

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

Request for Quotation

HIP

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CABLE 13

ADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER

304-558-2316

*709002526 314-573-5174 GRAYBAR ELECTRIC COMPANY INC 1010 YOUNG ST CHARLESTON WV 25301

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

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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 offline at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

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

INSTRUCTIONS TO BIDDERS

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



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



*709002526

1010 YOUNG ST

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AND POLITICAL SUBDIVISIONS
VARIOUS LOCALES AS INDICATED

BY ORDER

VENDOR

TITLE

GRAYBAR ELECTRIC COMPANY INC

FREIGHT TERMS DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. 04/11/2012 BID OPENING DATE: 01:30PM BID OPENING TIME 05/10/2012 CAT. UOP UNIT PRICE **AMOUNT** LINE QUANTITY ITEM NUMBER CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM. REV. 05/26/2009 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. NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE 1014

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BY ORDER

DATE PRINTED TERMS OF SALE SHIP VIA FREIGHT TERMS F.O.B. 04/11/2012 **BID OPENING DATE:** 05/10/2012 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE **AMOUNT** SEALED BID FRANK WHITTAKER-FILE 44 BUYER: RFQ. NO.: CABLE 13 BID OPENING DATE: 05/10/2012 BID OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: CONTACT PERSON (PLEASE PRINT CLEARLY): CABLE13 ***** TOTAL: THIS IS THE END OF REQ ***** SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TITLE ADDRESS CHANGES TO BE NOTED ABOVE 380001

REQUEST FOR QUOTATION: CABLE13 STATEWIDE CONTRACT COMPUTER DATA CABLE (COPPER/FIBER) & FITTINGS

The Acquisition and Contract Administration Section of the Purchasing Division, hereinafter referred to as "State", is soliciting bids for the Office of Technology, hereinafter referred to as "WVOT", to establish a statewide contract to provide computer data cable (copper/fiber) and fittings for all West Virginia State agencies and participating political subdivisions.

PURPOSE 1.0

The purpose of this RFQ is to request bids from responsible vendors with the intent to award a statewide contract to provide computer data cable, (copper/fiber) and fittings to state agencies. This contract will include category 5E and category 6 plenum & non plenum cable, patch panels, modular connectors, single-mode & multi-mode fiber, and accessories.

Our primary goal is to leverage the State of West Virginia's buying power to ultimately reduce our overall costs, while meeting our requirements and maintaining an acceptable quality.

DEFINITIONS 2.0

The below terms shall be herein defined as:

A. "Vendor": the successful bidder(s)

B. "Manufacturer": the company who produces the equipment.

C. "Contract": the binding agreement that is entered into between the State of West

Virginia and the Vendor to provide the services as herein specified.

D. Mandatory Requirements: The terms "must", "will", "shall", "minimum", "maximum", or "is/are required" identify a mandatory item or factor. Decisions regarding compliance with any mandatory requirements shall be at the sole discretion of the State. Failure on the part of the Vendor to meet any of the mandatory specifications shall result in the disqualification of the bid.

3.0 MATERIAL SPECIFICATIONS

3.1 Category 5e Plenum & Non-plenum Cable

REFERS TO ITEMS 45 & 46 ON PRICING SHEETS

Minimum specifications:

UNSHIELDED TWISTED PAIR CABLE TESTED TO 200 mhz AND ETL VERIFIED TO CATEGORY 5e. CAT.5e CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. CAT.5e CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT LENGHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. OUTER JACKET OF CAT.5e CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.5e NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.5e PLENUM CABLE MUST HAVE "CMP' PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE. CAT.5e PLENUM CABLE MUST USE DUAL INSULATION - CONSIDERED FEP ON ALL 4 PAIRS AND INSULATION IS A DUAL LAYER OF FRPE AND FEP. 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.

3.2 Category 5e Modular Connectors

REFERS TO ITEM 47 ON PRICING SHEETS

Modular connector for Category 5e UTP structured cabling systems and uses include high megabit applications such as Gigabit Ethernet and 622 Mbps ATM. The Category 5e modular connector shall meet or exceed individual snap-in style, and provide compliance with TIA/EIA-568-B specifications. The connectors shall also be in compliance with all National Electrical Codes; compliant with FCC Part 68; UL listed; and independently UL Certified. In addition to Category 5e compliance, the connector shall have the ability to support high megabit and shared-sheath applications. All plastics used in construction of the connector bodies shall be fire-retardant with a UL

flammability rating of 94V-0. Termination of all connectors shall be 110-type IDC with solder-plated phosphor bronze contacts. The connector shall provide a ledge directly adjacent to the 110 style termination against which the wires can be directly terminated and cut in one action by the installer. Connector wiring label shall provide installation color codes for T568B wiring schemes. The modular hardware shall fit all other installed telecommunications wall plates, outlets and field configurable patch panels and patch blocks. A selection of 13 colors must be available for the Cat.5e connector, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

STANDARDS COMPLIANCE

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

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

PHYSICAL SPECIFICATIONS

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

Materials: Connector body is high-impact, fire-retardant plastic rated UL 94V-0. Spring wire contacts are high-quality phosphor bronze, plated with 50 micro-inches of gold over 100 micro inches of nickel for lowest contact resistance, maximum life. Connector 110style IDC contacts are solder-plated phosphor bronze.

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

DESIGN SPECIFICATIONS

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

INSTALLATION NOTES

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

Category 5E Plenum & Non-plenum Cable 3.3

REFERS TO ITEMS 48 & 49 ON PRICING SHEETS

Minimum specifications: UNSHIELDED TWISTED PAIR CABLE TESTED TO 400 MHz AND ETL VERIFIED TO CATEGORY 5E CABLE EXCEEDS TIA/EIA 568-B.2 CAT.5e & CATEGORY 5E. ISO/IEC 11801 CAT.5E. HORIZONTAL CABLE SPECS. THIS CAT.5E CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. OUTER JACKET OF CAT.5E CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, CAT.5E NON-YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.5E PLENUM CABLE MUST HAVE "CMP' PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE. CAT.5E PLENUM CABLE MUST USE DUAL INSULATION - CONSIDERED FEP ON ALL 4 PAIRS AND INSULATION IS A DUAL LAYER OF FRPE AND FEP.

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 5e

HORIZONTAL CABLE

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

DCR UNBALANCE: 3% MAX

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

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

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

INPUT IMPEDANCE: 100 ohms15% (1-100 MHz); 100 ohms 22% (>100-200 MHz)

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

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

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

3.4 Category 5E Modular Connectors

REFERS TO ITEM 50 ON PRICING SHEETS

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

Rear termination field shall include pointed pair separation towers to promote easier installation. All plastics used in construction of the connector bodies **must** be fire retardant with a UL flammability rating of 94V-0. Termination of all connectors shall be 110-type insulation displacement connectors (IDC). The connector shall provide a cutting ledge directly adjacent to the 110-style IDC's against which the wires can be directly terminated and cut in one action.

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

STANDARDS COMPLIANCE

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

PHYSICAL SPECIFICATIONS

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

Materials: Connector body is high-impact, fire-retardant plastic rated UL 94V-0. Spring wire contacts are high quality copper-based alloy, plated with 50 micro-inches of gold over 100 micro-inches of nickel for lowest electrical contact resistance and maximum life. Connector **must** include selection of 13 colors, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond, and brown.

FEATURES

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

DESIGN SPECIFICATIONS

- For use in any Category 5e housing to support Category 5E UTP connectivity in surface mount, flush mount, or modular furniture outlets and field configurable patch
- Can be used in conjunction with other snap-in modules for voice/data and video applications over UTP, coax and fiber.

· Connector must be available in 13 colors, which include ivory, white, grey, black, orange, blue, bright red, dark red, yellow, green, purple, almond & brown in order to identify ports for different applications.

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

Category 5E Patch Panels 3.5

REFERS TO ITEMS 72, 73, 74 & 75 ON PRICING SHEETS

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

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 and must follow 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.

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

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

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

Mounts on 19" standard equipment racks.

 Panel offered in 12-, 24-, 48-port configurations and a 12-Port Patch Block for wallmount applications.

Connector modules are grouped in sets of six.

Category 6 Plenum & Non-plenum Cable 3.6

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

DESCRIPTION & MINIMUM SPECIFICATIONS:

ENHANCED UNSHIELDED TWISTED PAIR (UTP) CAT.6 CABLE FOR USE IN HORIZONTAL CABLING SYSTEMS PER TIA/EIA 568-B AND ISO/IEC 11801 CLASS E. TESTED TO 650 MHz AND ETL VERIFIED TO TIA/EIA-568-B.2-1 CAT.6. THE CABLE EXCEEDS TIA/EIA 568-B.2-1 AND ISO/IEC 11801 CATEGORY 6 THE CABLE CONSISTS OF #23 AWG SOLID ELECTRICAL CHARACTERISTICS. BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A CORE SEPARATOR (SPINAL SPACER) AND A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. OUTER JACKET OF CAT.6 CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT 6 CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. CAT.6 NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.6 PLENUM CABLE MUST HAVE "CMP' PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE. CAT.6 PLENUM CABLE MUST USE DUAL INSULATION - CONSIDERED FEP ON ALL 4 PAIRS AND INSULATION IS A DUAL LAYER OF FRPE AND FEP.

All plenum cable must be 4X4 plenum construction.

SUPPORTED APPLICATIONS

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

INDUSTRY APPROVALS

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

HORIZONTAL CABLE

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

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

CONSTRUCTION

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

PL: DUAL INSULATION, FEP ON ALL 4 PAIRS; NP: THERMOPLASTIC POLYOLEFIN

PAIR ASSEMBLY: 2 PRIMARIES TWISTED IN VARIED LAYS

CABLE ASSEMBLY: 4 PAIRS CABLED TOGETHER WITH A FLEXWEB CORE

SEPARATOR

JACKET: PL: NO LEAD PLENUM RATED THERMOPLASTIC

NP: NO LEAD FLAME RETARDANT THERMOPLASTIC

NOMINAL CABLE OD: PL: .228" (5.79 mm); NP: .225" (5.7 mm)

PHYSICAL CHARACTERISTICS

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

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

PULLING TENSION: 25 lbf (110 N) MAX

OPERATING TEMP .: -20°C to +60°C (-4°F to +140°F) STORAGE TEMP.: -20°C to +75°C (-4°F to +167°F)

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

ELECTRICAL CHARACTERISTICS

STANDARDS:

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

HORIZONTAL CABLE

CONDUCTOR DCR: 7.8ohms/100m (23.8ohms/Mft) MAX

DCR UNBALANCE: 3% MAX

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

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

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

INPUT IMPEDANCE: 100 ohms ± 15% (1-100 MHz)

100 ohms ± 18% (>100-200 MHz) 100 ohms ± 22% (>200-350 MHz)

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

27 dB MIN (>10-20 MHz)

27 - 5.58 log10 (f/20) dB MIN (>20 MHz)

INSERTION LOSS (ATTENUATION): $1.795 \,\Box f + .017 \,f + .20 \,dB/100 \,m$ MAX

NEAR END CROSSTALK (NEXT): 48.3 - 15 log10 (f /100) dB/100m MIN

POWER SUM NEAR END CROSSTALK (PS-NEXT): 46.3 - 15 log10 (f/100) dB/100m

EQUAL LEVEL FAR END CROSSTALK (ELFEXT): 30 - 20 log10 (f /100) dB/100m

POWER SUM EQUAL LEVEL FAR END CROSSTALK (PS-ELFEXT): 28 - 20 log10 (f

/100) dB/100m MIN

PROPAGATION DELAY: 534 + 36 / □f ns/100m MAX DELTA DELAY (SKEW): 25 ns/100m MAXIMUM SKEW - tightly controlled

propagation delay.

NOMINAL VELOCITY OF PROPAGATION (NVP): 72% PLENUM

68% NON-PLENUM

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

Category 6 Modular Connectors 3.7

REFERS TO ITEM 83 ON PRICING SHEETS

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

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

PHYSICAL SPECIFICATIONS

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

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

DESIGN SPECIFICATIONS

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

INSTALLATION NOTES

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

Category 6 Patch Panels 3.8

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

The Category 6 patch panel shall meet or exceed the requirements for Category 6 described in TIA/EIA-568-B.2-1 as well as the Class E requirements described in ISO/IEC 11801-B. The panels shall feature T568B wiring configurations, white IDC 110punchdown modules, mounting standoffs for cable management bars, color-coded front window labeling, and a termination standoff for patch panel earthing/grounding. The panels shall have universal T568B wiring card for terminations.

The panels shall be made of 16 gauge steel, and shall have a black painted finish with white silk-screening. The plastic elements shall be fire-retardant with a UL flammability rating of 94V-0. The panel shall be offered in 12-, 24, 48-port configurations as well as an 89D 12-port configuration. The patch panel shall be configured with six port modules. The 110 termination on the rear of the panel must follow normal installation color sequence (blue, orange, green, brown) from left to right; and must be designed for use in high megabit applications such as Gigabit Ethernet.

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 and must follow 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.

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

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

UL94V-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.

ORDERING PROCEDURES 4.0

- 4.1 The Agency shall issue a WV-39 State Contract Release Order to the vendor for commodity/commodities covered under this contract. The WV-39 State Contract Release Order shall include the quantity and commodity/commodity to be purchased.
- 4.2 The Vendor MUST accept the WV-39 form by email, mail, or facsimile. The Vendor must acknowledge receipt of the Order
- 4.3 Community colleges, institutions, counties, municipalities, public schools, and other local government entities utilizing this contract shall establish ordering procedures directly with the Vendor.
- 4.4 The State reserves the right to utilize inter-state agreements, such as the Western States Contracting Alliance (WSCA), to purchase equipment, outside of the terms and conditions of any contract resulting from an award of this RFQ, pursuant to West Virginia State Code, Section §5A-3-19.

DELIVERY 5.0

- 5.1 Delivery shall be to the building dock and/or loading area designated by the WV-39 Release Order.
- 5.2 If requested, the Vendor must provide inside delivery. Agencies requiring inside delivery must provide this requirement on the WV-39 Release Order to the Vendor indicating specific delivery location.
- 5.3 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.

- 5.4 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.

6.0 INVOICING AND PAYMENT

- 6.1 The Vendor MUST accept the State of West Virginia VISA Purchasing Card for payment by all authorized State agencies for purchases against this contract.
- 6.2 It will be the responsibility of the successful vendor to bill the individual spending Units based on the WV-39 State Contract Release Order. Only one invoice per WV-39 State Contract Release Order shall be received. Invoice totals shall match WV-39 Release Order.

7.0 REPORTING

- 7.1 The vendor must provide a quarterly report of purchases to the Office of Technology, with a copy to Purchasing, showing the following items:
 - 1. Name of the ordering state agency;
 - 2. Materials ordered; and
 - 3. Total cost expended for that quarter.

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

Reports are to be sent to:

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

Krista Ferrell (KRISTA.S.FERRELL@WV.GOV)

Frank Whittaker (FRANK.M.WHITTAKER@WV.GOV)

8.0 COST

- 8.1 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.
- 8.2 All pricing submitted shall be FOB: Destination. (Vendor pays shipping.)
- 8.3 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.
- 8.4 The Contract resulting from this solicitation shall be 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.

8.5 Attachment A: Cost Sheet:

- 8.5.1 The cost sheet contains a list of all the materials to be covered by the contract. A vendor **should** bid on all items listed on the attached cost sheet. Vendor **should** indicate the brand bid for all items. There are 17 items listed below in section 8.6 that should include a part number.
- 8.5.2 Vendors are required to submit a hard copy of the cost sheet with their bid. Vendors are also strongly encouraged to submit an electronic version of the excel document and return with bid. If any deviation exists between the electronic version and the printed version, the printed one submitted shall prevail.
- 8.5.3 Vendors 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.

8.6 Samples

- 8.6.1 There are 17 items on the cost sheet referencing brands names and are marked with an asterisk (Reference 3.2 column of cost sheet). The item numbers are 45, 46, 47, 48, 49, 50, 72, 73, 74, 75, 81, 82, 83, 101, 102, 103, & 104.
- 8.6.2 Vendors intending to bid an alternative product for these 17 items must provide descriptive literature and samples. Failure to provide descriptive literature and samples may result in the bid being rejected as non-responsive.

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

- Manufacturers category 5e cable specifications (Items 45 & 46)
- Manufacturers category 5e RJ45 snap-in connector (Item 47)
- Manufacturers category 5E cable specifications (Items 48 & 49)
- Manufacturers category 5E RJ45 snap-in connector (Item 50)
- Manufacturers category 5E 12-,24-,48-port copper patch panels (Items 72, 73, 74 & 75)
- Manufacturers category 6 cable specifications (Items 81 & 82)
- Manufacturers category 6 RJ45 snap-in connectors (Item 83)
- Manufacturers category 6 12-,24-,48-port copper patch panels (Items 101,102,103,104)
- 8.6.3 These samples should be received no later than five (5) days after the bid opening date to allow WVOT time to make a determination of equality to the brand specified.
- 8.6.4 If bidder wishes to have samples returned, they must include a pre-paid label or other information to have the items returned at vendor's expense.

9.0 AWARD

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

STATEWIDE CONTRACT - CABLE13

COST SHEET

ITEM NUM.	BID Quantity	Unit	Description	Reference 3.2 ***	Unit Price	Extension Price
1	50	EA	PLASTIC CABLE TIES; 7 15/16" IN LENGTH, 100PK 3-M PART # 3-M06226 OR EQUAL		\$6.16	\$308.00
2	200	EA	VELCRO TYRAP WIRE TIES; 8" IN LENGTH; HELLERMAN TYTON PART # GT50X80P2 OR EQUAL		\$0.30	\$60.00
3	500	EA	CABLE SUPPORT J-HOOK; ERICO PART # CAT32 OR EQUAL		\$1.46	\$730.00
4	200	EA	ELECTRICAL TAPE; 3-M SCOTCH SUPER 88 3M PART # 88-SUPER-3/4" X 66FT OR EQUAL		\$3.61	\$722.00
5	50	EA	3M MOLDABLE PUTTY STIX PART # 3M-MPS-2+ OR EQUAL		\$12.18	\$609.00
6	500	EA	CABLE RETAINER CLIP; ERICO PART # CATCR50 OR EQUAL		\$0.56	\$280.00
7	500	EA	SINGLE GANG LOW VOLTAGE MOUNTING BRACKETS; ARLINGTON PART # LV-1 OR EQUAL		\$0.76	\$380.00
8	30	EA	3/4"W X 25YDS LONG BLACK VELCRO IN A ROLL VELCRO PART# 189645 OR EQUAL		\$18.39	\$551.70
9	10	EA	3M WIRE MARKER DISPENSER 0 THRU 9 ON A ROLL 3-M PART # STD-0-9 (FILLED) OR EQUAL		\$22.19	\$221.90
10	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 0 PART# SDR-0 OR EQUAL		\$1.40	\$42.00
11	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 1 PART# SDR-1 OR EQUAL		\$1.40	\$42.00
12	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 2 PART# SDR-2 OR EQUAL		\$1.40	\$42.00
13	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 3 PART# SDR-3 OR EQUAL		\$1.40	\$42.00
14	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 4 PART# SDR-4 OR EQUAL		\$1.40	\$42.00
15	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 5 PART# SDR-5 OR EQUAL		\$1.40	\$42.00
16	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 6 PART# SDR-6 OR EQUAL		\$1.40	\$42.00

17	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9	\$1.40	\$42.00
		No. 100 100 1	NUMBER 7 PART# SDR-7 OR EQUAL	\$1.40	\$42.00
18	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9	04.40	240.00
10	30	LA	NUMBER 8 PART# SDR-8 OR EQUAL	\$1.40	\$42.00
40	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9	2000	
19	30	EA	NUMBER 9 PART# SDR-9 OR EQUAL	\$1.40	\$42.00
20	100	EA	ADJUSTABLE CABLE SUPPORT;		0000 800 0000
20	100	EA	ERICO PART#CAT425 OR EQUAL	\$8.00	\$800.00
			PHILLIPS HEAD 3/4" LONG 10-32 RACK SCREWS		- 1
21	20	EA	W/WASHERS 100PK	200 10 10 1000	1
			MIDDLE ATLANTIC PRODUCTS PART # HP OR EQUAL	\$14.81	\$296.20
			VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS		
22	20	EA	MOUNTING HARDWARE INCLUDED	1	1
			GREAT LAKES PART# 1984-VCM OR EQUAL	\$176.00	\$3,520.00
			VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS		
23	20	EA	MOUNTING HARDWARE INCLUDED		
37.5.1			CHATSWORTH PART# 12096-703 OR EQUAL	\$256.00	\$5,120.00
			VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS		
24	20	EA	MOUNTING HARDWARE INCLUDED	1	
			AFCO SYSTEMS PART# AS-CTRG-84-WBLK OR EQUAL	\$176.00	\$3,520.00
			VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS		
25	20	EA	MOUNTING HARDWARE INCLUDED		
			SOUTHWEST PART# SWE2729BLK OR EQUAL	\$176.00	\$3,520.00
			DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK		
			MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY		
26	40	EA	20" IN WIDTH; & 84" HEIGHT		
	l		GREAT LAKES PART# GLRR-1984BA OR EQUAL	\$107.00	\$4,280.00
			DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK		
			MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY	1	
27	40	EA	20" IN WIDTH; & 84" HEIGHT.	1	
			CHATSWORTH PART# 46353-703 OR EQUAL	\$178.44	\$7,137.60
			48" WALL MOUNT SWING OUT RACK;		
28	10	EA	GREAT LAKES PART # GL48SR OR EQUAL	\$244.00	\$2,440.00
			36" WALL MOUNT SWING OUT RACK:		
29	10	EA	GREAT LAKES PART # GL36SR OR EQUAL	\$222.00	\$2,220.00
	 		24" WALL MOUNT SWING OUT RACK;		
30	10	EA	GREAT LAKES PART # GL24SR OR EQUAL	\$202.00	\$2,020.00
			CIAL VI LIVEO I VIVI II OLL TON OTTLEGO L		

31	10	EA	84" NETWORKING CABINET; CABINET WILL INCLUDE THE FOLLOWING: CASTERS, LEVELERS, GROUND LUG, TWO PAIR SQUARE HOLE RAILS, M6 HARDWARE, BOTTOM GLAND, TOP GLAND, 10IN FAN TOP, PERFORATED MESH FRONT DOOR, PERFORATED MESH REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. BELDEN PART# XDP84-3-1S0046 OR EQUAL	\$2,004.00	\$20,040.00
32	10	EA	72" NETWORKING CABINET; CABINET WILL INCLUDE THE FOLLOWING: CASTERS, LEVELERS, GROUND LUG, TWO PAIR SQUARE HOLE RAILS, M6 HARDWARE, BOTTOM GLAND, TOP GLAND, 10IN FAN TOP, PERFORATED MESH FRONT DOOR, PERFORATED MESH REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. BELDEN PART# XDP72-3-1S0012 OR EQUAL	\$1,992.00	\$19,920.00
33	10	EA	84" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS VENTED FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 84"H X 29" W X 36" D; GREAT LAKES PART # 840E-2936WVCC OR EQUAL	\$1,647.00	\$16,470.00
34	10	EA	72" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS VENTED FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 72"H X 29" W X 36" D GREAT LAKES PART # 720E-2936WVCC OR EQUAL	\$1,619.00	\$16,190.00

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35	5	EA	48" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS VENTED FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 6 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 48"H X 24" W X 32" D GREAT LAKES PART # 480E-2432WVCC OR EQUAL		\$1,313.00	\$6,565.00
36	10	EA	STATIONARY SHELVES FOR 19" MOUNTING IN NETWORKING CABINETS; GREAT LAKES PART # 7206-FM OR EQUAL		\$33.00	\$330.00
37	20	EA	FAN ASSEMBLY W/FAN GUARDS & THREE 75 CFM FANS FOR NETWORKING CABINETS; GREAT LAKES PART # TPE-24F OR EQUAL		\$185.00	\$3,700.00
38	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 3/4" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 043-LD00 OR EQUAL		\$1.04	\$1,040.00
39	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 1 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 042-LD00 OR EQUAL		\$1.57	\$1,570.00
40	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 2 1/2" WIDTH; 6 FT. LENGTH; DEKDUCT PART # 045-LD00 OR EQUAL		\$2.55	\$2,550.00
41	1000	FT	RACEWAY MOLDING; TWO-PIECE; NON-METALLIC; 4" WIDTH X 2" DEPTH; DEKDUCT PART # 046-4020DWP OR EQUAL		\$3.63	\$3,630.00
42	20,000	FT	25 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/25PC3P OR EQUAL		\$0.59	\$11,800.00
43	20,000	FT	50 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/50PC3P OR EQUAL		\$1.23	\$24,600.00
44	20,000	FT	100 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/100PC3P OR EQUAL		\$2.34	\$46,800.00
45	100,000	FT	CAT. 5e MIN COMPLIANT PVC CABLE; NON-PLENUM; WHITE IN COLOR; 1,000 FT. PER EASY PULL BOX; MOHAWK PART # M57554 OR EQUAL	***	\$0.08	\$8,300.00
46	200,000	FT	CAT. 5e MIN COMPLIANT CABLE; PLENUM; WHITE IN COLOR; 1,000 FT. PER EASY PULL BOX; MOHAWK PART # M57547 OR EQUAL	***	\$0.15	\$29,400.00

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47	3000	EA	QUICK PORT 8P8C MODULAR RJ45 JACKS FOR CAT5e MIN COMPLIANT; WHITE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE; LEVITON PART # 5G108-RW5 OR EQUAL	***	\$2.45	\$7,350.00
48	200,000	FT	CAT. 5E ENHANCED CABLE; NON-PLENUM RISER RATED; EASY PULL BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS MUST BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56167 OR EQUAL	***	\$0.11	\$21,600.00
49	300,000	FT	CAT. 5E ENHANCED CABLE; PLENUM; EASY PULL BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS MUST BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56168 OR EQUAL	***	\$0.21	\$62,400.00
50	3,000	EA	LEVITON QUICKPORT 8P8C MODULAR RJ45 JACKS FOR CAT5E ENHANCED; ORANGE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE; LEVITON PART # 5G110-RO5 OR EQUAL	***	\$3.39	\$10,170.00
51	200	EA	CAT 5E ENHANCED 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 553-130-001 OR EQUAL		\$1.18	\$236.00
52	200	EA	CAT 5E ENHANCED 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-003 OR EQUAL		\$0.53	\$106.00
53	200	EA	CAT 5E ENHANCED 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-005 OR EQUAL		\$0.63	\$126.00
54	200	EA	CAT 5E ENHANCED 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-007 OR EQUAL		\$0.74	\$148.00
55	200	EA	CAT 5E ENHANCED 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-010 OR EQUAL		\$1.00	\$200.00
56	200	EA	CAT 5E ENHANCED 14FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-014 OR EQUAL		\$1.30	\$260.00
57	200	EA	CAT 5E ENHANCED 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-025 OR EQUAL		\$2.16	\$432.00
58	100	EA	CAT 5E ENHANCED 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-050 OR EQUAL		\$4.05	\$405.00
59	500	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 1 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 570-110-001 OR EQUAL		\$0.36	\$180.00

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60	500	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 551-110-18IN OR EQUAL	\$1.27	\$635.00
61	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 3 FOOT LENGTH; LEVITON PART# 5G460-03* (* - COLOR) OR EQUAL	\$0.66	\$1,320.00
62	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 5 FOOT LENGTH; LEVITON PART# 5G460-05* (* - COLOR) OR EQUAL	\$0.73	\$730.00
63	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 7 FOOT LENGTH; LEVITON PART# 5G460-07* (* - COLOR) OR EQUAL	\$1.00	\$2,000.00
64	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 10 FOOT LENGTH; LEVITON PART# 5G460-10* (* - COLOR) OR EQUAL	\$1.10	\$1,100.00
65	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 15 FOOT LENGTH; LEVITON PART# 5G460-15* (* - COLOR) OR EQUAL	\$1.90	\$1,900.00
66	500	EA	CAT. 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 25 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART # 551-XXX-025 OR EQUAL (XXX=COLOR)	\$2.52	\$1,260.00
67	100	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 551-XXX-050 OR EQUAL (XXX=COLOR)	\$4.24	
68	100	EA	CAT. 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 100 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 551-XXX-100 OR EQUAL (XXX=COLOR)	\$8.30	
69	50	EA	LEVITON QUICKPORT HIGH DENSITY 48-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H48 OR EQUAL	\$47.00	
70	50	EA	LEVITON QUICKPORT HIGH DENSITY 24-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H24 OR EQUAL	\$34.48	\$1,724.00

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		20	LEVITON QUICKPORT HIGH DENSITY			1
71	50	EA	12-PORT PATCH PANEL		urtern control	
			LEVITON PART#49255-H89 OR EQUAL		\$9.20	\$460.00
			LEVITON 48-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH			
72	100	EA	PANEL; MUST BE CAT5E ENHANCED CERTIFIED;			
			LEVITON PART# 5G596-U48 OR EQUAL	***	\$168.56	\$16,856.00
			LEVITON 24-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH			
73	100	EA	PANEL: MUST BE CAT5E ENHANCED CERTIFIED;	1		- 1
6.8	199		LEVITON PART # 5G596-U24 OR EQUAL	***	\$84.29	\$8,429.00
			LEVITON 12-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH			
74	50	EA	PANEL; MUST BE CAT5E ENHANCED CERTIFIED;			1
, ,	- 50		LEVITON PART # 5G596-U12 OR EQUAL	***	\$57.33	\$2,866.50
			LEVITON 12-PORT 8P8C RJ45 CAT5E WALL MT. PATCH		ψ07.00	\$2,000.00
75	50	EA	PANEL; MUST BE CAT5E ENHANCED CERTIFIED;			
75	50	LA	LEVITON PART # 5G596-U89 OR EQUAL	***	\$46.63	\$2,331.50
-					Ψ-τ0.03	Ψ2,331.30
76	20	EA	SIEMON 12-PORT PATCH PANEL; MUST BE CAT.5E		\$46.63	\$932.60
			CERTIFIED; SIEMON #HD5-89D-12 OR EQUAL		\$40.03	\$932.60
77	200	EA	SIEMON RACK MT. 1U WIRE MANAGER		000.00	
			PART# S110-RWM-01 OR EQUAL		\$23.00	\$4,600.00
78	20	EA	SIEMON WIRE MANAGER; STANDARD INTERBAY CORD		200.00	****
		/A	MANAGER; SIEMON WM-144-5 OR EQUAL		\$28.00	\$560.00
79	20	EA	2-POSITION HINGED FIXED BRACKETS FOR WALL;			200 000 000 000 000 000
			DATATEL PART # HPM-2 OR EQUAL		\$22.00	\$440.00
80	100	EA	WIRE MANAGER; STANDARD INTERBAY CORD MANAGER;			
	100		DATATEL PART # HCM-1D OR EQUAL		\$19.12	\$1,912.00
			CAT 6 ENHANCED CABLE; NON-PLENUM; EASY PULL BOX			
			ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS MUST			
81	200,000	FT	BE AVAILABLE FOR OUTER JACKET; ELECTRICAL			
01	200,000	Li	CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE		1	1
			SUPPLIED.			1
			CAT 6 ADVANCENET MOHAWK PART# M57202 OR EQUAL	***	\$0.17	\$33,400.00
			CAT 6 ENHANCED CABLE; PLENUM; EASY PULL BOX ONLY;			
			1,000 FT. PER BOX; SELECTION OF COLORS MUST BE			
			AVAILABLE FOR OUTER JACKET; ELECTRICAL			
82	300,000	FT	CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE			
			SUPPLIED.			
			CAT 6 ADVANCENET MOHAWK PART# M57193 OR EQUAL	***	\$0.28	\$83,700.00
	 		QUICKPORT CAT6 EXTREME 8P8C RJ45 SNAP-IN		7	,53,-33,0
			CONNECTOR; BLUE IN COLOR BUT SELECTION OF			I
83	5000	EA	COLORS MUST BE AVAILABLE;			1
			LEVITON PART # 61110-RL6 OR EQUAL	***	\$4.62	\$23,100.00
			LEVITON PART # 01110-REO OR EQUAL		Ψ4.02	\$23,100.00

			CAT 6 EXTREME 1FT CROSSOVER CABLE RED IN COLOR		
84	100	EA	QUIKTRON PART # 538-130-001 OR EQUAL	\$2.66	\$266.00
85	200	EA	CAT 6 EXTREME 3FT CROSSOVER CABLE RED IN COLOR		
00	200	EA	QUIKTRON PART # 538-130-003 OR EQUAL	\$2.85	\$570.00
86	100	EA	CAT 6 EXTREME 5FT CROSSOVER CABLE RED IN COLOR		
- 00	100		QUIKTRON PART # 538-130-005 OR EQUAL	\$3.50	\$350.00
87	200	EA	CAT 6 EXTREME 7FT CROSSOVER CABLE RED IN COLOR	20.54	
			QUIKTRON PART # 538-130-007 OR EQUAL	\$3.54	\$708.00
88	200	EA	CAT 6 EXTREME 10FT CROSSOVER CABLE RED IN COLOR	\$3.68	¢726.00
			QUIKTRON PART # 538-130-010 OR EQUAL CAT 6 EXTREME 15FT CROSSOVER CABLE RED IN COLOR	\$3.00	\$736.00
89	200	EA	QUIKTRON PART # 538-130-015 OR EQUAL	\$4.34	\$868.00
			CAT 6 EXTREME 25FT CROSSOVER CABLE RED IN COLOR	Ψ	\$000.00
90	100	EA	QUIKTRON PART # 538-130-025 OR EQUAL	\$5.50	\$550.00
50.00	AT A SERVICE AND	22-7000	CAT 6 EXTREME 50FT CROSSOVER CABLE RED IN COLOR		
91	50	EA	QUIKTRON PART # 538-130-050 OR EQUAL	\$8.00	\$400.00
			CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO		
-00	000		RJ45M; NON-KEYED; 18 INCHES IN LENGTH; SELECTION		
92	200	EA	OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET		
			QUIKTRON PART# 576-XXX-18IN OR EQUAL (XXX=COLOR)	\$2.63	\$526.00
			CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO		
93	200	EA	RJ45M; NON-KEYED; 1 FOOT LENGTH; SELECTION OF	1	
			COLORS SHALL BE AVAILABLE FOR OUTER JACKET	\$0.00	0400.00
	-		QUIKTRON PART# 576-XXX-001 OR EQUAL (XXX=COLOR)	\$0.98	\$196.00
94	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 3 FOOT LENGTH;		
94	400		LEVITON PART # 62460-03* (*-COLOR) OR EQUAL	\$1.31	\$524.00
	 		CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-	¥	4021100
95	400	EA	KEYED; 5 FOOT LENGTH;		
			LEVITON PART # 62460-05* (*-COLOR) OR EQUAL	\$1.59	\$636.00
			CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-		
96	400	EA	KEYED; 7 FOOT LENGTH;		
			LEVITON PART # 62460-07* (*-COLOR) OR EQUAL	\$1.98	\$792.00
			CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-		
97	200	EA	KEYED; 10 FOOT LENGTH;		
			LEVITON PART # 62460-10* (*-COLOR) OR EQUAL	\$2.18	\$436.00
			CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-		
98	100	EA	KEYED; 15 FOOT LENGTH;	20.04	****
	ļ		LEVITON PART # 62460-15* (*-COLOR) OR EQUAL	\$3.61	\$361.00
		_,	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-		
99	50	EA	KEYED; 20 FOOT LENGTH;	\$4.50	\$20E 00
			LEVITON PART # 62460-20* (*-COLOR) OR EQUAL	\$4.50	\$225.00

			CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-			
1 1			KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL	1		1
100	50	EA	and the second of the second o			1
			BE AVAILABLE FOR OUTER JACKET		\$4.77	\$230 E0
$\overline{}$			QUIKTRON PART# 576-XXX-050 OR EQUAL (XXX=COLOR)		\$4.77	\$238.50
			LEVITON 48-PORT 8P8C RJ45 PATCH PANEL; MUST BE	1		1
101	50	EA	CAT. 6 ENHANCED CERTIFIED;		MANAGEMENT OF STATE	
			LEVITON PART # 69586-U48 OR EQUAL	***	\$241.80	\$12,090.00
			LEVITON 24-PORT 8P8C RJ45 PATCH PANEL; MUST BE			
102	50	EA	CAT. 6 ENHANCED CERTIFIED;			
			LEVITON PART # 69586-U24 OR EQUAL	***	\$122.74	\$6,137.00
			LEVITON 12-PORT PATCH PANEL; MUST BE CAT. 6			
103	50	EA	ENHANCED CERTIFIED;			
,,,,			LEVITON PART # 69586-U12 OR EQUAL	***	\$69.20	\$3,460.00
_			LEVITON 12-PORT 8P8C RJ45 CAT6 WALL MT. PATCH			
104	50	EA	PANEL; MUST BE CAT6 ENHANCED CERTIFIED;			
104	30	LA	LEVITON PART # 69586-U89 OR EQUAL	***	\$32.95	\$1,647.50
				-	ψ0Z.00	\$1,047.00
105	1000	EA	2-PORT SURFACE MOUNT BOX;	1	\$1.36	\$1,360.00
			LEVITON PART # 41089-2*P (*-COLOR) OR EQUAL		\$1.30	\$1,360.00
106	100	EA	4-PORT SURFACE MOUNT BOX;		00.54	2054.00
,00	100		LEVITON PART # 41089-4*P (*-COLOR) OR EQUAL		\$2.54	\$254.00
107	100	EA	SINGLE GANG IVORY BLANK WALL PLATE;		20.00	3
107	100		LEVITON PART# 86014 OR EQUAL		\$0.20	\$20.00
108	100	EA	SINGLE GANG WHITE BLANK WALL PLATE;		******	en e
100	100		LEVITION PART# 88014 OR EQUAL		\$0.20	\$20.00
400	400		QUICKPORT STAINLESS STEEL FLUSH WALLPHONE			
109	100	EA	WALLPLATE; LEVITON PART# 4108W-0SP OR EQUAL		\$5.45	\$545.00
		T	1-PORT WALLPLATES;			
110	500	EA	LEVITON PART # 41080-1*P (*-COLOR) OR EQUAL		\$0.93	\$465.00
		200	2-PORT WALLPLATES;			
111	1000	EA	LEVITON PART # 41080-2*P (*-COLOR) OR EQUAL	1	\$0.93	\$930.00
-	 		3-PORT WALLPLATES;			
112	100	EA	LEVITON PART # 41080-3*P (*-COLOR) OR EQUAL	1 1	\$0.93	\$93.00
		-	4-PORT WALLPLATES;		70.00	
113	100	EA		1 1	\$0.93	\$93.00
			LEVITON PART # 41080-4*P (*-COLOR) OR EQUAL		ψ0.95	Ψ30.00
114	50	EA	6-PORT WALLPLATES;	1 1	CO 00	040.50
			LEVITON PART # 41080-6*P (*-COLOR) OR EQUAL		\$0.93	\$46.50
			FIBER OPTIC CABLE 48-STRAND I/O MULTIMODE 62.5/125			
115	5000	FT	OCC PART # DX048-105D-WLS/900-OFNR OR	1		
			CORNING PART # 048KWF-T4130D20 OR EQUAL		\$1.68	\$8,400.00
			FIBER OPTIC CABLE 24-STRAND I/O MULTIMODE 62.5/125	T		
116	5000	FT	OCC PART # DX024-085D-WLS/900-OFNR OR			
			CORNING PART # 024K8F-31130-24 OR EQUAL		\$1.19	\$5,950.00

117	5000	FT	FIBER OPTIC CABLE 12-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX012-065D-WLS/900-OFNR OR CORNING PART # 012K8F-31130-24 OR EQUAL	\$0.54	\$2,700.00
118	5000	FT	FIBER OPTIC CABLE 6-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX006-055D-WLS/900-OFNR OR CORNING PART # 006K8F-31130-24 OR EQUAL	\$0.36	\$1,800.00
119	5000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX048-095K-WLS/900-OFNP OR CORNING PART # 048KWP-T4130D20 OR EQUAL	\$2.24	\$11,200.00
120	5000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX24-075K-WLS/900/OFNP OR CORNING PART # 024K8P-31130-29 OR EQUAL	\$1.15	\$5,750.00
121	5000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX12-060K-WLS/900-OFNP OR CORNING PART # 012K8P-31130-29 OR EQUAL	\$0.52	\$2,600.00
122	5000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX06-045K-WLS/900-OFNP OR CORNING PART # 006K8P-31130-29 OR EQUAL	\$0.36	\$1,800.00
123	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX48-105D-WLS/900-OFCR-IAD OR CORNING PART # 048KWF-T4130DA1 OR EQUAL	\$2.69	\$13,450.00
124	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX24-085D-WLS/900-OFCR-IAD OR CORNING PART # 024K8F-31130-A1 OR EQUAL	\$2.61	\$13,050.00
125	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX12-065D-WLS/900-OFCR-IAD OR CORNING PART # 012K8F-31130-A1 OR EQUAL	\$2.25	\$11,250.00
126	5000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX06-055D-WLS/900-OFCR-IAD OR CORNING PART # 006K8F-31130-A1 OR EQUAL	\$1.86	\$9,300.00
127	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX48-095K-WLS/900-OFCP-IAK OR CORNING PART # 048KWP-T4130DA1 OR EQUAL	\$2.83	\$14,150.00

128	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX24-070K-WLS/900-OFCP-IAK OR CORNING PART # 024K8P-31130-A3 OR EQUAL	\$1.91	\$9,550.00
129	5000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX12-060K-WLS/900-OFCP-IAK OR CORNING PART # 012K8P-31130-A3 OR EQUAL	\$1.26	\$6,300.00
130	5000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX06-050K-WLS/900-OFCP-IAK OR CORNING PART # 006K8P-31130-A3 OR EQUAL	\$1.01	\$5,050.00
131	3000	FT	FIBER OPTIC CABLE 24-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX24-095A-WLS/900-JGS OR CORNING PART # 024KWA-T4130D20 OR EQUAL	\$1.08	\$3,240.00
132	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL W / 1/4"MESSENGER MULTIMODE 62.5/125 OCC PART # MX12-090A-WLS/900-JGS OR CORNING PART # 012KWA-T4130D20 OR EQUAL	\$0.85	\$2,550.00
133	3000	FT	FIBER OPTIC CABLE 6-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX06-090A-WLS/900-JGS OR CORNING PART # 006KWA-T4130D20 OR EQUAL	\$0.66	\$1,980.00
134	3000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX048-105D-ALS/900-OFNR OR CORNING PART # 048CWF-T4131D20 OR EQUAL	\$1.63	\$4,890.00
135	3000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX024-085D-ALS/900-OFNR OR CORNING PART # 024C8F-31131-24 OR EQUAL	\$1.01	\$3,030.00
136	3000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX012-065D-ALS/900-OFNR OR CORNING PART # 012C8F-31131-24 OR EQUAL	\$0.46	\$1,380.00
137	3000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR MULTIMODE 50/125 OCC PART # DX006-055D-ALS/900-OFNR OR CORNING PART # 006C8F-31131-24 OR EQUAL	\$0.24	\$720.00

138	3000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX048-095K-ALS/900-OFNP OR CORNING PART # 048CWP-T4131D20 OR EQUAL	\$2.01	\$6,030.00
139	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX024-070K-ALS/900-OFNP OR CORNING PART # 024C8P-31131-29 OR EQUAL	\$0.91	\$2,730.00
140	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX012-060K-ALS/900-OFNP OR CORNING PART # 012C8P-31131-29 OR EQUAL	\$0.42	\$1,260.00
141	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED MULTIMODE 50/125 OCC PART # DX006-045K-ALS/900-OFNP OR CORNING PART # 006C8P-31131-29 OR EQUAL	\$0.24	\$720.00
142	3000	FT	FIBER OPTIC CABLE 48-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX48-105D-ALS/900-OFCR-IAD OR CORNING PART # 048CWF-T4131DA1 OR EQUAL	\$2.68	\$8,040.00
143	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX24-085D-ALS/900-OFCR-IAD OR CORNING PART # 024C8F-31131-A1 OR EQUAL	\$1.62	\$4,860.00
144	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O 50UM MULTIMODE ARMORED OCC PART# DX12-065D-ALS/900-OFCR-IAD OR CORNING PART # 012C8F-31131-A1 OR EQUAL	\$1.11	\$3,330.00
145	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O 50UM MULTIMODE ARMORED OCC PART # DX06-055D-ALS/900-OFCR-IAD OR CORNING PART # 006C8F-31131-A1 OR EQUAL	\$1.04	\$3,120.00
146	3000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX48-095K-ALS/900-OFCP-IAK OR CORNING PART # 048CWP-T4131DA1 OR EQUAL	\$2.90	\$8,700.00
147	3000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX24-070K-ALS/900-OFCP-IAK OR CORNING PART # 024C8P-31131-A3 OR EQUAL	\$1.78	\$5,340.00

			FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR		
148	3000	FT	ARMORED PLENUM COATED 50UM MULTIMODE	1 1	
1.10			OCC PART # DX12-060K-ALS/900-OFCP-IAK OR	¢1 17	60 540 00
			CORNING PART # 012C8P-31131-A3 OR EQUAL	\$1.17	\$3,510.00
			FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR	1 1	
149	3000	FT	ARMORED PLENUM COATED 50UM MULTIMODE	1 1	
149	3000		OCC PART # DX06-050K-ALS/900-OFCP-IAK OR		
			CORNING PART # 006C8P-31131-A3 OR EQUAL	\$0.99	\$2,970.00
			FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL/DUCT		
150	3000	FT	MULTIMODE 50/125	1 1	
150	3000	F1	OCC PART # DX012-075A-ALS/900 OR		
			CORNING PART # 012CW4-T4131D20 OR EQUAL	\$0.45	\$1,350.00
			FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL		
454	2000		W/MESSENGER MULTIMODE 50/125	1	
151	3000	FT	OCC PART # M12-090A-ALS/900-JGS OR		
			CORNING PART # 012CWA-T4131D20 OR EQUAL	\$0.79	\$2,370.00
			FIBER OPTIC CABLE 24-STRAND I/O SINGLEMODE 9/125		
152	3000	FT	OCC PART # DX24-085D-SLX/900-OFNR-WB OR	8	
			CORNING PART # 024E8F-31131-24 OR EQUAL	\$0.58	\$1,740.00
			FIBER OPTIC CABLE 12-STRAND I/O SINGLEMODE 9/125		
153	3000	FT	OCC PART # DX12-065D-SLX/900-OFNR-WB OR		
			CORNING PART # 012E8F-31131-24 OR EQUAL	\$0.23	\$690.00
			FIBER OPTIC CABLE 6-STRAND I/O SINGLEMODE 9/125		
154	3000	FT	OCC PART # DX06-055D-SLX/900-OFNR-WB OR	1	
			CORNING PART # 006E8F-31131-24 OR EQUAL	\$0.15	\$450.00
			FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED		
455	2000		SINGLEMODE 9/125	1 1	
155	3000	FT	OCC PART # DX24-070K-SLX/900-OFNP-WB OR		~ .
			CORNING PART # 024E8P-31131-29 OR EQUAL	\$0.58	\$1,740.00
			FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED		
450	2000		SINGLEMODE 9/125	1 1	
156	3000	FT	OCC PART # DX12-060K-SLX/900-OFNP-WB OR		
			CORNING PART # 012E8P-31131-29 OR EQUAL	\$0.24	\$720.00
			FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED		
4.55			SINGLEMODE 9/125	1	
157	3000	FT	OCC PART # DX06-045K-SLX/900-OFNP-WB OR	1 1	
	1	1	CORNING PART # 006E8P-31131-29 OR EQUAL	\$0.15	\$450.00
		Ì	FIBER OPTIC CABLE 24-STRAND I/O ARMORED		
450			SINGLEMODE 9/125		
158	3000	FT	OCC PART # DX24-085D-SLX/900-OFCR-IAD OR		
			CORNING PART # 024E8F-31131-A1 OR EQUAL	\$1.19	\$3,570.00

159	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX12-070D-SLX/900-OFCR-IAD OR CORNING PART # 012E8F-31131-A1 OR EQUAL	\$0.97	\$2,910.00
160	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX06-060D-SLX/900-OFCR-IAD OR CORNING PART # 006E8F-31131-A1 OR EQUAL	\$0.84	\$2,520.00
161	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX24-070K-SLX/900-OFCP-IAK OR CORNING PART # 024E8P-31131-A3 OR EQUAL	\$1.21	\$3,630.00
162	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX12-060K-SLX/900-OFCP-IAK OR CORNING PART # 012E8P-31131-A3 OR EQUAL	\$1.04	\$3,120.00
163	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125 OCC PART # DX06-050K-SLX/900-OFCP-IAK OR CORNING PART # 006E8P-31131-A3 OR EQUAL	\$0.89	\$2,670.00
164	2000	FT	OCC FIBER OPTIC HYBRID CABLE 96 FIBER ARMORED PLENUM COATED (48 STRAND MULTI-MODE 50/125 & 48 STRAND SINGLEMODE 9/125) OCC PART# DX96-140K-48ALS-48SLX/900-OFCP-IAK OR EQUAL	\$3.65	\$7,300.00
165	2000	FT	FIBER OPTIC HYBRID CABLE 48 FIBER ARMORED PLENUM COATED (24 STRAND MULTI-MODE 50/125 & 24 STRAND SINGLEMODE 9/125) OCC PART # DX48-095K-24ALS-24SLX/900-OFCP-IAK OR CORNING PART # 048XWP-T41XXD20 OR EQUAL	\$2.65	\$5,300.00
166	2000	FT	FIBER OPTIC HYBRID CABLE 24 FIBER ARMORED PLENUM COATED (12 STRAND MULTI-MODE 50/125 & 12 STRAND SINGLEMODE 9/125) OCC PART # DX24-075K-12ALS-12SLX/900-OFCP-IAK OR CORNING PART # 024X8P-311XX-A3 OR EQUAL	\$1.71	\$3,420.00
167	2000	EA	SIECOR SC MM 62.5UM CONNECTORS, PART # 95-000-40 OR EQUAL	\$8.46	\$16,920.00
168	1000	EA	SIECOR ST MM 62.5UM CONNECTORS, PART # 95-000-50 OR EQUAL	\$8.46	\$8,460.00
169	500	EA	SIECOR SC MM 50UM CONNECTORS, PART# 95-050-41 OR EQUAL	\$11.41	\$5,705.00

170	500	EA	SIECOR ST MM 50UM CONNECTORS, PART# 95-050-51 OR EQUAL	\$11.41	\$5,705.00
171	500	EA	SIECOR SC SM CONNECTORS, PART# 95-200-41 OR EQUAL	\$12.37	\$6,185.00
172	500	EA	SIECOR ST SM CONNECTORS, PART# 95-200-51 OR EQUAL	\$12.37	\$6,185.00
173	20	EA	MULTILINK 1U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-1RU-2X-SO OR EQUAL	\$70.00	\$1,400.00
174	20	EA	MULTILINK 2U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-2RU-4X-SO OR EQUAL	\$88.18	\$1,763.60
175	20	EA	MULTILINK 3U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-3RU-9X-TS OR EQUAL	\$115.00	\$2,300.00
176	20	EA	MULTILINK 6-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-06-P-BLK OR EQUAL	\$21.40	\$428.00
177	20	EA	MULTILINK 6-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-06-MM-P-BLK OR EQUAL	\$27.88	\$557.60
178	20	EA	MULTILINK 8-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-08-P-BLK OR EQUAL	\$24.25	\$485.00
179	20	EA	MULTILINK 8-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-08-MM-P-BLK OR EQUAL	\$24.25	\$485.00
180	20	EA	MULTILINK 12-PORT ST MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-12-P-BLK OR EQUAL	\$41.00	\$820.00
181	20	EA	MULTILINK 12-PORT SC MM/SM MODULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-12-MM-P-BLK OR EQUAL	\$41.00	\$820.00
182	20	EA	MULTILINK BLANK MODULE; FITS RACK MOUNT ENCLOSURES MULTILINK PART # MFMB-600BB-BLK OR EQUAL	\$3.02	\$60.40
183	20	EA	LEVITON 1U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R1UA-A03 OR EQUAL	\$70.00	\$1,400.00
184	20	EA	LEVITON 2U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R2UA-A06 OR EQUAL	\$88.18	\$1,763.60
185	20	EA	LEVITON 3U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R3UA-A12 OR EQUAL	\$115.76	\$2,315.20
186	20	EA	LEVITON SMALL EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 8"HIGH X 13"WIDE X 3.5"DEEP LEVITON PART# 5W110-00N OR EQUAL	\$59.72	\$1,194.40

			LEVITON MEDIUM EMPTY FIBER WALL MOUNT ENCLOSURE		
187	20	EA	ONLY 14"HIGH X 12"WIDE X 5.25" DEEP	A70.57	******
			LEVITON PART# 5W310-00N OR EQUAL	\$79.57	\$1,591.40
188	20	EA	LEVITON LARGE EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 17" HIGH X 15" WIDE X 5.25" DEEP	1 1	
100	20	LA	LEVITON PART# 5W710-00N OR EQUAL	\$157.70	\$3,154.00
			LEVITON ST FIBER 6-PACK TO FIT EITHER WALL MOUNT		
189	50	EA	OR RACKMOUNT ENCLOSURES ONLY	1 1	
W1092-0504		Manage Control	LEVTION PART# 5F100-1ST OR EQUAL	\$21.40	\$1,070.00
			LEVITON SC FIBER 6-PACK TO FIT EITHER WALL MOUNT		
190	50	EA	OR RACKMOUNT ENCLOSURES ONLY	207.00	
			LEVTION PART# 5F100-3SC OR EQUAL	\$27.88	\$1,394.00
191	50	EA	LEVITON BLANK 6-PACK FOR FIBER ENCLOSURES	\$3.02	\$151.00
	-	-	LEVITON PART# 5F100-BPP OR EQUAL LEVITON SC FIBER 8-PACK TO FIT EITHER WALL MOUNT	Ψ5.02	φ151.00
192	50	EA	OR RACKMOUNT ENCLOSURES		
132	30		LEVITON PART# 5F100-8SC OR EQUAL	\$0.01	\$0.50
			LEVITON SC FIBER 12-PACK TO FIT EITHER WALL MOUNT		
193	50	EA	OR RACKMOUNT ENCLOSURES	250 H 12 P2580	
			LEVITON PART# 5F100-CSC OR EQUAL	\$41.00	\$2,050.00
194	50	EA	SIECOR ST CONNECTOR PANEL,	000.77	04 400 50
			PART # WIC-CP1-25 OR EQUAL	\$28.77	\$1,438.50
195	50	EA	SIECOR SC CONNECTOR PANEL, PART # WIC-CP1-56 OR EQUAL	\$28.77	\$1,438.50
	 		SIECOR WALL MOUNT FIBER ENCLOSURE,	\$20r	VI, IOSIO
196	30	EA	PART # WIC-012 OR EQUAL	\$57.53	\$1,725.90
107	400		DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
197	100	EA	1 METER ST TO ST	\$4.65	\$465.00
198	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		1900 A TOMBO ST 1900 CO
130	100		1 METER ST TO SC	\$4.65	\$465.00
199	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$4.65	\$465.00
			1 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$4.00	\$465.00
200	100	EA	1 METER LC TO ST	\$5.65	\$565.00
			DUPLEX FIBER OPTIC JUMPERS, 62.5/125	1000	•
201	100	EA	1 METER LC TO SC	\$5.65	\$565.00
000	400		DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
202	100	EA	1 METER LC TO LC	\$6.13	\$613.00
203	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	200 0 0	
200	100		1 METER SC TO MTRJ	\$1.00	\$100.00
204	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	64.00	0400.00
			1 METER LC TO MTRJ	\$1.00	\$100.00

			DUDLEY FIRED OPTIC HUMPERS 63 5/125		
205	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO ST	\$5.27	\$527.00
			DUPLEX FIBER OPTIC JUMPERS, 62.5/125	70	
206	100	EA	2 METER ST TO SC	\$5.27	\$527.00
			DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
207	100	EA	2 METER SC TO SC	\$5.27	\$527.00
200	100	ΕΛ	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
208	100	EA	2 METER LC TO ST	\$6.26	\$626.00
209	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
209	100	LA	2 METER LC TO SC	\$6.26	\$626.00
210	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	20.75	
210	100		2 METER LC TO LC	\$6.75	\$675.00
211	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	04.00	2422.22
			2 METER SC TO MTRJ	\$1.00	\$100.00
212	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$1.00	\$100.00
			2 METER LC TO MTRJ	\$1.00	\$100.00
213	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO ST	\$5.90	\$590.00
			DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$0.00	ψοσο.σο
214	100	EA	3 METER ST TO SC	\$5.90	\$590.00
			DUPLEX FIBER OPTIC JUMPERS, 62.5/125	73.00	
215	100	EA	3 METER SC TO SC	\$5.90	\$590.00
	100		DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
216	100	EA	3 METER LC TO ST	\$6.80	\$680.00
217	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
217	100	EA	3 METER LC TO SC	\$6.80	\$680.00
218	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125		
210	100	LA	3 METER LC TO LC	\$7.37	\$737.00
219	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	22	
210	100	LA	3 METER SC TO MTRJ	\$1.00	\$100.00
220	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125	04.00	
			3 METER LC TO MTRJ	\$1.00	\$100.00
221	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$4.55	0455.00
		-	1 METER ST TO ST	\$4.55	\$455.00
222	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$4.55	\$455.00
		-	1 METER ST TO SC	φ4.00	φ400.00
223	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$4.55	\$455.00
	-	-	1 METER SC TO SC	Ψ4.00	φ403.00
224	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO ST	\$5.25	\$525.00
			I METER LOTOST	φυ.Ζυ	φ525.00

	100		DUPLEX FIBER OPTIC JUMPERS, 50/125		
225	100	EA	1 METER LC TO SC	\$5.25	\$525.00
226	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	47.40	***************************************
220	100		1 METER LC TO LC	\$5.90	\$590.00
227	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$1.00	\$100.00
			1 METER SC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 50/125	\$1.00	\$100.00
228	100	EA	1 METER LC TO MTRJ	\$1.00	\$100.00
222	100		DUPLEX FIBER OPTIC JUMPERS, 50/125		
229	100	EA	2 METER ST TO ST	\$5.17	\$517.00
230	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125		NO. 23 11 11 12 12 12 12 12 12 12 12 12 12 12
230	100		2 METER ST TO SC	\$5.17	\$517.00
231	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$5.17	\$517.00
	W 20-20		2 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$5.17	\$517.00
232	100	EA	2 METER LC TO ST	\$5.88	\$588.00
			DUPLEX FIBER OPTIC JUMPERS, 50/125		
233	100	EA	2 METER LC TO SC	\$5.88	\$588.00
234	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125		
204	100		2 METER LC TO LC	\$6.52	\$652.00
235	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$1.00	\$100.00
			2 METER SC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 50/125	\$1.00	\$100.00
236	100	EA	2 METER LC TO MTRJ	\$1.00	\$100.00
270828			DUPLEX FIBER OPTIC JUMPERS, 50/125		
237	100	EA	3 METER ST TO ST	\$5.80	\$580.00
238	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125		
230	100	LA	3 METER ST TO SC	\$5.80	\$580.00
239	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$5.80	\$580.00
			3 METER SC TO SC	\$3.80	\$360.00
240	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO ST	\$6.50	\$650.00
	-		DUPLEX FIBER OPTIC JUMPERS, 50/125		•
241	100	EA	3 METER LC TO SC	\$6.50	\$650.00
242	100	ΕΛ	DUPLEX FIBER OPTIC JUMPERS, 50/125		
242	100	EA	3 METER LC TO LC	\$7.15	\$715.00
243	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	21.22	
270	1.00		3 METER SC TO MTRJ	\$1.00	\$100.00
244	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125	\$1.00	6400.00
			3 METER LC TO MTRJ	\$1.00	\$100.00

245	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO ST	\$5.45	\$545.00
246	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO SC	\$5.45	\$545.00
247	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO SC	\$5.45	\$545.00
248	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO ST	\$6.10	\$610.00
249	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO SC	\$6.10	\$610.00
250	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO LC	\$6.15	\$615.00
251	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO MTRJ	\$1.00	\$100.00
252	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO MTRJ	\$1.00	\$100.00
253	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO ST	\$6.07	\$607.00
254	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO SC	\$6.07	\$607.00
255	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO SC	\$6.07	\$607.00
256	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO ST	\$6.72	\$672.00
257	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO SC	\$6.72	\$672.00
258	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO LC	\$6.77	\$677.00
259	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO MTRJ	\$1.00	\$100.00
260	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO MTRJ	\$1.00	\$100.00
261	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO ST	\$6.60	\$660.00
262	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO SC	\$6.60	\$660.00
263	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER SC TO SC	\$6.60	\$660.00
264	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO ST	\$7.19	\$719.00

265	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO SC	\$7.19	\$719.00
266	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO LC	\$7.40	\$740.00
267	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER SC TO MTRJ	\$1.00	\$100.00
268	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO MTRJ	\$1.00	\$100.00
269	20	EA	ALLIED TELESYN ST TO RJ45 FEMALE FIBER MEDIA CONVERTER 10/100MEG PART# AT-FS201 OR EQUAL	\$90.00	\$1,800.00
270	20	EA	ALLIED TELESYN CENTRE COM MC13 UTP/FIBER ST 10MBPS MEDIA CONVERTER PART# ATMC13-10 OR EQUAL	\$104.00	\$2,080.00
271	20	EA	TRANSITION NETWORKS ETHERNET 10BASE-T TO 10BASE-FL STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-TBT-FRL-05 OR EQUAL	\$105.26	\$2,105.20
272	20	EA	TRANSITION NETWORKS FAST ETHERNET 100BASE-TX TO 100BASE-FX STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-100BTX-FX-05 OR EQUAL	\$90.00	\$1,800.00

TOTAL COST OF ALL ITEMS

\$940,402.30

CABLE12 Statewide Contract

TOTAL EVALUATED BID PRICE SHEET

TOTAL COST OF ALL ITEMS

\$940,402.30

INSIDE DELIVERY CHARGE

\$ 125.00 for Hour

MINIMUM OF 1 HOUR

TOTAL EVALUATED BID PRICE

\$940,402.30



Rev. 09/08

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

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

Division	will make the determination of the Resident vendor Preference, if application
Ι,	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-
	Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the business continuously in West Virginia for four (4) years immediately maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately
	Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) wears immediately preceding the date of this certification; or,
2.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state centing of the two years immediately preceding submission of this bid; or,
4.	Application is made for 5% resident vendor preference for the reason checked: Application is made for 5% resident vendor preference for the reason checked: Application is made for 5% resident vendor preference for the reason checked:
5.	Application is made for 3.5% resident vendor preference who is a veteral for the reason when the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran for the reason of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard Bidder is an individual resident vendor who is a veteran of the United States armed forces.
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked. Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and purposes of producing or distributing the commodities or completing the project which is the vendor's employees are continuously over the relief who have resided in the state continuously for the two immediately preceding years.
requi agair	er understands if the Secretary of Revenue determines that a Bidder receiving preference has talled to be a sees a penalty rements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty rements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty remember of the secretary may order that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency as such as such as a such
By su author the re	ubmission of this certificate, Bidder agrees to disclose any reasonably requested information to the Valentian Bidder has paid prizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid prizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid prize to the Department of the Purchasing appropriate information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amount of taxes paid nor any other information does not contain the amounts of taxes paid nor any other information does not contain the amount of taxes paid nor any other information does not contain the amount of taxes paid nor any other information does not
Und	er penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder nereby certifies that this detailed er penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder nereby certifies that this detailed er penalty of law for false swearing provided in the contract is issued to Bidder and if anything contained within this certificate accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate
Bidd	der:
Date	2: 5-15-12 Title: Sques 1008
*Che	ck any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. CABLE 13

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 owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

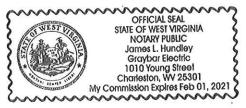
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due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

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

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

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

WITNESS THE FOLLOWING SIGNATURE	
Vendor's Name: GRAYBAR ELEGIRIC	
Authorized Signature: Kein Hyp	Date: 5/0/1
State of West Virginia	
County of Kanawha , to-wit:	
Taken, subscribed, and sworn to before me this 10 day of	of May, 2012.
My Commission expires Feb	, 20 <u>21</u> .
AFFIX SEAL HERE	NOTORY PUBLIC James & Hundley
(p)	igl(



Gen SPEED® 5000 Category 5e Cable

Features And Benefits

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

Applications

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

Standard Compliances

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













24 AWG solid bare annealed copper

Insulation

• Non-Plenum: Polyolefin • Plenum: Fluoropolymer

Rip Cord

Applied longitudinally under jacket

Color Code

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

Jacket

Non-Plenum: Flame-Retardant PVC

 Plenum: Low-Smoke, Flexguard[®] Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0,200	0.180
Nominal Cable Weight (lbs/1000ft)	21	19
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (*C) Installation: Operation:	0 to +60 -20 to +75	0 to +60 -20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

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

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

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



Data subject to change without notice.

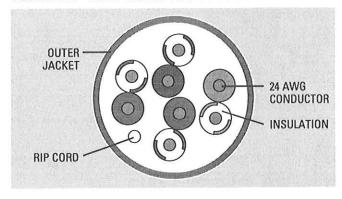


Gen SPEED® 5000 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32,8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	=
200	N <u>en</u> -		32.4	27.8	30.8	14.8	17.8	
250		_	36.9	26.3	29.3	12.8	15.8	-
300	_	_	41.0	25.1	28.1	11.3	14.3	_
350			44.9	24.1	27.1	9.9	12.9	_

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

Gen SPEED® 5000 CATEGORY 5e CROSS-SECTION



ELECTRICAL CHARACTERISTICS

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

Gen SPEED® 5500 Premium Category 5e Cable

Features And Benefits

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

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- IEEE 802.3at DTE for PoE Plus
- Broadband and Baseband Analog Video

Standard Compliances

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













Data subject to change without notice.



Conductors

- 23 AWG CMR solid bare annealed copper
- 24 AWG CMP solid bare annealed copper

- · Non-Plenum: Polyolefin
- · Plenum: Fluoropolymer

Color Code

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

Rip Cord

Applied longitudinally under jacket

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

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.220	0,190
Nominal Cable Weight (lbs/1000 ft)	24	21
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C) Installation: Operation:	0 to +60 -20 to +75	0 to +60 -20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

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

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

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





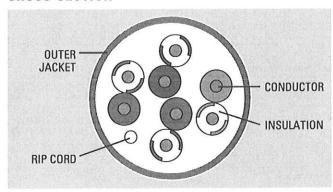
Enhanced Transmission Throughput

Gen SPEED® 5500 ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)
1	66.3	68.3	2.0	68.3	70.3	62.0	65.0	20.0
4	55.4	57.4	3.9	59.3	61.3	50.0	53.0	23.0
10	47.1	49.1	6.2	53.3	55.3	42.0	45.0	25.0
16	42.3	44.3	7.9	50.2	52.2	37.9	40.9	25.0
20	39.9	41.9	8.9	48.8	50.8	36.0	39.0	25.0
25	37.4	39.4	10.0	47.3	49.3	34.0	37.0	24.3
31.25	34.7	36.7	11.2	45.9	47.9	32.1	35.1	23.6
62.5	25.1	27.1	16.3	41.4	43.4	26.1	29.1	21.5
100	17.3	19.3	21.0	38.3	40.3	22.0	25.0	20.1
155	8.6	10.6	26.9	35.4	37.4	18.2	21.2	18.8
200	2.8	4.8	31.0	33.8	35.8	16.0	19.0	18.0
250	_	-	35.3	32.3	34.3	14.0	17.0	17.3
300	_	_	39,2	31.1	33.1	12.5	15.5	16.8
350	_	-	42.9	30.1	32.1	11.1	14.1	16.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C, *PSACR & ACR not specified in ANSI/TIA 568-C.2

Gen*SPEED*[®] 5500 PREMIUM CATEGORY 5e CROSS-SECTION



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

Gen SPEED® 6000 Enhanced Category 6 Cable

Features And Benefits

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

Applications

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

Standard Compliances

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













Data subject to change without notice.



CONSTRUCTION

Conductors

• 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: PolyolefinPlenum: Fluoropolymer
- 21 0 1

Color Code

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

Separator

· Cross-web

Rip Cord

· Applied longitudinally under jacket

Jacket

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

PHYSICAL DATA

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

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

	Pull-P	ac [®] II	Spool	-Pac [⊚]	Spool		
Jacket Color	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	
Blue	7133900	7131900	7133940	7131940	7133960	7131960	
White	7133901	7131901	7133941	7131941	7133961	7131961	
Yellow	7133902	7131902	7133942	7131942	7133962	7131962	
Gray	7133903	7131903	7133943	7131943	7133963	7131963	
Red	7133904	7131904	7133944	7131944	7133964	7131964	
Orange	7133905	7131905	7133945	7131945	7133965	7131965	
Green	7133906	7131906	7133946	7131946	7133966	7131966	
Black	7133907	7131907	7133947	7131947	7133967	7131967	
Pink	7133908	7131908	7133948	7131948	7133968	7131968	
Purple	7133909	7131909	7133959	7131959	7133969	7131969	

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

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



Optimally Balanced Enhanced Performance

GenSPEED® 6000 Electrical Performance

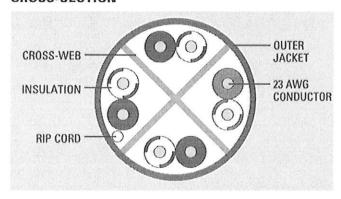
Frequency MHz PSACR* (min)		ACR* (min)	Insertion Loss (max)		PSNEXT (min)		NEXT (min)	
	Guaranteed	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed
1	75.3	77.3	2.0	2.0	72.3	77.3	74.3	79.3
4	64.5	66.5	3.8	3.8	63.3	68.3	65.3	70.3
10	56.4	58.4	6.0	5.9	57.3	62.3	59.3	64.3
16	51.7	53.8	7.6	7.5	54.2	59.3	56.2	61.3
20	49.4	51.4	8.5	8.4	52.8	57.8	54.8	59.8
31.25	44.3	46.3	10.7	10.6	49.9	54.9	51.9	56.9
62.5	35,1	37,1	15.4	15.3	45.4	50.4	47.4	52.4
100	27.6	29.6	19.8	19.7	42.3	47.3	44.3	49.3
150	20.0	22.0	24.7	24.7	39.7	44.7	41.7	46.7
200	13.8	15.8	29.0	29.0	37.8	42.8	39.8	44.8
250	8.7	10.7	32.8	32.6	36.3	41.3	38.3	43.3
350		1.7		39.5	_	39.2	_	41.2
500		_	_	48.6	_	36.8	_	38.8

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only. PSACR & ACR not specified in ANSI/TIA 568-C.2

Frequency MHz			F (min)) Return Loss (min)		TCL (min)		ELTCTL (min)		
	TIA 568-C,2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed	TIA 568-C.2	Guaranteed
1	64.8	69.8	67.8	72.8	20.0	20.0	40.0	40.0	35.0	35.0
4	52.8	57.7	55.7	60.7	23.0	23.6	40.0	40.0	23.0	23.0
10	44.8	49.8	47.8	52.8	25.0	26.0	40.0	40.0	15.0	15.0
16	40.7	45.7	43.7	48.7	25.0	26.0	38.0	38.0	10.9	10.9
20	38.8	43.7	41.7	46.7	25.0	26.0	37.0	37.0	9.0	9.0
31.25	34.9	39.9	37.9	42.9	23.6	25.0	35.1	35.1	_	5.1
62.5	28.9	33.8	31.8	36.8	21.5	23.5	32.0	32.0		5.0
100	24.8	29.8	27.8	32.8	20.1	22.5	30.0	30.0		5.0
150	21.3	26.3	24.3	29.3	18.9	21.6	28.2	28.2	_	5.0
200	18.8	23.8	21.8	26.8	18.0	21.0	27.0	27.0		5.0
250	16.8	21.8	19,8	24.8	17.3	20.5	26.0	26.0	_	5.0
350		18.9	_	21.9		19.8	-	_		
500	-	15.8		18.8	****	19.0		I - I	-	

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.

Genspeed® 6000 ENHANCED CATEGORY 6 CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max Ohms/100 m (328 ft)	Norman and the second of the s	8.9
DC Resistance Unba Individual Pair %	3.0	
Delay Skew (max) ns/100 m		CMP: 35 CMR: 40
Nom. Velocity of Pro % Speed of Light	CMP: 70 CMR: 68	
Characteristic Imper Frequency (f):	dance 1-500 MHz	Ohms 100 ± 15