING SIECOR SC MM 50UM CONNECTORS, PART# 95-050-41 OR	\$6.56	\$6,560.00
H		 	EQUAL BID CORNING SIECOR ST MM 50UM CONNECTORS, PART# 95-050-51 OR	\$8.93	\$4,465.00
175	500	EA	EQUAL BID CORNING	\$8.93	\$4,465.00
176	500	EA	SIECOR SC SM CONNECTORS, PART# 95-200-41 OR EQUAL BID CORNING	\$10.00	\$5,000.00
177	500	EA	SIECOR ST SM CONNECTORS, PART# 95-200-51 OR EQUAL BID CORNING	\$10.00	\$5,000.00
178	20	EA	SIGNAMAX 1U RACKMOUNT FIBER ENCLOSURE SIGNAMAX PART# SL2M-B OR EQUAL BID SIGNAMAX	\$80.52	\$1,610.40
179	20	EA	SIGNAMAX 2U RACKMOUNT FIBER ENCLOSURE SIGNAMAX PART# UFE4-B OR EQUAL BID SIGNAMAX	\$149.70	
180	20	EA	SIGNAMAX 3U RACKMOUNT FIBER ENCLOSURE		
181	20	EA	SIGNAMAX PART# UFE6-B OR EQUAL BID SIGNAMAX SIGNAMAX 6-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-06STM OR EQUAL BID	\$172.39	
182	20	EA	SIGNAMAX SIGNAMAX 6-PORT SC MWSM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-06SCM OR EQUAL BID SIGNAMAX	\$14.74 \$16.15	
183	20	EA	SIGNAMAX 8-PORT ST MWSM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-08STM OR EQUAL BID		
184	20	EA	SIGNAMAX SIGNAMAX 8-PORT SC MWSM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-08SCM OR EQUAL BID SIGNAMAX	\$17.86 \$11,119.56	\$357.20 \$222,391.20
185	20	· EA	SIGNAMAX 12-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-B-12ST OR EQUAL BID SIGNAMAX	\$23.81	\$476.20
186	20	EA	SIGNAMAX 12-PORT SC MWSM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-B-12SC OR EQUAL BID SIGNAMAX	\$22.68	\$453.60
187	20	EA	SIGNAMAX BLANK PLASTIC MODULE; FITS RACK MOUNT ENCLOSURES SIGNAMAX PART # UFE-W-BL OR EQUAL BID SIGNAMAX	\$3.97	\$79.40
188	20	EA	LEVITON 1U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R1UA-A03 OR EQUAL BID LEVITON	\$78.60	\$1,572.00
189	20	ĒΑ	LEVITON 2U RACKMOUNT FIBER ENCLOSURE		
190	20	-Δ	LEVITON PART# 5R2UA-A06 OR EQUAL BID LEVITON LEVITON 3U RACKMOUNT FIBER ENCLOSURE LEVITON	\$103.94	\$2,078.80
			PART# 5R3UA-A12 OR EQUAL BID LEVITON LEVITON SMALL EMPTY FIBER WALL MOUNT ENCLOSURE	\$138,50	\$2,770.00
191	20	EA	ONLY 8"HIGH X 13"WIDE X 3.5"DEEP LEVITON PART# 5W110-00N OR EQUAL BID LEVITON	\$52.87	\$1,057.40

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192	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
400			LEVITON LARGE EMPTY FIBER WALL MOUNT ENCLOSURE		
193	. 20	EA	ONLY 17" HIGH X 15" WIDE X 5.25" DEEP LEVITON PART# 5W710-00N OR EQUAL BID LEVITON	\$153.83	\$3,076.6
		1	LEVITON ST FIBER 6-PACK TO FIT EITHER WALL MOUNT	V 100.00	\$0,07010
194	50	EA	OR RACKMOUNT ENCLOSURES ONLY		
ļi		-	LEVTION PART# 5F100-1ST OR EQUAL BID LEVION LEVITON SC FIBER 6-PACK TO FIT EITHER WALL MOUNT	\$17.31	\$865.50
195	50	EA	OR RACKMOUNT ENCLOSURES ONLY		
			LEVTION PART# 5F100-3SC OR EQUAL BID LEVITON	\$19.50	\$975.00
196	50	EΑ	LEVITON BLANK 6-PACK FOR FIBER ENCLOSURES	60.70	****
			LEVITON PART# 5F100-BPP OR EQUAL BID LEVITON LEVITON SC FIBER 8-PACK TO FIT EITHER WALL MOUNT	\$2.72	\$136.00
197	50	EA	OR RACKMOUNT ENCLOSURES		
			LEVITON PART# 5F100-8SC OR EQUAL BID LEVITON	\$20.55	\$1,027.5
198	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
199	50	EA	SIECOR ST CONNECTOR PANEL,	20100	
			PART # WIC-CP1-25 OR EQUAL BID CORNING SIECOR SC CONNECTOR PANEL.	\$24.33	\$1,216.50
200	50	EΑ	PART # WIC-CP1-56 OR EQUAL BID CORNING	\$24.33	\$1,216.50
201	30	EΑ	SIECOR WALL MOUNT FIBER ENCLOSURE,		
201	\$ 0	- 25	PART # WIC-012 OR EQUAL BID CORNING	\$38.67	\$1,160.10
202	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER ST TO ST BID QUIKTRON	\$4.87	\$487.00
203	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	7.13	
203	100	EA.	1 METER ST TO SC BID QUIKTRON	\$4.87	\$487.00
204	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO SC BID QUIKTRON	\$4.87	\$487.00
205	100	F.	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	ψ-1.07	φ+07.00
205	100	EA	1 METER LC TO ST BID QUIKTRON	\$5.71	\$571.00
206	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO SC BID QUIKTRON	\$5.71	\$571.00
007	400		DUPLEX FIBER OPTIC JUMPERS, 62.5/125	ψ0.71	\$67 F.60
207	100	EA	1 METER LC TO LC BID QUIKTRON	\$6.56	\$656.00
208	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO MTRJ BID QUIKTRON	\$2.87	\$287.00
	400		DUPLEX FIBER OPTIC JUMPERS, 62.5/125	ψ2.67	\$201.00
209	100	EA	1 METER LC TO MTRJ BID QUIKTRON	\$3.71	\$371.00
210	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO ST BID QUIKTRON	f= 40	#F+0.00
-			2 METER ST TO ST BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$5.42	\$542.00
211	100	EA	2 METER ST TO SC BID QUIKTRON	\$5.42	\$542.00
212	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	PE 40	#540.00
			2 METER SC TO SC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$5.42	\$542.00
213	100	EA	2 METER LC TO ST BID QUIKTRON	\$6.26	\$626.00
214	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	00.00	****
-+			2 METER LC TO SC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$6.26	\$626.00
215	100	EA	2 METER LC TO LC BID QUIKTRON	\$7.12	\$712.00
216	100	EΑ	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	*** 40	
			2 METER SC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$3.42	\$342.00
217	100		2 METER LC TO MTRJ BID QUIKTRON	\$4.26	\$426.00
218	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
			3 METER ST TO ST BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$5.94	\$594.00
219	100		3 METER ST TO SC BID QUIKTRON	\$5.94	\$594.00
220	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
	.,,,,		3 METER SC TO SC BID QUIKTRON	\$5.94	\$594.00
221	100	PA 1	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO ST BID QUIKTRON	\$6.80	\$680.00
222	100		DUPLEX FIBER OPTIC JUMPERS, 62.5/125	75.50	400000
	100		3 METER LC TO SC BID QUIKTRON	\$6.80	\$680.00
223	100	- A	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO LC BID QUIKTRON	\$7.65	\$765.00
224	100		DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$7,00	4.00.00
224	100		3 METER SC TO MTRJ BID QUIKTRON	\$3.94	\$394.00
225	100	⊢Δ I	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO MTRJ BID QUIKTRON	\$4.80	\$480.00
	465		DUPLEX FIBER OPTIC JUMPERS, 50/125	\$4.60	φ4ου.UU
226	100	EA .	1 METER ST TO ST BID QUIKTRON	\$4.87	\$487.00
227	100	FA I	DUPLEX FIBER OPTIC JUMPERS, 50/125	6.4.0 ™	
441		ľ	1 METER ST TO SC BID QUIKTRON	\$4.87	\$487.00
228	100		DUPLEX FIBER OPTIC JUMPERS, 50/125		

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229	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO ST BID QUIKTRON	\$5.71	\$571.00
230	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO SC BID QUIKTRON	\$5.71	\$571.00
231	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO LC BID QUIKTRON	\$6.57	\$657.00
232	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO MTRJ BID QUIKTRON	\$2.87	\$287.00
233	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO MTRJ BID QUIKTRON	\$3.71	\$371.00
234	100	EΑ	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER ST TO ST BID QUIKTRON	\$5.42	\$542.00
235	100	ĒΑ	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER ST TO SC BID QUIKTRON	\$5.42	\$542.00
236	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER SC TO SC BID QUIKTRON	\$5.42	\$542.00
237	100	ΕA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO ST BID QUIKTRON	\$6.26	\$626.00
238	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO SC BID QUIKTRON	\$6.26	\$626.00
239	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125		
240	100	EA	2 METER LC TO LC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$7.12	\$712.00
241	100	EA	2 METER SC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$3.42	\$342.00
242	100	EA	2 METER LC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$4.26	\$426.00
243	100	EΑ	3 METER ST TO ST BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$5.94	\$594.00
			3 METER ST TO SC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$5.94	\$594.00
244	100	EA	3 METER SC TO SC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$5.94	\$594.00
245	100	EA	3 METER LC TO ST BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$6.80	\$680.00
246	100	EA	3 METER LC TO SC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$6.80	\$680.00
247	100	EA	3 METER LC TO LC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$7.65	\$765.00
248	100	EA	3 METER SC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 50/125	\$3.94	\$394.00
249	100	EA	3 METER LC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$4.80	\$480.00
250	100	EA	1 METER ST TO ST BID QUIKTRON	\$5.77	\$577.00
251	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO SC BID QUIKTRON	\$5.77	\$577.00
252	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO SC BID QUIKTRON	\$5.77	\$577.00
253	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO ST BID QUIKTRON	\$6.36	\$636.00
254	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO SC BID QUIKTRON	\$6.36	\$636.00
255	100	ĿΑ	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO LC BID QUIKTRON	\$6.95	\$695.00
256	100	-A	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO MTRJ BID QUIKTRON	\$4.78	\$478.00
257	100	- A	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO MTRJ BID QUIKTRON	\$5.70	\$570.00
258	100	-A 1	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO ST BID QUIKTRON	\$6.18	\$618.00
259	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO SC BID QUIKTRON	\$6.18	\$618.00
260	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO SC BID QUIKTRON	\$6.18	\$618.00
261	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO ST BID QUIKTRON	\$6.78	\$678.00
262	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO SC BID QUIKTRON	\$6.36	\$636.00
263	100	FΔ	DUPLEX FIBER OPTIC JUMPERS, 9/125	\$7.37	
264	100	FΔ	2 METER LC TO LC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125		\$737.00
265	100	FΔ	2 METER SC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$5.19	\$519.00
266	100	FΔ	2 METER LC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$6.11	\$611.00
267	100	EΔ I	3 METER ST TO ST BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$6.60	\$660.00
		- 1	METER ST TO SC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$6.60	\$660.00
268	100		METER SC TO SC BID QUIKTRON	\$6.60	\$1,768.80

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	1	1 -	DUPLEX FIBER OPTIC JUMPERS, 9/125		· · · · · · · · · · · · · · · · · · ·
269	100	EA	3 METER LC TO ST BID QUIKTRON	\$7.19	\$719.00
270	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO SC BID QUIKTRON	\$6.36	\$636.00
271	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125	67.70	4770 0
	400		3 METER LC TO LC BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$7.79	\$779.00
272	100	EA	3 METER SC TO MTRJ BID QUIKTRON DUPLEX FIBER OPTIC JUMPERS, 9/125	\$5.61	\$561.00
273	100	EA	3 METER LC TO MTRJ BID QUIKTRON	\$6.53	\$653.00
274	20	EA	KENTROX CSU/DSU T1 TO ETHERNET EXTENDER PART# 4020CE OR EQUAL BID KENTROX	\$295.00	\$5,900.00
	1		ALLIED TELESYN ST TO RJ45 FEMALE FIBER MEDIA		
275	20	EA	CONVERTER 10/100MEG PART# AT-FS201 OR EQUAL BID ALLIED TELESYN	\$199.56	\$3,991.20
276	20	EA	ALLIED TELESYN CENTRE COM MC13 UTP/FIBER ST 10MBPS MEDIA CONVERTER PART# ATMC13-10 OR EQUAL		
276	20	- 2	BID ALLIED TELESYN	\$118.45	\$2,369.00
			TRANSITION NETWORKS ETHERNET 10BASE-T TO 10BASE-FL STAND-ALONE MEDIA CONVERTER;		
277	20	EA	TRANSITION NETWORKS PART# E-TBT-FRL-05 OR EQUAL	P402.24	\$0.4CC.00
			BID TRANSITION NETWORKS TRANSITION NETWORKS FAST ETHERNET 100BASE-TX TO	\$123.31	\$2,466.20
278	20	EA	100BASE-FX STAND-ALONE MEDIA CONVERTER;		
			TRANSITION NETWORKS PART# E-100BTX-FX-05 OR EQUAL BID TRANSITION NETWORKS	\$243.10	\$4,862.00
270	10	ΕΛ	Systimax 600G2-1U-MOD-SD 600G2 Modular Shelf, 1U, Slide PART# 760028324		
279	10	EA	BID SYSTIMAX BID SYSTIMAX	\$142.76	\$1,427.60
280	10	EA	Systimax RS-2AF-16SF RoloSplice Kit E/W 2x Fusion Splice Tray 1U Shelf PART# 760039867		
	,,,		BID SYSTIMAX BID SYSTIMAX	\$30.43	\$304.30
281	10	EA	Systimax 600G2-2U-MOD-SD 600G2 Modular Shelf, 2U, Slide PART# 760032086		
	,,,	<u> </u>	BID SYSTIMAX BID SYSTIMAX	\$183.55	\$1,835.50
282	10	EA	Systimax RS-4AF-16SF RoloSplice Kit E/W 4x Fusion Splice Tray 2U Shelf PART# 760031856		
			BID SYSTIMAX BID SYSTIMAX	\$26.34	\$263.40
283	20	EA	Systimax MODG2-12LC-SM-PT G2 Module_12LC TeraSPEED Pigtails PART# 760031039		
			BID SYSTIMAX BID SYSTIMAX	\$188.65	\$3,773.00
284	20	EA	Systimax MODG2-12LC-LS-PT G2 Module_12LC LazrSPEED 550 Pigtails PART# 760027748		
			BID SYSTIMAX BID SYSTIMAX Systimax 12 Strand / Single-mode Armoured Fiber Optic Cable	\$194.48	\$3,889.60
285	5000	EΑ	PART# 760004358-APYL		
			BID SYSTIMAX BID SYSTIMAX Systimax 12 Strand / Multi-mode Armoured Fiber Optic Cable	\$1.68	\$8,400.00
286	5000	EA	PART# 700009731-APAQ		
			BID SYSTIMAX BID SYSTIMAX Systimax 2071E Category 6 Gigaspeed XL Plenum Cable,	\$2.07	\$10,350.00
287	150,000	EA	Yellow PART# 700210123	#0 20070	#50.450.00
		.	BID SYSTIMAX BID SYSTIMAX Systimax 2071E Category 6 Gigaspeed XL Plenum Cable, Blue	\$0.38972	\$58,458.00
288	150,000	EA	PART# 700208093	\$0.38972	\$58,458.00
			BID SYSTIMAX BID SYSTIMAX Systimax MGS400 Info. Outlet, MGS400-318 Blue PART#	\$0.50912	\$30,430.00
289	2500	EA	700206758 BID SYSTIMAX BID SYSTIMAX	\$6.03	\$15,075.00
			Systimax MGS400 Info. Outlet, MGS400-123 Yellow PART#	ψ0.03	ψ13,573.00
290	2500	EA	700206691 BID SYSTIMAX BID SYSTIMAX	\$6.03	\$15,075.00
			Systimax M12L-003 2 Port Faceplate Ivory PART#	ψ0.00	410,070.00
291	400	EΑ	108168477 BID SYSTIMAX BID SYSTIMAX	\$1.34	\$536.00
-			Systimax M14L-003 4 Port Faceplate Ivory PART#		
292	300	EA	108168550 BID SYSTIMAX BID SYSTIMAX	\$1.34	\$402.00
			Systimax M60DA-318 Blue ICON		
293	2000	EA	PART# 107296709 BID SYSTIMAX BID SYSTIMAX	\$0.0974	\$194.80
	0000		Systimax M60DA-123 Yellow ICON PART#		
294	2000	EA	107296667 BID SYSTIMAX BID SYSTIMAX	\$0.0974	\$194.80
-00-	252		Systimax M106FR4-003 4 Port 106 Frame PART#		
295	350		106627763 BID SYSTIMAX BID SYSTIMAX	\$1.78	\$623.00
200			Systimax PM-GS3-48: 48 Port Patch Panel PART#		
296	50		760062364 BID SYSTIMAX BID SYSTIMAX	\$385.00	\$19,250.00

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297	50	EA	Systimax PM-GS3-24: 24 Port Patch Panel PART# 760062356 BID SYSTIMAX BID SYSTIMAX	\$192.50	\$9,625.00
<u> </u>		—	HARGER 1/4" X 2" X 12" TGB KIT	ψ192.00	\$8,025.00
298	10	EA	PART# GBI14212TGBKT BID HARGER BID HARGER	\$74.19	\$741.90
200	- 00] _{-,}	HARGER RACK GROUND BAR KIT		
299	20	EA	PART# RGBVKIT145836A BID HARGER BID HARGER	\$47.41	\$948.20
		1	Hubbell System 1 Poke Thru Unit PART#		•
300	50	EA	S1PTAVFIT BID HUBBELL BID HUBBELL	\$109.08	\$5,454.00
			Hubbell System 1 Universal Cover Brass	7,00,00	40,100
301	50	EA	PART# S1CFCBRS BID WIREMOLD BID WIREMOLD	\$74.35	\$3,717.50
	†	†	Hubbell System 1 Subplate Double Duplex PART#	¥14.00	\$3,717.00
302	50	EA	S1SPDU BID HUBBELL BID HUBBELL	\$22.55	** ***
<u> </u>	 	1	Hubbell 4 Port 106 Frame Black PART#	\$22.55	\$1,127.50
303	50	EA	BR106B	24.50	
		 	BID HUBBELL BID HUBBELL Hubbell Snap-Fit Blank 10 Pack Black PART#	\$1.56	\$78.00
304	10	ĒΑ	SFFB10		
		 	BID HUBBELL BID HUBBELL Wiremold Flamestopper 2" Unit PART#	\$3.45	\$34.50
305	15	EA	FS2R-Red BID		
		<u> </u>	WIREMOLD BID WIREMOLD	\$84.98	\$1,274.70
306	20	EA	Wiremold Flamestopper 4" Unit PART# FS4R-Red BID		
	ļ		CHATSWORTH BID CHATSWORTH	\$110.01	\$2,200.20
307	10	EΑ	Chatsworth Evolution g1 Single-Sided Vertical Wire Manager PART# 35511-703		
			BID CHATSWORTH BID CHATSWORTH	\$398.35	\$3,983.50
200	10	A	Chatsworth Evolution g1 Fiber Segregation Kit PART# 35475-701		
308	10	EA	BID CHATSWORTH BID CHATSWORTH	\$73.63	\$736.30
			Chatsworth Evolution g1 Spool Kit, Black PART# 15008-001		
309	20	EΑ	BID CHATSWORTH BID CHATSWORTH	\$51.85	\$1,037.00
			Chatsworth Evolution g2 EDouble-Sided Vertical Wire Manager	70.00	\$1,007.00
310	15	EA	PART# 35521-703 BID CHATSWORTH BID CHATSWORTH	\$536.93	\$8,053.95
		 	Chatsworth CCS Double-Sided Vertical Wire Manager	φοσο.σσ	\$6,005. 3 5
311	10	EΑ	PART# 30162-703 BID CHATSWORTH BID CHATSWORTH	\$304.50	52.045.00
			Chatsworth Spool Kit, Black PART#	\$304.30	\$3,045.00
312	20	ĒΑ	15008-001 BID		
			CHATSWORTH BID CHATSWORTH	\$47.70	\$954.00
313	10	EA	Brady IDXPERT Labels Catalog # XC-1500-580 - WT-BK BID BRADY BID BRADY	\$55.88	\$558.80
314	10	EA	Brady IDXPERT Labels Catalog # XC-1500-580 -WT-RD BID BRADY BID BRADY	CEE 00	
315	10	EA	Brady IDXPERT Labels Catalog # XC-1000-580 - GN-WT	\$55.88	\$558.80
J10	10		BID BRADY BID BRADY	\$47.28	\$472.80
316	10	EA	Brady IDXPERT Labels Catalog # XC-1000-580 - BL-WT BID BRADY BID BRADY	\$47.28	\$472.80
317	10	EA	Brady IDXPERT Labels Catalog # XC-1000-580 - YL-BK BID BRADY BID BRADY	\$47.28	\$470.00
318	10	EA	Brady IDXPERT Labels Catalog #XC-500-580 - BL-WT	\$41.ZO	\$472.80
713	10		BID BRADY BID BRADY	\$37.58	\$375.80
319	10	EA	Brady IDXPERT Labels Catalog # X-30-422 BID BRADY BID BRADY	\$46.20	\$462.00
320	50	EA	Brady IDXPERT Labels Catalog # XSL-31-427 BID BRADY BID BRADY	\$45.12	\$2,256.00
321	50	EA	Brady IDXPERT Labels Catalog # XSL-31-427 - YL-BK		
	15		BID BRADY BID BRADY HELLERMAN TYTON PART # GWT003X2 OR EQUAL BID	\$49.42	\$2,471.00
322	10	PK	HELLERMAN TYTON	\$4.97	\$49.70
323	10	PK	HELLERMAN TYTON PART # CT2012X2 OR EQUAL BID HELLERMAN TYTON	\$34.59	\$345.90
			TOTAL COST OF ALL ITEMS		\$1,548,176.23

CABLE 10 Statewide Contract TOTAL EVALUATED BID PRICE SHEET

TOTAL COST OF ALL ITEMS

\$1,548,176.23

INSIDE DELIVERY CHARGE (Explain) \$6.20 per 100lb Min Charge of \$75.00

TOTAL EVALUATED BID PRICE \$1,548,176.23

THERE WILL NOT BE A SPLIT AWARD FOR THIS CONTRACT.

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.

sloader 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 confinuously 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 confinuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor with has an affiliate or subsidiary which employs a minimum of one hundred state resident 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 who certifies that, during the life of the contract, on average the seat 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state confinuously for the two years immediately preceding submission of this bid; or, 4. Application is made for 3.5% 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;	7.	Application is made for 2.5% resident vendor preference for the reason checked:
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 inherest 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 resident 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 who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate to 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 3.5% 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, Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or, Bidder is an individual resident vendor who i		Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-
business confinuously 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 control crident 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 with who expended 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 3.5% 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, 4. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,		
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 nornesident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state resident 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 nornesident 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 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 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 57% of the employees or Bidder's animidual resident vendor who is a vertain of the reason checked: B		blodder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of
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 minimum of one hundred state residents who average at least 75% of the employees or Bidder is 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, Application is made for 3.5% resident vendor who is a veteran for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or, Application is made for 3.5% resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard in the submitted; or, 6. Application is made for 3.5% r		business continuously in west virginia for four (4) years immediately preceding the date of this certification; or 80% of the
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 resident 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 meats either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or, Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a ensident wendor 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 nindivi	•	ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has
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 a 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 is 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 is a minimum of one hundred state 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, Application is made for 3.5% resident vendor 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 Application is made for 3.5% resident vendor or hor purphase or		rnaintained its neadquarters or principal place of business continuously in West Virginia for four (4) years immediately
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 a nindividual 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 commod		preceding the date of this certification; or,
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REQ No. CABLE 10

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: CFAHBAN ELECTRIC Authorized Signature: Law Hay Date: 51818 State of W V County of Kanawha, to-wit: Taken, subscribed, and sworn to before me this [Budday of May , 2010. My Commission expires Jan. 16 , 2019. AFFIX SEAL HERE NOTARY PUBLIC ROTARY PUBLIC

STATE OF WEST VIRGINIA LISA B. LEDSOME 1519 Byrng Drive, South Charleston, WV 25303 My Commission Expires January 16, 2019