



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

Request for Quotation

RFQ NUMBER
CABLE10

PAGE
1

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

3000000

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/09/2010				

BID OPENING DATE: 05/18/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUEST FOR QUOTATION						
<p>THE PURCHASING DIVISION IS SOLICITING QUOTATIONS FOR THE OFFICE OF TECHNOLOGY DIVISION OF THE DEPARTMENT OF ADMINISTRATION TO ESTABLISH A BLANKET OPEN-END STATEWIDE CONTRACT TO PROVIDE COMPUTER DATA CABLE (COPPER/FIBER) AND FITTINGS FOR ALL WEST VIRGINIA STATE AGENCIES AND POLITICAL SUBDIVISIONS.</p> <p>***** INQUIRIES</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON FRIDAY, APRIL 23, 2010. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>JO ANN ADKINS DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25526 FAX: 304.558.4115 E-MAIL: JO.A.ADKINS@WV.GOV</p> <p>*****</p> <p>RELEASE OF RFQ..... 04/09/2010 VENDOR'S WRITTEN QUESTIONS SUBMISSION DEADLINE (CLOSE OF BUSINESS).... 04/23/2010 RESPONSE TO QUESTIONS/ADDENDUM ISSUED 04/29/2010</p>						

RECEIVED

2010 MAY 18 P 12:19

PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Jo Ann Adkins</i>	TELEPHONE 304-768-3600	DATE 5-18-10
TITLE Purchasing Manager	FEIN 55-038-4235-001	ADDRESS CHANGES TO BE NOTED ABOVE

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



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TITLE Database Manager	FEIN 55-038-4235-001	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UCP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING DATE..... 05/18/2010 ATTACHMENTS: 1. SPECIFICATIONS "CABLE10" DATED 04/08/2010 2. CABLE10 PRICING PAGES 3. PURCHASING AFFIDAVIT 4. RESIDENT VENDOR PREFERENCE						
0001	1	EA		285-10		1,425,459. ⁶⁰
CABLE ACCESSORIES, ELECTRIC PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD. EXHIBIT 10 REQUISITION NO.: ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO M						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *David V. ...* TELEPHONE: **304-768-3600** DATE: **5-18-10**

TITLE: **DATAcom MANAGER** FEIN: **55-038-4235-001** ADDRESS CHANGES TO BE NOTED ABOVE

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



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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.		
				ADDENDUM NO.'S:		
				NO. 1		
				NO. 2		
				NO. 3		
				NO. 4		
				NO. 5		
				I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.		
				VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.		
			 SIGNATURE		
			 COMPANY		
			 DATE		
				NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Denise O'Keefe</i>	TELEPHONE 304-768-3600	DATE 5-18-10
TITLE CUSTOMER MANAGER	FAX 35-038-4235-001	ADDRESS CHANGES TO BE NOTED ABOVE

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



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BID OPENING DATE: 05/18/2010	BID OPENING TIME: 01:30PM
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
WITH THE BID.						
REV. 09/21/2009						
***** THIS IS THE END OF RFQ CABLE10 ***** TOTAL:						1,425,459. ⁶⁰ 1,359

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>James V. ...</i>	TELEPHONE 304-768-3600	DATE 5-18-10
TITLE Datacom Manager	FEIN 55-038-4235-001	ADDRESS CHANGES TO BE NOTED ABOVE

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

CABLE10
Specifications/Information

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

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

**WRITTEN QUESTIONS MUST BE RECEIVED NO LATER THAN CLOSE OF
BUSINESS ON FRIDAY, 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

**CABLE10
Specifications/Information**

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

Vendors should furnish detailed specifications with descriptive literature with the bid.

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

1. The cost per item (supplied by the vendor) must include delivery to the building dock and/or loading area designated by the ordering state agency.

CABLE10
Specifications/Information

2. All materials ordered in Charleston, or any destination point in between Charleston-Huntington, Charleston-Beckley, Charleston-Parkersburg, and or Charleston-Clarksburg by any other agency other than the Office of Technology, must be delivered within 5 business days after receipt of the order.
3. All materials ordered by the Office of Technology must be delivered to the Capitol Complex in the following timeframes after the receipt of the order (the exact delivery location will be provided when the order is placed):
 - a) If total for materials ordered is \$1,000 or below – delivery must be within two (2) business hours;
 - b) If total for materials ordered is greater than \$1,000, but less than \$5,000 –delivery must be within two (2) business days;
 - c) If total for materials ordered is greater than \$5,000 – delivery must be within five (5) business days.
4. If an ordering agency requests delivery of materials to another "inside" area of the building other than the dock and/or loading area, the vendor shall supply a cost (including an explanation of how this cost was calculated) on the pricing pages to complete this "inside" delivery. For example, if DNR orders a cabinet through the contract and they request and pay for "inside delivery" to their 8th floor closet, then the vendor/delivery company will be responsible for delivery of the cabinet to the 8th floor closet and not be permitted to simply deliver the cabinet to the building loading dock.

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

II. Subcontracts /Joint Ventures

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

III. Vendor Reporting

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

1. Name of the ordering state agency;
2. Materials ordered; and

CABLE10
Specifications/Information

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

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)

Category 6 Plenum & Non-plenum Cable

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:

MEETS OR 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 Ω /100m (23.8 Ω /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 \pm 15% (1-350 MHz)

INPUT IMPEDANCE:

100 \pm 15% (1-100 MHz)

100 \pm 18% (>100-200 MHz)

100 \pm 22% (>200-350 MHz)

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

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

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

Category 6 Patch Panels

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

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 craftsman. 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, yellow, green, purple, almond, and brown.

DESIGN SPECIFICATIONS

- For use in any Category 6 housing to support Category 6 UTP connectivity in surface mount, flush mount, or modular furniture outlets and field configurable 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

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 Ω /100m (27.1 Ω /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 \pm 15% (1-400 MHz)

INPUT IMPEDANCE:

100 \pm 15% (1-100 MHz)

100 \pm 22% (>100-200 MHz)

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

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

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

Category 5E Patch Panels

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

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 T568B 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

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

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.

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.
2. 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 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.
7. The cables shall meet the following specifications:

Physical Specifications:

Fiber Count	Outer Diameter in.(mm)	Weight lbs/ft (kg/km)	Minimum Bend Radius in.(cm)		Max.Tensile Load lbs.(Newtons)		Maximum Vertical Rise Feet (Meters)
			Loaded	Unloaded	Short Term	Long Term	
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)
24	0.55 (13.9)	107 (160)	11.0 (27.8)	5.5 (13.9)	600 (2670)	180 (801)	1640 (500)

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	20 Impacts of 2.94 N.m.	FOTP - 25
Flexing	Exceeds	FOTP - 104
Twist Bend	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

	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± 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 for ^R INNER = 0 µm to ^R OUTER = 23 µm	DMD Interval Mask for radial intervals: 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 50 μ m 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- μ m optical fibers.
2. 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 exceeds the FOTP-220 standards and is independently certified by UL®.
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:

Fiber Physical Specifications	
Core Diameter	50 (\pm 2.5) μ m
Core Non-Circularity	\leq 5%
Cladding Diameter	125(\pm 1) μ m
Core/Cladding Concentricity Error	\leq 1.5 μ m
Cladding Non-Circularity	\leq 1.0%
Coated Fiber Diameter (uncolored)	245(\pm 10) μ m
Coating/Cladding Concentricity Error	\leq 6 μ m
Colored Fiber Diameter	245(\pm 7) μ m
Proof Test Levels	0.7 GPa minimum
Dynamic Fatigue Parameter	\geq 18
Macrobending (100 turns on a 75 mm mandrel)	\leq 0.5dB @ 850 nm and 1300 nm
Operating Temperature	- 60 to 85°C
Fiber Optical Specifications	
Numerical Aperture	0.200 \pm 0.015
Effective Group Index of Refraction @ 850 nm	1.482
Effective Group Index of Refraction @ 1300 nm	1.478
Point Discontinuities @ 850 nm or 1300 nm	\leq 0.1 dB
Minimum Bandwidth	Overfilled: 3500 MHz-km @ 850 nm Overfilled: 500 MHz-km @ 1300 nm Laser: 4700 MHz-km @ 850 nm Laser: 500 MHz-km @ 1300 nm
Zero Dispersion Wavelength	minimum 1297 nm maximum 1316 nm
Zero Dispersion Slope	\leq 0.101 ps/(nm ² km)

Physical Specifications:

Fiber Count	Subunits	Outer Diameter in. (mm)	Weight lbs/kft kg/km	Minimum Bend Radius		Max. Tensile Load lbs. (Newtons)		Max. Vertical Rise Feet (Meters)
				Loaded	Unloaded	Short Term	Long Term	
				In. (cm)	In. (cm)			
4 - 48	5	0.46 (11.7)	63 (94)	9.2 (23.4)	4.6 (11.7)	607 (2700)	180 (800)	2856 (871)
72	6	0.50 (12.7)	72 (107)	10.0 (25.4)	5.0 (12.7)	607 (2700)	180 (800)	2509 (765)
96	8	0.58 (14.7)	95 (141)	11.5 (29.4)	5.8 (14.7)	607 (2700)	180 (800)	1904 (580)
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	Exceeds	FOTP - 25
Flexing	Exceeds	FOTP - 104
Twist Bend	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

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 for R _{inner} = 0 μm to R _{outer} = 25 μm	DMD Interval Mask for radial intervals:
	7 - 13 μm
	9 - 15 μm
	11 - 17 μm
	13 - 19 μm
0.14 ps/m, max.	0.11 ps/m, max.

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

Plenum rated

1. 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)
2. 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 over-jacketed 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	Exceeds	FOTP - 104
Cable Bend	Exceeds	FOTP - 85

Physical Specifications

Aluminum Armored Plenum Cable:

Fiber Count	Outer Diameter in. (mm)		Weight lbs/kft (kg/km)		Minimum Bend Radius in. (cm)				Max. Tensile Load lbs. (Newtons)				Maximum Vertical Rise Feet (Meters)	
									Short Term		Long Term			
					Loaded		Unloaded							
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	Outer Diameter in. (mm)		Weight lbs/ft (kg/km)		Minimum Bend Radius in. (cm)				Max. Tensile Load lbs. (Newtons)				Maximum Vertical Rise Feet (Meters)	
					Loaded		Unloaded		Short Term		Long Term			
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**

- The cable shall be available in plenum type.
- The premises cable shall use a standard colored tight buffered construction.
- The higher fiber count cables shall utilize a sub-unitized design with color-coded sub units for easy identification.
- 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.
- 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.

Physical Specifications:

Core Diameter:	8.3 μ m nominal
Cladding Diameter:	125.0 (\pm 0.7) μ m
Core/Clad Offset:	< 0.5 μ m
Cladding Non-Circularity:	< 1%
Coated Fiber Diameter:	245 (\pm 10) μ m
Cladding/Coating Offset:	< 12 μ m
Colored Fiber Diameter:	254 (\pm 7) μ m
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 (\pm 0.3) μ m @ 1310 nm 10.4 (nominal) @ 1550 nm
Group Index of Refraction:	1.466 @ 1310 nm and 1383 (\pm 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 ps/(nm) ² km
Polarization Mode Dispersion LDV:	0.08 ps/(km) ^{1/2}

Physical Characteristics - RISER Rated:

Fiber Count	Flame Rating	Outer Diameter		Weight		Minimum Bend				Max. Tensile Load		Maximum			
		in.	mm	lbs/kt	kg/km	Loaded in.	Loaded cm	Unloaded in.	Unloaded cm	Short Term lbs.	Short Term N	Long Term lbs.	Long Term N	Vertical ft	Vertical 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

Physical Characteristics - PLENUM Rated

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	Plenum	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

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 meets or exceeds 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 meets or exceeds 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 meets or exceeds 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.

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
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 °F)
Relative Humidity	Up to 95%, non-condensing
Safety Standard	cUL UL
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

General Specifications

Cable Type	U/UTP (unshielded)
Color	Blue
Product Type	Outlet
Package, quantity	1

Mechanical Specifications

Conductor Gauge, solid	22 AWG 24 AWG 26 AWG
Conductor Gauge, stranded	22 AWG 24 AWG
Conductor Type	Solid Stranded (7 strands)
Material Type	Copper alloy High-impact, 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
Rear Termination Type	IDC
Wiring	T568A T568B

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

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 °F)
Relative Humidity	Up to 95%, non-condensing
Safety Standard	cUL UL
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

General Specifications

Cable Type	U/UTP (unshielded)
Modules, quantity	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)
Material Type	High-impact, flame retardant, thermoplastic Powder-coated 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	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2000	Compliant



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

Request for Quotation

RFQ NUMBER
CABLE10

PAGE
1

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

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/27/2010				

BID OPENING DATE: **05/18/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
1. CABLE10 REVISED PRICING PAGES, ATTACHED.						
2. QUESTIONS AND ANSWERS, ATTACHED.						
***** END OF ADDENDUM NO. 1 *****						
0001	1	EA	285-10	CABLE ACCESSORIES, ELECTRIC		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Neil Adkins</i>	TELEPHONE 304-768-3000	DATE 5-18-10
TITLE Datacom Manager	FEBIN 55-038-4235-001	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

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

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

INSTRUCTIONS TO BIDDERS

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



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

Request for Quotation

RFQ NUMBER
CABLE10

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
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 304-558-8802

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
04/29/2010				

BID OPENING DATE: **05/18/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>***** ADDENDUM NO. 2 *****</p> <p>1. CABLE10 PRICING PAGES AVAILABLE ELECTRONICALLY.</p> <p>NOTE: AN ELECTRONIC VERISON OF THE CABLE10 PRICING PAGES CAN BE FOUND AT: WWW.STATE.WV.US/ADMIN/PURCHASE/NEWBUT.HTM</p> <p>VENDORS MUST SUBMIT A PAPER BID WITH THE CABLE10 BID. THE PAPER BID COPY SHALL PREVAIL IF ANY DIFFERENCES EXISTS BETWEEN THE ELECTRONIC COPY AND THE PAPER COPY SUBMITTED.</p> <p>***** END OF ADDENDUM NO. 2 *****</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-768-3600	DATE 5-18-10
TITLE NATION MANAGER	FEIN 55-038-4235-001	ADDRESS CHANGES TO BE NOTED ABOVE

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WV State Cable10 Pricing Contract

Spec Bid

ITEM NUM.	Quantity	Unit	Description	Selling	
				Selling	Extension Price
1	50	EA	PLASTIC CABLE TIES; 7 15/16" IN LENGTH, 100PK 3-M PART # 3-M06226 OR EQUAL	\$ 1.900	95.000
2	200	EA	VELCRO TYRAP WIRE TIES; 8" IN LENGTH; HELLERMAN TYTON PART # GT50X80P2 OR EQUAL	\$ 4.250	850.000
3	500	EA	CABLE SUPPORT J-HOOK; ERICO PART # CAT32 OR EQUAL	\$ 2.250	1,125.000
4	200	EA	ELECTRICAL TAPE; 3-M SCOTCH SUPER 88 PART # 88-SUPER- 3/4" X 66FT BID 3M OR EQUAL	\$ 3.550	710.000
5	50	EA	3M MOLDABLE PUTTY STIX PART # 3M-MPS-2+ OR EQUAL	\$ 15.100	755.000
6	500	EA	WALL CADDIES; ERICO PART # CATCR50 OR EQUAL	\$ 0.620	310.000
7	500	EA	SINGLE GANG LOW VOLTAGE MOUNTING BRACKETS; ARLINGTON PART # LV- 1 OR EQUAL	\$ 0.770	385.000
8	30	EA	3/4"W X 25YDS LONG BLACK VELCRO IN A ROLL VELCRO PART# 189645 OR EQUAL	\$ 15.540	466.200
9	10	EA	3M WIRE MARKER DISPENSER 0 THRU 9 ON A ROLL 3-M PART # STD-0-9 (FILLED) OR EQUAL	\$ 28.300	283.000
10	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 0 PART# SDR-0 OR EQUAL	\$ 1.780	53.400
11	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 1 PART# SDR-1 OR EQUAL	\$ 1.780	53.400
12	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 2 PART# SDR-2 OR EQUAL	\$ 1.780	53.400
13	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 3 PART# SDR-3 OR EQUAL	\$ 1.780	53.400
14	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 4 PART# SDR-4 OR EQUAL	\$ 1.780	53.400
15	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 5 PART# SDR-5 OR EQUAL	\$ 1.780	53.400
16	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 6 PART# SDR-6 OR EQUAL	\$ 1.780	53.400
17	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 7 PART# SDR-7 OR EQUAL	\$ 1.780	53.400
18	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 8 PART# SDR-8 OR EQUAL	\$ 1.780	53.400
19	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 9 PART# SDR-9 OR EQUAL	\$ 1.780	53.400
20	100	EA	ADJUSTABLE CABLE SUPPORT ERICO PART# CAT425 OR EQUAL	\$ 10.970	1,097.000
21	20	EA	PHILLIPS HEAD 3/4" LONG 10-32 RACK SCREWS W/WASHERS 100PK MIDDLE ATLANTIC PRODUCTS PART # HP OR EQUAL	\$ 11.750	235.000
22	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS GREAT LAKES PART# 1984-VCM MOUNTING HARDWARE INCLUDED BID GREAT LAKES OR EQUAL	\$ 180.000	3,600.000
23	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS CHATSWORTH PART# 12096-703 MOUNTING HARDWARE INCLUDED BID CHATSWORTH OR EQUAL	\$ 310.000	6,200.000
24	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS AFCO SYSTEMS PART# ASTCTRG84 (Discontinued) MOUNTING HARWARE INCLUDED Sub#XDR-8401 BID AFCO OR EQUAL	\$ 141.000	2,820.000

CABLE07 - PRICING PAGE

Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
25	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS SOUTHWEST PART# SWE2729BLK MOUNTING HARDWARE INCLUDED SOUTHWEST OR EQUAL BID	\$ 197.000	3,940.000	
26	40	EA	DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY 20" IN WIDTH; & 84" HEIGHT GREAT LAKES PART# GLRR-1984BA BID GREAT LAKES OR EQUAL	\$ 123.000	4,920.000	
27	40	EA	DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY 20" IN WIDTH; & 84" HEIGHT. CHATSWORTH PART# 46353-703 BID CHATSWORTH OR EQUAL	\$ 242.000	9,680.000	
28	10	EA	48" WALL MOUNT SWING OUT RACK; PART # GL48SR OR EQUAL GREAT LAKES BID GREAT LAKES	\$ 169.000	1,690.000	
29	10	EA	36" WALL MOUNT SWING OUT RACK; PART # GL36SR OR EQUAL GREAT LAKES BID GREAT LAKES	\$ 159.000	1,590.000	
30	10	EA	24" WALL MOUNT SWING OUT RACK; PART # GL24SR OR EQUAL GREAT LAKES BID GREAT LAKES	\$ 141.000	1,410.000	
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 BID X-MARK/CDT OR EQUAL	\$ 1,997.000	19,970.000	
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# XDP72-3-1S0012 BID X-MARK/CDT OR EQUAL	\$ 1,912.000	19,120.000	
33	10	EA	84" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 84"H X 29" W X 36" D; GREAT LAKES PART # 840E-2936WVCC BID GREAT LAKES OR EQUAL	\$ 1,789.000	17,890.000	
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 BID GREAT LAKES OR EQUAL	\$ 1,654.000	16,540.000	

CABLE07 - PRICING PAGE

Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
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 BID GREAT LAKES OR EQUAL	\$ 1,034.000	5,170.000	
36	10	EA	STATIONARY SHELVES FOR 19" MOUNTING IN NETWORKING CABINETS; GREAT LAKES PART # 7206-FM OR EQUAL	\$ 37.890	378.900	
37	20	EA	FAN ASSEMBLY W/FAN GUARDS & THREE 75 CFM FANS FOR NETWORKING CABINETS; GREAT LAKES PART # TPE-24F BID GREAT LAKES OR EQUAL	\$ 201.000	4,020.000	
38	20	EA	FAN ASSEMBLY W/FAN GUARDS & THREE 75 CFM FANS FOR NETWORKING CABINETS; GREAT LAKES PART # TPE-29F BID GREAT LAKES OR EQUAL	\$ 212.000	4,240.000	
39	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 3/4" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 043-LD00 BID DEKDUCT OR EQUAL	\$ 0.770	770.000	
40	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 1 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 042-LD00 BID DEKDUCT OR EQUAL	\$ 1.100	1,100.000	
41	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 2 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 045-LD00 BID DEKDUCT OR EQUAL	\$ 2.900	2,900.000	
42	1000	FT	RACEWAY MOLDING; TWO-PIECE; NON-METALLIC; 4" WIDTH X 2" DEPTH; DEKDUCT PART # 046-4020DWP-(Disc.) New#18142004-Base/181-94014-Cover BID DEKDUCT OR EQUAL	\$ 3.900	3,900.000	
43	20,000	FT	25 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# 18-499-36 OR EQUAL	\$ 0.640	12,800.000	
44	20,000	FT	50 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# 18-599-36 OR EQUAL	\$ 1.320	26,400.000	
45	20,000	FT	100 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# 18-799-36 OR EQUAL	\$ 2.300	46,000.000	
46	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 BID MOHAWK OR EQUAL	\$ 0.088	8,800.000	
47	200,000	FT	CAT. 5e MIN COMPLIANT CABLE; PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57547 BID MOHAWK OR EQUAL	\$ 0.150	30,000.000	
48	3000	EA	QUICK PORT 8P8C MODULAR RJ45 JACKS FOR CAT5e MIN COMPLIANT; WHITE IN COLOR; LEVITON PART # 5G108-RW5 BID LEVITON OR EQUAL	\$ 2.500	7,500.000	
49	200,000	FT	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 MOHAWK BID MOHAWK OR EQUAL	\$ 0.105	21,000.000	

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
50	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 BID MOHAWK OR EQUAL	\$ 0.189	56,700.000	
51	3,000	EA	LEVITON QUICKPORT 8P8C MODULAR RJ45 JACKS FOR CAT5E ENHANCED; ORANGE IN COLOR; LEVITON PART # 5G110-RO5 BID LEVITON OR EQUAL	\$ 2.810	8,430.000	
52	200	EA	CAT 5E ENHANCED 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 553-130-001 OR EQUAL	\$ 1.340	268.000	
53	200	EA	CAT 5E ENHANCED 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-003 (Sub# 453-130-003) OR EQUAL	\$ 0.550	110.000	
54	200	EA	CAT 5E ENHANCED 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-005 (Sub#453-130-005) OR EQUAL	\$ 0.710	142.000	
55	200	EA	CAT 5E ENHANCED 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-007 (Sub#453-130-007) OR EQUAL	\$ 0.830	166.000	
56	200	EA	CAT 5E ENHANCED 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-010 (Sub#453-130-010) OR EQUAL	\$ 1.120	224.000	
57	200	EA	CAT 5E ENHANCED 14FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-014 (Sub#453-130-014) OR EQUAL	\$ 1.450	290.000	
58	200	EA	CAT 5E ENHANCED 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-025 (Sub#453-130-025) OR EQUAL	\$ 2.440	488.000	
59	100	EA	CAT 5E ENHANCED 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-050 (Sub#453-130-050) OR EQUAL	\$ 4.560	456.000	
60	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 QUICKTRON BRAND OR EQUAL Q-T570-110-001U	\$ 0.540	270.000	
61	500	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON BRAND OR EQUAL Q-T551-110-1.5U	\$ 1.520	760.000	
62	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 3 FOOT LENGTH; LEVITON PART# 5G460-03* * - COLOR BID LEVITON OR EQUAL	\$ 1.550	3,100.000	
63	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 5 FOOT LENGTH; LEVITON PART# 5G460-05* * - COLOR BID LEVITON OR EQUAL	\$ 1.780	1,780.000	
64	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 7 FOOT LENGTH; LEVITON PART# 5G460-07* * - COLOR BID LEVITON OR EQUAL	\$ 1.990	3,980.000	
65	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 10 FOOT LENGTH; LEVITON PART# 5G460-10* * - COLOR BID LEVITON OR EQUAL	\$ 2.420	2,420.000	
66	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 15 FOOT LENGTH; LEVITON PART# 5G460-15* * - COLOR BID LEVITON OR EQUAL	\$ 3.050	3,050.000	

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
67	500	EA	CAT. 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 25 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET OR EQUAL Q-T570-110-025U	\$ 2.550	1,275.000	
68	100	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET OR EQUAL Q-T570-110-050U	\$ 4.890	489.000	
69	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 OR EQUAL Q-T570-110-100U	\$ 8.900	890.000	
70	50	EA	LEVITON QUICKPORT HIGH DENSITY 48-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H48 BID LEVITON OR EQUAL	\$ 43.890	2,194.500	
71	50	EA	LEVITON QUICKPORT HIGH DENSITY 24-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H24 BID LEVITON OR EQUAL	\$ 32.570	1,628.500	
72	50	EA	LEVITON QUICKPORT HIGH DENSITY 12-PORT PATCH PANEL LEVITON PART# 49255-H89 OR EQUAL	\$ 9.070	453.500	
73	100	EA	LEVITON 48-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART# 5G596-U48; BID LEVITON OR EQUAL	\$ 139.000	13,900.000	
74	100	EA	LEVITON 24-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U24; BID LEVITON OR EQUAL	\$ 69.500	6,950.000	
75	50	EA	LEVITON 12-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U12; BID LEVITON OR EQUAL	\$ 52.200	2,610.000	
76	50	EA	LEVITON 12-PORT 8P8C RJ45 CAT5E WALL MT. PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U89; BID LEVITON OR EQUAL	\$ 58.550	2,927.500	
77	100	EA	SIEMON 48-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-48 BID SIEMON OR EQUAL	\$ 265.000	26,500.000	
78	50	EA	SIEMON 24-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-24 BID SIEMON OR EQUAL	\$ 132.000	6,600.000	
79	20	EA	SIEMON 16-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-16 BID SIEMON OR EQUAL	\$ 99.000	1,980.000	
80	20	EA	SIEMON 12-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-89D-12 BID SIEMON OR EQUAL	\$ 68.000	1,360.000	
81	200	EA	SIEMON RACK MT. 1U WIRE MANAGER 01 PART# S110-RWM- BID SIEMON OR EQUAL	\$ 26.000	5,200.000	
82	20	EA	SIEMON WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; SIEMON WM-144-5 BID SIEMON OR EQUAL	\$ 37.000	740.000	
83	20	EA	3-POSITION HINGED FIXED BRACKETS FOR WALL; HPM-2; DATATEL OR EQUAL DATATEL PART # BID	\$ 26.000	520.000	

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
84	100	EA	WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; DATATEL PART # HCM-1D BID DATATEL OR EQUAL	\$ 20.000	2,000.000	
85	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 BID MOHAWK OR EQUAL	\$ 0.170	34,000.000	
86	300,000	FT	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 BID MOHAWK OR EQUAL	\$ 0.275	82,500.000	
87	5000	EA	QUICKPORT CAT6 EXTREME 8P8C RJ45 SNAP-IN CONNECTOR; BLUE IN COLOR; LEVITON PART # 61110-RL6; BID LEVITON OR EQUAL	\$ 4.100	20,500.000	
88	100	EA	CAT 6 EXTREME 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-001 OR EQUAL	\$ 3.000	300.000	
89	200	EA	CAT 6 EXTREME 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-003 OR EQUAL	\$ 3.210	642.000	
90	100	EA	CAT 6 EXTREME 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-005 OR EQUAL	\$ 3.500	350.000	
91	200	EA	CAT 6 EXTREME 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-007 OR EQUAL	\$ 3.990	798.000	
92	200	EA	CAT 6 EXTREME 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-010 OR EQUAL	\$ 4.150	830.000	
93	200	EA	CAT 6 EXTREME 15FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-015 OR EQUAL	\$ 4.890	978.000	
94	100	EA	CAT 6 EXTREME 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-025 OR EQUAL	\$ 6.200	620.000	
95	50	EA	CAT 6 EXTREME 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-050 OR EQUAL	\$ 9.000	450.000	
96	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON BRAND OR EQUAL Q-T536-110-1.5P	\$ 6.000	1,200.000	
97	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 1 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON BRAND OR EQUAL Q-T536-110-001P	\$ 6.000	1,200.000	
98	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 3 FOOT LENGTH; LEVITON PART # 62460-03* *-COLOR BID LEVITON OR EQUAL	\$ 2.450	980.000	
99	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 5 FOOT LENGTH; LEVITON PART # 62460-05* *-COLOR BID LEVITON OR EQUAL	\$ 2.970	1,188.000	
100	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 7 FOOT LENGTH; LEVITON PART # 62460-07* *-COLOR BID LEVITON OR EQUAL	\$ 3.650	1,460.000	
101	200	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 10 FOOT LENGTH; LEVITON PART # 62460-10* *-COLOR BID LEVITON OR EQUAL	\$ 4.240	848.000	

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
102	100	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 15 FOOT LENGTH; LEVITON PART # 62460-15* *-COLOR BID LEVITON OR EQUAL	\$ 5.350	535.000	
103	50	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 20 FOOT LENGTH; LEVITON PART # 62460-20* *-COLOR BID LEVITON OR EQUAL	\$ 6.450	322.500	
104	50	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET OR EQUAL Q-T536-110-050P	\$ 15.140	757.000	
105	50	EA	LEVITON 48-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U48 BID LEVITON OR EQUAL	\$ 202.200	10,110.000	
106	50	EA	LEVITON 24-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U24 BID LEVITON OR EQUAL	\$ 102.650	5,132.500	
107	50	EA	LEVITON 12-PORT PATCH PANEL; MUST BE CAT 6 ENHANCED CERTIFIED; LEVITON PART# 69586-U12 OR EQUAL	\$ 67.000	3,350.000	
108	50	EA	LEVTION 12-PORT 8P8C RJ45 CAT 6 WALL MT. PATCH PANEL; MUST BE CAT 6 ENHANCED CERTIFIED; LEVITON PART# 69586-U89 OR EQUAL	\$ 62.550	3,127.500	
109	50	EA	SIEMON 48-PORT PATCH PANEL; MUST BE CAT 6 CERTIFIED; SIEMON# HD6-48 BID SIEMON OR EQUAL	\$ 312.000	15,600.000	
110	50	EA	SIEMON 24-PORT PATCH PANEL; MUST BE CAT 6 CERTIFIED; SIEMON# HD6-24 BID SIEMON OR EQUAL	\$ 159.000	7,950.000	
111	1000	EA	2-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-2*P *-COLOR BID LEVITON OR EQUAL	\$ 1.350	1,350.000	
112	100	EA	4-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-4*P *-COLOR BID LEVITON OR EQUAL	\$ 2.550	255.000	
113	100	EA	SINGLE GANG IVORY BLANK WALL PLATE; LEVITON PART# 86014 OR EQUAL	\$ 0.250	25.000	
114	100	EA	SINGLE GANG WHITE BLANK WALL PLATE; LEVITON PART# 88014 OR EQUAL	\$ 0.250	25.000	
115	100	EA	QUICKPORT STAINLESS STEEL FLUSH WALLPHONE WALLPLATE; LEVITON PART# 4108W-0SP BID LEVITON OR EQUAL	\$ 6.240	624.000	
116	500	EA	1-PORT WALLPLATES; LEVITON PART # 41080-1*P *-COLOR BID LEVITON OR EQUAL	\$ 0.990	495.000	
117	1000	EA	2-PORT WALLPLATES; LEVITON PART # 41080-2*P *-COLOR BID LEVITON OR EQUAL	\$ 0.990	990.000	
118	100	EA	3-PORT WALLPLATES; LEVITON PART # 41080-3*P *-COLOR EQUAL (Sub#44-793XX) BID LEVITON OR	\$ 0.990	99.000	
119	100	EA	4-PORT WALLPLATES; LEVITON PART # 41080-4*P *-COLOR EQUAL BID LEVITON OR	\$ 0.990	99.000	
120	50	EA	6-PORT WALLPLATES; LEVITON PART # 41080-6*P *-COLOR EQUAL BID LEVITON OR	\$ 0.990	49.500	

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
121	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 BID OCC OR CORNING OR EQUAL	\$ 2.650	13,250.000	
122	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 BID OCC OR CORNING OR EQUAL	\$ 1.780	8,900.000	
123	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 BID OCC OR CORNING OR EQUAL	\$ 0.840	4,200.000	
124	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 EQUAL	\$ 0.490	2,450.000	
125	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 BID OCC OR CORNING OR EQUAL	\$ 3.250	16,250.000	
126	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 BID OCC OR CORNING OR EQUAL	\$ 1.950	9,750.000	
127	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 BID OCC OR CORNING OR EQUAL	\$ 1.090	5,450.000	
128	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 BID OCC OR CORNING OR EQUAL	\$ 0.650	3,250.000	
129	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX48-105D-WLS/900-OFNR-IAD OR CORNING PART # 048KWF-T4130DA1 BID OCC OR CORNING OR EQUAL	\$ 4.050	20,250.000	
130	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX24-085D-WLS/900-OFNR-IAD OR CORNING PART # 024K8F-31130-A1 BID OCC OR CORNING OR EQUAL	\$ 2.560	12,800.000	
131	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX12-065D-WLS/900-OFNR-IAD OR CORNING PART # 012K8F-31130-A1 BID OCC OR CORNING OR EQUAL	\$ 1.850	9,250.000	
132	5000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX06-055D-WLS/900-OFNR-IAD OR CORNING PART # 006K8F-31130-A1 BID OCC OR CORNING OR EQUAL	\$ 1.410	7,050.000	
133	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX48-095K-WLS/900-OFNR-IAK OR CORNING PART # 048KWP-T4130DA1 BID OCC OR CORNING OR EQUAL	\$ 4.880	24,400.000	

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
134	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 A3 CORNING PART # 024K8P-31130- BID OCC OR CORNING OR EQUAL	\$ 3.400	17,000.000	
135	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX12-080K-WLS/900- OFCP-IAK OR A3 CORNING PART # 012K8P-31130- BID OCC OR CORNING OR EQUAL	\$ 2.350	11,750.000	
136	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 A3 CORNING PART # 006K8P-31130- BID OCC OR CORNING OR EQUAL	\$ 1.730	8,650.000	
137	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 BID OCC OR CORNING OR EQUAL	\$ 2.300	6,900.000	
138	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 PART # MX12-090A-WLS/900-JGS OR CORNING PART # 012KWA-T4130D20 CORNING OR EQUAL	\$ 1.560	4,680.000	
139	3000	FT	FIBER OPTIC CABLE 6-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 WLS/900-JGS OR T4130D20 OCC PART # MX06-090A- CORNING PART # 006KWA- BID OCC OR CORNING OR EQUAL	\$ 1.210	3,630.000	
140	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 CORNING OR EQUAL	\$ 2.600	7,800.000	
141	3000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX024-085D-ALS/900-OFNR OR CORNING PART # 024C8F-31131-24 OR CORNING OR EQUAL	\$ 1.360	4,080.000	
142	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 BID OCC OR CORNING OR EQUAL	\$ 0.730	2,190.000	
143	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 CORNING OR EQUAL	\$ 0.400	1,200.000	
144	3000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX048-095K-ALS/900-OFNP OR CORNING PART # 048CWP-T4131D20 OCC OR CORNING OR EQUAL	\$ 2.790	8,370.000	
145	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 CORNING OR EQUAL	\$ 1.770	5,310.000	

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ITEM NUM.	Quantity	Unit	Description	Selling	
				Selling	Extension Price
146	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 CORNING OR EQUAL	BID OCC \$ 0.980	2,940.000
147	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX006-045K-ALS/900-OFNP OR CORNING PART # 006C8P-31131-29 OR CORNING OR EQUAL	BID OCC \$ 0.690	2,070.000
148	3000	FT	FIBER OPTIC CABLE 48-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX48-105D-ALS/900-OFNR-IAD OR CORNING PART # 048CWF-T4131DA1 OCC OR CORNING OR EQUAL	BID \$ 3.600	10,800.000
149	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX24-085D-ALS/900-OFNR-IAD OR CORNING PART # 024C8F-31131-A1 OR CORNING OR EQUAL	BID OCC \$ 2.330	6,990.000
150	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O 50UM MULTIMODE ARMORED OCC PART# DX12-065D-ALS/900-OFNR-IAD OR CORNING PART # 012C8F-31131-A1 OR CORNING OR EQUAL	BID OCC \$ 1.710	5,130.000
151	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX06-055D-ALS/900-OFNR-IAD OR CORNING PART # 006C8F-31131-A1 CORNING OR EQUAL	BID OCC OR \$ 1.270	3,810.000
152	3000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE ALS/900-OFNR-IAK OR OCC PART # DX48-095K- CORNING PART # 048CWP-T4131DA1 EQUAL	BID OCC OR CORNING OR \$ 4.230	12,690.000
153	3000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OFNR-IAK OR OCC PART # DX24-070K-ALS/900- CORNING PART # 024C8P-31131- A3 BID OCC OR CORNING OR EQUAL	BID OCC OR CORNING OR \$ 3.400	10,200.000
154	3000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OFNR-IAK OR OCC PART # DX12-060K-ALS/900- CORNING PART # 012C8P-31131- A3 BID OCC OR CORNING OR EQUAL	BID OCC OR CORNING OR \$ 2.150	6,450.000
155	3000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OFNR-IAK OR OCC PART # DX06-050K-ALS/900- CORNING PART # 006C8P-31131- A3 BID OCC OR CORNING OR EQUAL	BID OCC OR CORNING OR \$ 1.710	5,130.000
156	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL/DUCT MULTIMODE 50/125 OCC PART # DX012-075A-ALS/900 OR CORNING PART # 012CW4-T4131D20 CORNING OR EQUAL	BID OCC OR \$ 0.820	2,460.000
157	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL W/MESSENGER MULTIMODE 50/125 ALS/900-JGS OR OCC PART # M12-090A- CORNING PART # 012CWA- T4131D20 BID OCC OR CORNING OR EQUAL	BID OCC OR CORNING OR \$ 1.320	3,960.000

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ITEM NUM.	Quantity	Unit	Description	Selling	
				Selling	Extension Price
158	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 OCC OR CORNING	\$ 0.860	2,580.000
159	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 OCC OR	\$ 0.490	1,470.000
160	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 OCC OR	\$ 0.300	900.000
161	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	\$ 1.300	3,900.000
162	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX12-060K-SLX/900-OFNP-WB OR CORNING PART # 012E8P-31131-29 OR EQUAL BID	\$ 0.710	2,130.000
163	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 CORNING OR EQUAL BID OCC	\$ 0.480	1,440.000
164	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX24-085D-SLX/900-OFNR-IAD OR CORNING PART # 024E8F-31131-A1 OR CORNING OR EQUAL BID OCC	\$ 1.720	5,160.000
165	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX12-070D-SLX/900-OFNR-IAD OR CORNING PART # 012E8F-31131-A1 OR CORNING OR EQUAL BID OCC	\$ 1.340	4,020.000
166	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX06-060D-SLX/900-OFNR-IAD OR CORNING PART # 006E8F-31131-A1 OR CORNING OR EQUAL BID OCC	\$ 1.110	3,330.000
167	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 SLX/900-OFNR-IAK OR CORNING PART # 024E8P-31131-A3 OR EQUAL BID OCC OR CORNING OR	\$ 2.450	7,350.000
168	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 SLX/900-OFNR-IAK OR CORNING PART # 012E8P-31131-A3 OR EQUAL BID OCC OR CORNING OR	\$ 1.890	5,670.000
169	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 SLX/900-OFNR-IAK OR CORNING PART # 006E8P-31131-A3 OR EQUAL BID OCC OR CORNING OR	\$ 1.510	4,530.000
170	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-OFNR-IAK BID OCC OR EQUAL	\$ 7.440	14,880.000

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ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
171	2000	FT	FIBER OPTIC HYBRID CABLE 48 FIBER ARMORED PLENUM COATED (24 STRAND MULTI-MODE 50/125 & 24 STRAND SINGLEMODE 9/125) OCC PART # DX48-095K-24ALS-24SLX/900-OFCP-IAK OR CORNING PART # 048XWP-T41XXD20 BID OCC OR CORNING OR EQUAL	\$ 4.680	9,360.000	
172	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 BID OCC OR CORNING OR EQUAL	\$ 2.440	4,880.000	
173	2000	EA	SIECOR SC MM 62.5UM CONNECTORS, PART # 95-000-40 BID SIECOR OR EQUAL	\$ 8.990	17,980.000	
174	1000	EA	SIECOR ST MM 62.5UM CONNECTORS, PART # 95-000-50 BID SIECOR OR EQUAL	\$ 8.990	8,990.000	
175	500	EA	SIECOR SC MM 50UM CONNECTORS, PART# 95-050-41 BID SIECOR OR EQUAL	\$ 11.990	5,995.000	
176	500	EA	SIECOR ST MM 50UM CONNECTORS, PART# 95-050-51 BID SIECOR OR EQUAL	\$ 11.990	5,995.000	
177	500	EA	SIECOR SC SM CONNECTORS, PART# 95-200-41 BID SIECOR OR EQUAL	\$ 13.400	6,700.000	
178	500	EA	SIECOR ST SM CONNECTORS, PART# 95-200-51 BID SIECOR OR EQUAL	\$ 13.400	6,700.000	
179	20	EA	SIGNAMAX 1U RACKMOUNT FIBER ENCLOSURE SIGNAMAX PART# SL2M-B (Sub#MLKFRM-1RU-2X-50) BID SIGNAMAX OR EQUAL	\$ 61.900	1,238.000	
180	20	EA	SIGNAMAX 2U RACKMOUNT FIBER ENCLOSURE SIGNAMAX PART# UFE4-B SIGNAMAX OR EQUAL (Sub#MLKFRM-2RU-4X-50) BID	\$ 81.210	1,624.200	
181	20	EA	SIGNAMAX 3U RACKMOUNT FIBER ENCLOSURE SIGNAMAX PART# UFE6-B SIGNAMAX OR EQUAL (Sub#MLKFRM-2RU-6X-TS) BID	\$ 111.000	2,220.000	
182	20	EA	SIGNAMAX 6-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-06STM BID SIGNAMAX OR EQUAL (Sub#MLKMST-06-P-BLK)	\$ 12.650	253.000	
183	20	EA	SIGNAMAX 6-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-06SCM BID SIGNAMAX OR EQUAL (Sub#MLKMSC-06-MM-P-BLK)	\$ 12.650	253.000	
184	20	EA	SIGNAMAX 8-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-08STM BID SIGNAMAX OR EQUAL (Sub#MLKMST-08-P-BLK)	\$ 14.670	293.400	
185	20	EA	SIGNAMAX 8-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-W-08SCM BID SIGNAMAX OR EQUAL (Sub#MLKMSC-08-MM-P-BLK)	\$ 16.780	335.600	
186	20	EA	SIGNAMAX 12-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-B-12ST BID SIGNAMAX OR EQUAL (Sub#MLKMST-12-P-BLK)	\$ 19.870	397.400	
187	20	EA	SIGNAMAX 12-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES SIGNAMAX PART# UFE-B-12SC BID SIGNAMAX OR EQUAL (Sub#MLKMSC-12-MM-P-BLK)	\$ 25.230	504.600	
188	20	EA	SIGNAMAX BLANK PLASTIC MODULE; FITS RACK MOUNT ENCLOSURES SIGNAMAX PART # UFE-W-BL BID SIGNAMAX OR EQUAL (Sub#MLKMFMB-600BB-BLK)	\$ 2.340	46.800	
189	20	EA	LEVITON 1U RACKMOUNT FIBER ENCLOSURE LEVITON PART # 5R1UA-A03 OR EQUAL	\$ 79.000	1,580.000	
190	20	EA	LEVITON 2U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R2UA-A06 OR EQUAL	\$ 104.000	2,080.000	

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ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
191	20	EA	LEVITON 3U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R3UA-A12 OR EQUAL	\$ 141.000	2,820.000
192	20	EA	LEVITON SMALL EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 8"HIGH X 13"WIDE X 3.5"DEEP LEVITON PART# 5W110-00N OR EQUAL	\$ 55.000	1,100.000
193	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	\$ 75.000	1,500.000
194	20	EA	LEVITON LARGE EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 17" HIGH X 15" WIDE X 5.25" DEEP LEVITON PART# 5W710-00N OR EQUAL	\$ 155.000	3,100.000
195	50	EA	LEVITON ST FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY LEVITON PART# 5F100-1ST OR EQUAL	\$ 17.890	894.500
196	50	EA	LEVITON SC FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY LEVITON PART# 5F100-3SC OR EQUAL	\$ 19.990	999.500
197	50	EA	LEVITON BLANK 6-PACK FOR FIBER ENCLOSURES LEVITON PART# 5F100-BPP OR EQUAL	\$ 2.890	144.500
198	50	EA	LEVITON SC FIBER 8-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-8SC OR EQUAL Discontinued (Sub#LEV5F100-6BC)	\$ 34.000	1,700.000
199	50	EA	LEVITON SC FIBER 12-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-CSC OR EQUAL	\$ 34.000	1,700.000
200	50	EA	SIECOR ST CONNECTOR PANEL, PART # WIC-CP1-25 SIECOR OR EQUAL	BID \$ 25.000	1,250.000
201	50	EA	SIECOR SC CONNECTOR PANEL, PART # WIC-CP1-56 SIECOR OR EQUAL	BID \$ 37.000	1,850.000
202	30	EA	SIECOR WALL MOUNT FIBER ENCLOSURE, PART # WIC-012 SIECOR OR EQUAL	BID \$ 58.000	1,740.000
203	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER ST TO ST QUIKTRON BRAND OR EQUAL	1 Q-T810-112-003 \$ 4.650	465.000
204	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	1 Q-T810-132-003 \$ 4.650	465.000
205	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER SC TO SC QUIKTRON BRAND OR EQUAL	1 Q-T810-332-003 \$ 4.650	465.000
206	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO ST QUIKTRON BRAND OR EQUAL	1 Q-T810-L12-003 \$ 5.650	565.000
207	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO SC QUIKTRON BRAND OR EQUAL	1 Q-T810-L32-003 \$ 5.650	565.000
208	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO LC QUIKTRON BRAND OR EQUAL	1 Q-T810-LL2-003 \$ 6.120	612.000
209	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL	1 Q-T811-032-003 \$ 4.350	435.000
210	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL	1 Q-T811-0L2-003 \$ 5.120	512.000

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
211	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER ST TO ST QUIKTRON BRAND OR EQUAL 006	2 Q-T810-112-	\$ 5.010	501.000
212	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	2 Q-T810-132-006	\$ 5.010	501.000
213	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER SC TO SC QUIKTRON BRAND OR EQUAL 006	2 Q-T810-332-	\$ 5.010	501.000
214	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO ST QUIKTRON BRAND OR EQUAL 006	2 Q-T810-L12-	\$ 5.760	576.000
215	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO SC QUIKTRON BRAND OR EQUAL	2 Q-T810-L32-006	\$ 5.760	576.000
216	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO LC QUIKTRON BRAND OR EQUAL 006	2 Q-T810-LL2-	\$ 6.400	640.000
217	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL 006	2 Q-T811-032-	\$ 4.990	499.000
218	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL 006	2 Q-T811-0L2-	\$ 5.900	590.000
219	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER ST TO ST QUIKTRON BRAND OR EQUAL 009	3 Q-T810-112-	\$ 5.900	590.000
220	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER ST TO SC QUIKTRON BRAND OR EQUAL 009	3 Q-T810-132-	\$ 5.900	590.000
221	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER SC TO SC QUIKTRON BRAND OR EQUAL 009	3 Q-T810-332-	\$ 5.900	590.000
222	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO ST QUIKTRON BRAND OR EQUAL 009	3 Q-T810-L12-	\$ 6.100	610.000
223	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO SC QUIKTRON BRAND OR EQUAL 009	3 Q-T810-L32-	\$ 6.100	610.000
224	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO LC QUIKTRON BRAND OR EQUAL	3 Q-T810-LL2-009	\$ 6.990	699.000
225	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL 009	3 Q-T811-032-	\$ 5.650	565.000
226	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL 009	3 Q-T811-0L2-	\$ 6.240	624.000
227	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER ST TO ST QUIKTRON BRAND OR EQUAL 003	1 Q-T850-112-	\$ 4.550	455.000
228	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	1 Q-T850-132-003	\$ 4.550	455.000
229	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO SC QUIKTRON BRAND OR EQUAL 003	Q-T850-332-	\$ 4.550	455.000
230	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO ST QUIKTRON BRAND OR EQUAL	1 Q-T850-L12-003	\$ 5.250	525.000

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Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
231	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO SC QUIKTRON BRAND OR EQUAL 003	1 Q-T850-L32-	\$ 5.250	525.000
232	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO LC QUIKTRON BRAND OR EQUAL 003	1 Q-T850-LL2-	\$ 5.900	590.000
233	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL	1 Q-T851-032-003	\$ 4.550	455.000
234	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL 003	1 Q-T851-0L2-	\$ 5.150	515.000
235	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER ST TO ST QUIKTRON BRAND OR EQUAL	2 Q-T850-112-006	\$ 4.900	490.000
236	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	2 Q-T850-132-006	\$ 4.900	490.000
237	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER SC TO SC QUIKTRON BRAND OR EQUAL 006	2 Q-T850-332-	\$ 4.900	490.000
238	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO ST QUIKTRON BRAND OR EQUAL 006	2 Q-T850-L12-	\$ 5.880	588.000
239	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO SC QUIKTRON BRAND OR EQUAL 006	2 Q-T850-L32-	\$ 5.880	588.000
240	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO LC QUIKTRON BRAND OR EQUAL	2 Q-T850-LL2-006	\$ 6.230	623.000
241	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL 006	2 Q-T851-032-	\$ 5.250	525.000
242	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL 006	2 Q-T851-0L2-	\$ 5.760	576.000
243	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER ST TO ST QUIKTRON BRAND OR EQUAL	3 Q-T850-112-009	\$ 5.550	555.000
244	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER ST TO SC QUIKTRON BRAND OR EQUAL 009	3 Q-T850-132-	\$ 5.550	555.000
245	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER SC TO SC QUIKTRON BRAND OR EQUAL 009	3 Q-T850-332-	\$ 5.550	555.000
246	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO ST QUIKTRON BRAND OR EQUAL	3 Q-T850-L12-009	\$ 6.100	610.000
247	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO SC QUIKTRON BRAND OR EQUAL	3 Q-T850-L32-009	\$ 6.100	610.000
248	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO LC QUIKTRON BRAND OR EQUAL	3 Q-T850-LL2-009	\$ 7.010	701.000
249	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL	3 Q-T851-032-009	\$ 5.660	566.000
250	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL 009	3 Q-T851-0L2-	\$ 6.100	610.000
251	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER ST TO ST QUIKTRON BRAND OR EQUAL 003	1 Q-T810-227-	\$ 5.450	545.000

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ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
252	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	1 Q-T810-247-003	\$ 5.450	545.000
253	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER SC TO SC QUIKTRON BRAND OR EQUAL	1 Q-T810-447-003	\$ 5.450	545.000
254	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO ST QUIKTRON BRAND OR EQUAL	1 Q-T810-L27-003	\$ 6.100	610.000
255	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO SC QUIKTRON BRAND OR EQUAL	1 Q-T810-L47-003	\$ 6.100	610.000
256	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO LC QUIKTRON BRAND OR EQUAL	1 Q-T810-LL7-003	\$ 6.150	615.000
257	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL	1 Q-T811-047-003	\$ 6.100	610.000
258	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL	1 Q-T811-0L7-003	\$ 7.200	720.000
259	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER ST TO ST QUIKTRON BRAND OR EQUAL	2 Q-T810-227-006	\$ 5.550	555.000
260	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	2 Q-T810-247-006	\$ 5.550	555.000
261	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER SC TO SC QUIKTRON BRAND OR EQUAL	2 Q-T810-447-006	\$ 5.550	555.000
262	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO ST QUIKTRON BRAND OR EQUAL	2 Q-T810-L27-006	\$ 5.990	599.000
263	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO SC QUIKTRON BRAND OR EQUAL	2 Q-T810-L47-006	\$ 5.880	588.000
264	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO LC QUIKTRON BRAND OR EQUAL	2 Q-T810-LL7-006	\$ 6.550	655.000
265	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL	2 Q-T811-047-006	\$ 6.350	635.000
266	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL	2 Q-T811-0L7-006	\$ 7.550	755.000
267	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER ST TO ST QUIKTRON BRAND OR EQUAL	3 Q-T810-227-009	\$ 6.230	623.000
268	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER ST TO SC QUIKTRON BRAND OR EQUAL	3 Q-T810-247-009	\$ 6.230	623.000
269	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER SC TO SC QUIKTRON BRAND OR EQUAL	3 Q-T810-447-009	\$ 6.230	623.000
270	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO ST QUIKTRON BRAND OR EQUAL	3 Q-T810-L27-009	\$ 6.900	690.000
271	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO SC QUIKTRON BRAND OR EQUAL	3 Q-T810-L47-009	\$ 5.990	599.000

CABLE07 - PRICING PAGE

Spec Bid					Selling	
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price	
272	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO LC QUIKTRON BRAND OR EQUAL Q-T810-LL7-009 3	\$ 7.250	725.000	
273	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER SC TO MTRJ QUIKTRON BRAND OR EQUAL Q-T811-047-009 3	\$ 6.990	699.000	
274	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 METER LC TO MTRJ QUIKTRON BRAND OR EQUAL Q-T811-0L7-009 3	\$ 7.990	799.000	
275	20	EA	KENTROX CSU/DSU T1 TO ETHERNET EXTENDER OR EQUAL DISCONTINUED No Replacement PART#4020CE		0.000	
276	20	EA	ALLIED TELESYN ST TO RJ45 FEMALE FIBER MEDIA CONVERTER 10/100MEG PART# AT-FS201 BID ALLIED TELESYN OR EQUAL	\$ 177.000	3,540.000	
277	20	EA	ALLIED TELESYN CENTRE COM MC13 UTP/FIBER ST 10MBPS MEDIA CONVERTER PART# ATMC13-10 BID ALLIED TELESYN OR EQUAL	\$ 104.000	2,080.000	
278	20	EA	TRANSITION NETWORKS ETHERNET 10BASE-T TO 10BASE-FL STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-TBT-FRL-05 BID TRANSITION NETWORKS OR EQUAL	\$ 113.000	2,260.000	
279	20	EA	TRANSITION NETWORKS FAST ETHERNET 100BASE-TX TO 100BASE-FX STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-100BTX-FX-05 BID TRANSITION NETWORKS OR EQUAL	\$ 219.000	4,380.000	
280	10	EA	SYSTIMAX 600G2-1U-MOD-SD 600G2 MODULAR SHELF, 1U, SLIDE PART# 760028324 BID SYSTIMAX - OR EQUAL	\$ 179.000	1,790.000	
281	10	EA	SYSTIMAX RS-2AF-16SF ROLOSPLICE KIT E/W 2X FUSION SPLICE TRAY 1U SHELF PART# 760039867 BID SYSTIMAX - OR EQUAL	\$ 32.000	320.000	
282	10	EA	SYSTIMAX 600G2-2U-MOD-SD 600G2 MODULAR SHELF, 2U, SLIDE PART# 760032086 BID SYSTIMAX - OR EQUAL	\$ 229.000	2,290.000	
283	10	EA	SYSTIMAX RS-4AF-16SF ROLOSPLICE KIT E/W 4X FUSION SPLICE TRAY 2U SHELF PART#760031856 BID SYSTIMAX - OR EQUAL	\$ 41.500	415.000	
284	20	EA	SYSTIMAX MODG2-12LC-SM-PT G2 MODULE_12LC TERASPEED PIGTAILS PART# 760031039-(Disc.) New#760109496 BID SYSTIMAX - OR EQUAL	\$ 238.000	4,760.000	
285	20	EA	SYSTIMAX MODG2-12LC-LS-PT G2 MODULE_12LC LAZRSPEED 550 PIGTAILS PART# 760027748-(Disc.) New#760109470 BID SYSTIMAX - OR EQUAL	\$ 245.000	4,900.000	
286	5000	FT	SYSTIMAX 12 STRAND / SINGLE-MODE ARMORED FIBER OPTIC CABLE PART# 760004358-APYL-(Disc.) New#760127803 BID SYSTIMAX - OR EQUAL	\$ 1.960	9,800.000	
287	5000	FT	SYSTIMAX 12 STRAND / SINGLE-MODE ARMORED FIBER OPTIC CABLE PART# 700009731-APAQ-(Disc.) New# BID SYSTIMAX - OR EQUAL	\$ 3.170	15,850.000	
288	150,000	FT	SYSTIMAX 2071E CATEGORY 6 GIGASPEED XL PLENUM CABLE, YELLOW PART# 700210123 BID SYSTIMAX - OR EQUAL (Sub#WCCEM57195)	\$ 0.265	39,750.000	
289	150,000	FT	SYSTIMAX 2071E CATEGORY 6 GIGASPEED XL PLENUM CABLE, BLUE PART# 700208093 BID SYSTIMAX - OR EQUAL (Sub#WCCEM57193)	\$ 0.265	39,750.000	
290	2500	EA	SYSTIMAX MGS400 INFO, OUTLET, MGS400-318 BLUE PART# 700206758 BID SYSTIMAX - OR EQUAL	\$ 8.150	20,375.000	
291	2500	EA	SYSTIMAX MGS400 INFO, OUTLET, MGS400-123 YELLOW PART# 700206691 BID SYSTIMAX - OR EQUAL	\$ 8.150	20,375.000	
292	400	EA	SYSTIMAX M12L-003 2-PORT FACEPLATE IVORY PART# 108168477 BID SYSTIMAX OR EQUAL	\$ 1.390	556.000	
293	300	EA	SYSTIMAX M14L-003 4 PORT FACEPLATE IVORY PART# 108168550 BID SYSTIMAX OR EQUAL	\$ 1.390	417.000	
294	2000	EA	SYSTIMAX M60DA-318 BLUE ICON PART# 107296709 BID SYSTIMAX - OR EQUAL	\$ 10.090	20,180.000	
295	2000	EA	SYSTIMAX M60DA-123 YELLOW ICON PART# 107296667 BID SYSTIMAX - OR EQUAL	\$ 2.550	5,100.000	
296	350	EA	SYSTIMAX M106FR4-003 4 PORT 106 FRAME PART# 106627763 BID SYSTIMAX - OR EQUAL	\$ 2.110	738.500	

CABLE07 - PRICING PAGE

Spec Bid

ITEM NUM.	Quantity	Unit	Description	Selling	
				Selling	Extension Price
297	50	EA	SYSTIMAX PM-GS3-48: 48 PORT PATCH PANEL PART# 760062364 BID SYSTIMAX - OR EQUAL	\$ 525.000	26,250.000
298	50	EA	SYSTIMAX PM-GS3-24: 24-PORT PATCH PANEL PART# 760062356 BID SYSTIMAX - OR EQUAL	\$ 265.000	13,250.000
299	10	EA	HARGER 1/4" X 2" X 12" TGB KIT PART# GBI14212TGBKT BID HARGER - OR EQUAL	\$ 97.990	979.900
300	20	EA	HARGER RACK GROUND BAR KIT PART# RGBVKIT145836A BID HARGER - OR EQUAL	\$ 73.450	1,469.000
301	50	EA	HUBBELL SYSTEM 1 POKE THRU UNIT PART# S1PTAVFIT BID HUBBELL - OR EQUAL	\$ 110.000	5,500.000
302	50	EA	HUBBELL SYSTEM 1 UNIVERSAL COVER BRASS PART# S1CFCBRS BID WIREMOLD - OR EQUAL	\$ 74.000	3,700.000
303	50	EA	HUBBELL SYSTEM 1 SUBPLATE DOUBLE DUPLEX PART# S1SPDU BID HUBBELL - OR EQUAL	\$ 19.080	954.000
304	50	EA	HUBBELL 4 PORT 106 FRAME BLACK PART# BR106B BID HUBBELL - OR EQUAL	\$ 1.880	94.000
305	10	EA	HUBBELL SNAP-FIT BLANK 10 PACK BLACK PART# SFFB10 BID HUBBELL - OR EQUAL	\$ 3.550	35.500
306	15	EA	WIREMOLD FLAMESTOPPER 2" UNIT PART# FS2R-RED BID WIREMOLD - OR EQUAL	\$ 82.500	1,237.500
307	20	EA	WIREMOLD FLAMESTOPPER 4" UNITE PART# FS4R-RED BID WIREMOLD - OR EQUAL	\$ 103.200	2,064.000
308	10	EA	CHATSWORTH EVOLUTION G1 SINGLE-SIDED VERTICAL WIRE MANAGER PART# 35511-703 BID CHATSWORTH OR EQUAL	\$ 514.000	5,140.000
309	10	EA	CHATSWORTH EVOLUTION G1 FIBER SEGREGATION KIT PART# 35475-701 BID CHATSWORTH - OR EQUAL	\$ 94.090	940.900
310	20	EA	CHATSWORTH EVOLUTION G1 SPOOL KIT, BLACK PART# 15008-001 BID CHATSWORTH - OR EQUAL	\$ 66.880	1,337.600
311	15	EA	CHATSWORTH EVOLUTION G2 EDOUBLE-SIDED VERTICAL WIRE MANAGER PART#35521-703 BID CHATSWORTH OR EQUAL	\$ 665.000	9,975.000
312	10	EA	CHATSWORTH CCS DOUBLE-SIDED VERTICAL WIRE MANAGER PART# 30162-703 BID CHATSWORTH - OR EQUAL	\$ 378.000	3,780.000
313	10	EA	CHATSWORTH SPOOL KIT, BLACK PART# 15008-001 BID CHATSWORTH - OR EQUAL	\$ 65.880	658.800
314	10	EA	BRADY IDXPRT LABELS CATALOG# XC-1500-580-WT-BK BID BRADY - OR EQUAL	\$ 67.880	678.800
315	10	EA	BRADY IDXPRT LABELS CATALOG# XC-1500-580-WT-RD BID BRADY - OR EQUAL	\$ 67.880	678.800
316	10	EA	BRADY IDXPRT LABELS CATALOG# XC-1000-580-GN-WT BID BRADY - OR EQUAL	\$ 57.070	570.700
317	10	EA	BRADY IDXPRT LABELS CATALOG# XC-1000-580-BL-WT BID BRADY - OR EQUAL	\$ 57.070	570.700
318	10	EA	BRADY IDXPRT LABELS CATALOG# XC-1000-580-YL-BK BID BRADY - OR EQUAL	\$ 57.070	570.700
319	10	EA	BRADY IDXPRT LABELS CATALOG# XC-500-580-BL-WT BID BRADY - OR EQUAL	\$ 45.660	456.600
320	10	EA	BRADY IDXPRT LABELS CATALOG# XL-30-422 BID BRADY - OR EQUAL	\$ 55.660	556.600
321	50	EA	BRADY IDXPRT LABELS CATALOG# XSL-31-427 BID BRADY - OR EQUAL	\$ 54.660	2,733.000
322	50	EA	BRADY IDXPRT LABELS CATALOG# XSL-31-427-YL-BK BID BRADY - OR EQUAL	\$ 58.990	2,949.500
323	10	PK	HELLERMAN TYTON PART# GWT003X2 25pk OR EQUAL	\$ 8.990	89.900
324	10	PK	HELLERMAN TYTON PART# CT2012X2 25pk OR EQUAL	\$ 27.000	270.000

TOTAL COST OF ITEMS

1,425,459.600

Cost for INSIDE DELIVERY (Explain)

125.00Hour

Delivery Cost includes travel time too and from inside delivery 1-hour Mim.

TOTAL EVALUATED BID PRICE

THERE WILL NOT BE A SPLIT AWARD FOR THIS CONTRACT.

Item # 286 + 287

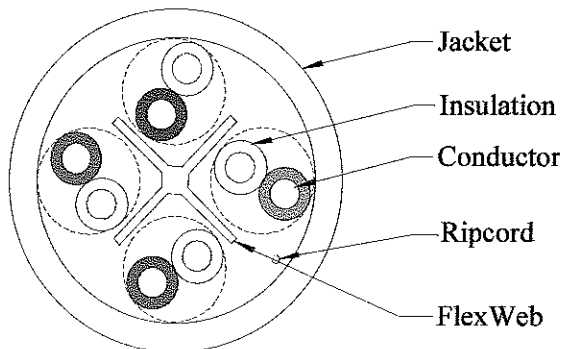
MASTER SPECIFICATION
AdvanceNet® CABLE
4 PAIR #23 AWG UTP CATEGORY 6e PLENUM

Design Number:
HT41192

DESCRIPTION

UNSHIELDED TWISTED PAIR (UTP) ADVANCENET CABLE FOR USE IN HORIZONTAL CABLING SYSTEMS PER TIA 568-B AND ISO/IEC 11801 CLASS E. THE CABLE EXCEEDS TIA 568-B 2-1 AND ISO/IEC 11801 CATEGORY 6 ELECTRICAL CHARACTERISTICS. THE CABLE CONSISTS OF #23 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A FLEXWEB® CORE SEPARATOR AND A RIPCORD, UNDER AN OVERALL JACKET. PRINT INCLUDES DESCENDING FOOTAGE MARKERS FROM 1000 TO 0 ON EACH 1000 FT REEL OR BOX. THIS PRODUCT AND/OR ITS MANUFACTURE IS COVERED BY US PATENT NOS. 6596944, 6074503, 5563377 & 5424491.

THE CABLE IS PLENUM RATED FOR USE IN AIR HANDLING DUCTS AND SPACES IN ACCORDANCE WITH ARTICLE 800 OF THE NATIONAL ELECTRICAL CODE (NEC). THE CABLE IS ETL (USA) & cETL (CANADA) LISTED FOR THIS APPLICATION BY PASSING NFPA 262 (FT6 OR PREVIOUSLY UL 910 STEINER TUNNEL) TEST.



SUPPORTED APPLICATIONS

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

CONSTRUCTION

PRIMARIES: CONDUCTOR: 23 AWG (.6 mm) SOLID BARE COPPER
 DUAL INSULATION, FEP ON ALL 4 PAIRS

PAIR ASSEMBLY: 2 PRIMARIES TWISTED IN VARIED LAYS

COLOR CODE: SEE TABLE 1

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

JACKET: NO LEAD PLENUM RATED THERMOPLASTIC
 JACKET COLOR: SEE TABLE 2
 NOMINAL CABLE OD: .237" (6.02 mm)

LISTING: C(ETL)US TYPE CMP
 ETL VERIFIED TO TIA 568-B-2-1 CAT 6

PHYSICAL CHARACTERISTICS

CABLE WEIGHT: 35 lbs/1000ft (52 kg/km)

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

PULLING TENSION: 25 lbf (110 N) MAX

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

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

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

TABLE 1

PAIR NUMBER	PAIR COLOR CODE	
1	WHITE-BLUE	BLUE
2	WHITE-ORANGE	ORANGE
3	WHITE-GREEN	GREEN
4	WHITE-BROWN	BROWN

TABLE 2

MOHAWK PART NUMBER	MOHAWK DESIGN NUMBER	JACKET COLOR
M56905	HT39985	WHITE
M57193	HT41063	BLUE
M57194	HT41064	PINK
M57195	HT41065	YELLOW
M57196	HT41066	GRAY
M57197	HT41067	GREEN
M57198	HT41068	RED
M57199	HT41069	ORANGE
M57200	HT41070	BLACK
M57201	HT41071	VIOLET
M58512	HT53064	KELLEY GREEN
M58848	HT55328	BROWN
M58847	HT56828	LIME GREEN

* THE INSTALLATION TEMPERATURE REFERS TO THE TEMPERATURE OF THE CABLE WHILE BEING INSTALLED OR PULLED. DO NOT INSTALL BELOW 0°C (+32°F).



MOHAWK
 Cabling Excellence for Open Architecture

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Rev	Description	Date	Init.
AL	CHG UL TO ETL LISTED	11/06/07	JS
AM	CHANGE SKEW	01/23/08	JS
AN	ADD BRN & LM GRN P/N'S; CHG ADV (TM) TO (R)	08/13/08	JS
AO	CHANGE DIAMETER & WGT, ELECTRICALS	02/23/10	JS
Date: 09/26/07		Page 1 of 2	
Orig:		Review:	
			Design Number: HT41192

Mohawk reserves the right to change any specification in the interest of product enhancement.
 This cable complies with the EU RoHS directive 2002/95/EC (restrictions on hazardous substances) regulations.

MASTER SPECIFICATION
AdvanceNet® CABLE
4 PAIR #23 AWG UTP CATEGORY 6e PLENUM

Design Number:
HT41192

ELECTRICAL CHARACTERISTICS (REF TABLE 3)

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

CONDUCTOR DCR: 7.69 Ω/100m (23.4 Ω/Mft) MAX

DCR UNBALANCE: 5% MAX

MUTUAL CAPACITANCE: 5.6 pF/100m (17 pF/ft) NOM

CAPACITANCE UNBALANCE PAIR/GROUND: 330 pF/100m (1083 pF/Mft) MAX

CHARACTERISTIC IMPEDANCE: 100 Ω ± 15% (1-350 MHz)

INPUT IMPEDANCE: 100 Ω ± 15% (10-100 MHz)
 100 Ω ± 22% (>100-200 MHz)
 100 Ω ± 32% (>200-350 MHz)

RETURN LOSS (RL): 20 + 5 log₁₀(f) dB MIN (1-10 MHz)
 25 dB MIN (>10-20 MHz)
 25 - 7 log₁₀(f/20) dB MIN (20-100 MHz)
 25 - 7 log₁₀(f/20) + 0.7 dB MIN (>100 MHz)

INSERTION LOSS

(ATTENUATION): $1.76\sqrt{f} + .017f + \frac{.20}{\sqrt{f}}$ dB/100m MAX

NEAR END CROSSTALK (NEXT): 76 - 15 log₁₀(f/1.772) + 5 dB/100m MIN

POWER SUM NEAR END CROSSTALK (PS-NEXT): 74 - 15 log₁₀(f/1.772) + 5 dB/100m MIN

EQUAL LEVEL FAR END CROSSTALK (ELFEXT): 70 - 20 log(f/1.772) + 5 dB/100m MIN

POWER SUM EQUAL LEVEL FAR END CROSSTALK (PS-ELFEXT): 67 - 20 log(f/1.772) + 5 dB/100m MIN

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

DELTA DELAY (SKEW): 45 ns/100m MAX

NOMINAL VELOCITY OF PROPAGATION (NVP): 72%

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

TABLE 3

REFERENCE ELECTRICAL CHARACTERISTICS

FREQ (MHz)	INSERTION LOSS (dB/100m)		NEXT (dB/100m)		ACR (dB/100m)	PS-NEXT (dB/100m)		PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RL (dB)
	avg	max	avg	min	min	avg	min	min	min	min	min
.772	1.6	1.8	90	51.0	79.2	83	79.0	77.2	-	-	-
1.0	1.8	2.0	88	79.3	77.3	81	77.3	75.3	72.8	69.8	20.0
4.0	3.5	3.7	79	70.3	66.6	72	69.3	64.6	60.7	57.7	23.0
8.0	4.9	5.2	75	65.8	60.6	68	63.8	58.6	54.7	51.7	24.5
10.0	5.6	5.8	73	64.3	58.5	66	62.3	56.8	52.8	49.8	25.0
16.0	7.1	7.4	70	61.3	53.9	63	59.3	51.9	48.7	45.7	25.0
20.0	7.9	8.3	69	59.8	51.5	62	57.8	49.5	46.7	43.7	25.0
25.0	8.8	9.3	67	58.4	49.1	60	56.4	47.1	44.8	41.8	24.3
31.25	10.0	10.4	66	56.9	46.5	59	54.9	44.5	42.0	39.9	23.6
62.5	14.3	15.0	61	52.4	37.4	54	50.4	35.4	36.8	33.8	21.5
100.0	18.4	19.3	58	49.3	30.0	51	47.3	28.0	32.8	29.8	20.8
200.0	27.0	28.3	54	44.8	16.5	47	42.8	14.5	26.7	23.7	18.7
250.0	30.5	32.1	52	43.4	11.3	45	41.4	9.3	24.8	21.8	18.0
300.0	33.9	35.6	51	42.2	6.6	44	40.2	4.6	23.2	20.2	17.5
350.0	37.0	38.9	50	41.2	2.3	43	39.2	0.3	21.9	18.9	17.0
400.0	40.0	42.0	49	40.3	-	42	38.3	-	20.7	17.7	16.6
450.0	43.0	45.0	48	39.5	-	41	37.5	-	19.7	16.7	16.2
500.0	45.5	47.9	48	38.8	-	41	36.8	-	18.8	15.8	15.9
550.0	48.2	50.6	47	38.2	-	40	36.2	-	17.9	14.9	15.6
600.0	50.7	53.3	47	37.6	-	40	35.6	-	-	-	15.4
650.0	53.2	55.9	46	37.1	-	39	35.1	-	-	-	15.1

VALUES ABOVE 350 MHz ARE FOR ENGINEERING INFORMATION ONLY.



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Rev	Description	Date	Init.
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Date: 09/26/07		Page 2 of 2	
Orig:		Review:	
			Design Number: HT41192

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 This cable complies with the EU RoHS directive 2002/95/EC (restrictions on hazardous substances) regulations.

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 exceeds 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: SESCO Datacom

Authorized Signature: [Signature] Date: 5-18-10

State of WV

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 18 day of MAY, 2010

My Commission expires Nov. 17, 2010, 2010.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

