

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

Request for

RFQ NUMBER CABLE12

ADDRESS CORRESPONDENCE TO ATTENTION OF:

ADDRESS CHANGES TO BE NOTED ABOVE

KRISTA FERRELL 04-558-2596

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

*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET

DUNBAR WV 25064

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. **FREIGHT TERMS** 10/14/2011 BID OPENING DATE: 01:30PM 11/16/2011 BID OPENING TIME CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT NO 70 IS 0001 285-10 1 COMPUTER DATA CABLE (COPPER/FIBER) & FITTINGS REQUEST FOR QUOTATION (RFQ) BLANKET OPEN END STATEWIDE CONTRACT THE WEST VIRGINIA STATE PURCHASING DIVISION IS SOLICITING BIDS TO ESTABLISH A BLANKET OPEN END STATEWIDE CONTRACT FOR COMPUTERS DATA CABLE (COPPER/ FIBER) AND FITTINGS FOR ALL WEST VIRGINIA STATE RECEIVED AGENCIES AND PARTICIPATING POLITICAL SUBDIVISIONS. TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST 201 NOV 16 A 8: 40 卦E SUBMITTED IN WRITING TO KRISTA FERR財LL IN THE WEST TRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558 CREMASING DIVISION STATE OF WV 115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS OCTOBER 26. 2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY rormal written addendum to be issued after the deadline HAS LAPSED. VERBAL COMMUNICATION: ANY VERBAL COMMUNICATION BETWEEN THE VENDOR AND ANY STATE PERSONNEL IS NOT BINDING, INCLUDING THOSE MADE DURING THE MANDATORY PRE-BID ONLY INFORMATION ISSUED IN WRITING AND ADDED †o the rfq s∲ecif‡catiфns by a formal \ritten addendum SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE →768-360C

55-638-4235



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DATE PRINTED TERMS OF SALE SHIP VIA FOR FREIGHT TERMS 10/14/2011 BID OPENING DATE: 11/16/2011 BID OPENING TIME 01:30PM LINE QUANTITY UOP ITEM NUMBER **AMOUNT** UNIT PRICE HOR BANKRUPTOY PROTECTION, THE STATE MAY DEEM THE 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 THE SUCCESSIUL VENDOR is issued through a bank. 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 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 IGNATURE TELEPHONE 768-3600

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REQUEST FOR QUOTATION: CABLE12 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.

1.0 PURPOSE

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 level of quality.

2.0 DEFINITIONS

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.

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 standards under development such as ATM at 622 Mbps.

- 4 dB Minimum Improvement in Near End Crosstalk vs. TIA/EIA-568-B Category 5.
- ETL Verified to Category 5e.
- •.45 ns/meter Maximum Skew Tightly controlled propagation delay.
- Engineered for Future Applications Tested for all parameters specified...for 4 pair UTP in TIA/EIA-568-B.2, including PS-NEXT, Return Loss, ELFEXT and PS-ELFEXT.

Category 5e Modular Connectors 3.2

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 The connectors shall also be in compliance with TIA/EIA-568-B specifications. 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.

FEATURES

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

PHYSICAL SPECIFICATIONS

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

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

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

DESIGN SPECIFICATIONS

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

INSTALLATION NOTES

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

3.3 Category 5E Plenum & Non-plenum Cable

REFERS TO ITEMS 48 & 49 ON PRICING SHEETS

Minimum specifications:

UNSHIELDED TWISTED PAIR CABLE TESTED TO 400 MHz AND ETL VERIFIED TO CATEGORY 5E. CATEGORY 5E CABLE EXCEEDS TIA/EIA 568-B.2 CAT.5e & ISO/IEC 11801 CAT.5E HORIZONTAL CABLE SPECS. THIS CAT.5E CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. CAT.5E CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A

TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE **MUST** CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. OUTER JACKET OF CAT.5E CABLE **MUST** BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.5E NON-PLENUM CABLE **MUST** HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.5E PLENUM CABLE **MUST** HAVE "CMP' PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE.

All plenum cable must be 4X4 plenum construction.

- 20 dB Minimum ACR @ 100 MHz Proven support for Gigabit Ethernet / 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 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.

3.5 Category 5E Patch Panels

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

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

APPLICATION

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

FEATURES

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

STANDARDS COMPLIANCE

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

PHYSICAL SPECIFICATIONS

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

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

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

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

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

DESIGN SPECIFICATIONS

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

3.6 Category 6 Plenum & Non-plenum Cable

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

DESCRIPTION & MINIMUM SPECIFICATIONS:

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

THE CABLE EXCEEDS TIA/EIA 568-B.2-1 AND ISO/IEC 11801 CATEGORY 6 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. All plenum cable must be 4X4 plenum construction.

SUPPORTED APPLICATIONS

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

INDUSTRY APPROVALS

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

HORIZONTAL CABLE

LISTINGS: PL: UL/cUL TYPE CMP NP: UL/cUL TYPE CMR PERFORMANCE: ETL VERIFIED TO TIA/EIA 568-B.2-1 CAT 6

CONSTRUCTION

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

PL: DUAL INSULATION, FEP ON ALL 4 PAIRSNP: 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)

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

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

ELECTRICAL CHARACTERISTICS

STANDARDS:

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

HORIZONTAL CABLE

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

DCR UNBALANCE: 3% MAX

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

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

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

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

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

RETURN LOSS (RL): $20 + 7 \log_{10}(f) dB MIN (1-10 MHz)$

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

 $\Box f$

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

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

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

POWER SUM EQUAL LEVEL FAR END CROSSTALK (PS-ELFEXT): 28 - 20 log10 (f /100) dB/100m MIN

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

DELTA DELAY (SKEW): 25 ns/100m MAXIMUM SKEW - tightly controlled

propagation delay.

3.8

NOMINAL VELOCITY OF PROPAGATION (NVP): 72% PLENUM

68% NON-PLENUM

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

Category 6 Modular Connectors

REFERS TO ITEM 83 ON PRICING SHEETS

The Category 6 modular connector shall meet or exceed the requirements for channel and component-level performance described in TIA/EIA-568-B.2-1 Category 6 standards. The modular connector shall be individual snap-in style. The connectors shall also be in compliance with all National Electrical Codes; compliant with FCC Part 68; UL listed; and independently verified. In addition to Category 6 compliance, the connector shall have the ability to support high megabit and shared-sheath applications. All plastics used in construction of the connector bodies must be fire-retardant with a UL flammability rating of 94V-0. The Category 6 connector includes unique pair separation towers allowing for quicker and easier terminations. The connector is configured in a 180° configuration such that the punch field is in the back, allowing for rear termination. Termination of all connectors shall be 110-type insulation displacement connectors (IDC). The connector shall provide a ledge directly adjacent to the 110-style termination against which the wires can be directly terminated and cut in one action by the installation 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.

3.9 Category 6 Patch Panels

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

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

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

APPLICATION

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

FEATURES

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

STANDARDS COMPLIANCE

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

PHYSICAL SPECIFICATIONS

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

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

12-port Patch Block – 10.0"H x 2.3"W x 1.474"D Capacity: 12-, 24-, 48-port and 12-Port Patch Block

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

0

DESIGN SPECIFICATIONS

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

4.0 ORDERING PROCEDURES

- 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.
- 4.5 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.

5.0 DELIVERY

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.
- 5.3 All materials ordered by the Office of Technology **must** be delivered to the Capitol Complex in the following timeframes after the receipt of the order (the exact delivery location will be provided when the order is placed):
 - a) If total for materials ordered is \$1,000 or below delivery **must** be within two (2) business hours;
 - b) If total for materials ordered is greater than \$1,000, but less than \$5,000 delivery **must** be within two (2) business days;
 - c) If total for materials ordered is greater than \$5,000 delivery **must** be within five (5) business days.

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:
- Name of the ordering state agency;
- 2. Materials ordered; and
- Total cost expended for that guarter.

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)

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. The cost sheet **must** be completed by each bidder. A vendor should bid on all items listed on the attached cost sheet. Vendor **must** indicate the brand bid for all items.
- 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 on CD and return with bid. An electronic version is available in the WV Purchasing Bulletin to registered vendors by visiting the below link:

http://www.state.wv.us/admin/purchase/newbul.htm

Or, buy emailing Krista.s.ferrell@wv.gov.

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 items **shall** submit descriptive literature and samples.

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

- Manufacturers category 5e cable specifications (Items 45 & 46)
- Manufacturers category 5e RJ45 snap-in connector (Item 47)
- Manufacturers category 5E cable specifications (Items 48 & 49)
- Manufacturers category 5E RJ45 snap-in connector (Item 50)
- Manufacturers category 5E 12-,24-,48-port copper patch panels (Items 72, 73, 74 & 75)
- Manufacturers category 6 cable specifications (Items 81 & 82)
- Manufacturers category 6 RJ45 snap-in connectors (Item 83)
- Manufacturers category 6 12-,24-,48-port copper patch panels (Items 101,102,103,104)
- 8.6.3 These samples **must** 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. Failure to provide descriptive literature and samples may result in the bid being rejected as non-responsive.

9.0 AWARD

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

WV State Cable12 Pricing Contract SPEC BID

			SPEC BID			
						Selling
ITEM NUM.	Quantity	Unit	Description		Selling	Extension Price
1	50	EA	PLASTIC CABLE TIES; 7 15/16" IN LENGTH, 100PK 3-M PART # 3-M06226 OR EQUAL	\$	1.900	\$95.00
2	200	EA	VELCRO TYRAP WIRE TIES; 8" IN LENGTH; HELLERMAN TYTON PART # GT50X80P2 OR EQUAL	\$	0.550	\$110.00
3	500	EA	CABLE SUPPORT J-HOOK; ERICO PART # CAT32 OR EQUAL	\$	1.850	\$925.00
4	200	EA	ELECTRICAL TAPE; 3-M SCOTCH SUPER 88 PART # 88-SUPER-3/4" X 66FT NO SUBSTITUTE BID 3M	\$	3.350	\$670.00
5	50	EA	3M MOLDABLE PUTTY STIX PART # 3M-MPS-2+ OR EQUAL	\$	15.000	\$750.00
6	500	EA	WALL CADDIES; ERICO PART # CATCR50 OR EQUAL	\$	0.450	\$225.00
7	500	EA	SINGLE GANG LOW VOLTAGE MOUNTING BRACKETS; ARLINGTON PART # LV-1 OR EQUAL	\$	0.900	\$450.00
8	30	EA	3/4"W X 25YDS LONG BLACK VELCRO IN A ROLL VELCRO PART# 189645 OR EQUAL	\$	23.000	\$690.00
9	10	EA	3M WIRE MARKER DISPENSER 0 THRU 9 ON A ROLL 3-M PART # STD-0-9 (FILLED) OR EQUAL	\$	28.000	\$280.00
10	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 0 PART# SDR-0 OR EQUAL	\$	1.630	\$48.90
11	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 1 PART# SDR-1 OR EQUAL	\$	1.630	\$48.90
12	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 2 PART# SDR-2 OR EQUAL	\$	1.630	\$48.90
13	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 3 PART# SDR-3 OR EQUAL	\$	1.630	\$48.90
14	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 4 PART# SDR-4 OR EQUAL	\$	1.630	\$48.90
15	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 5 PART# SDR-5 OR EQUAL	\$	1.630	\$48.90
16	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9	\$	1.630	\$48.90
17	30	EA	NUMBER 6 PART# SDR-6 OR EQUAL 3M WIREMARKER NUMBER REFILL FOR STD-0-9	\$	1.630	
18	30	EA	NUMBER 7 PART# SDR-7 OR EQUAL 3M WIREMARKER NUMBER REFILL FOR STD-0-9		245	\$48.90
19	30	EA	NUMBER 8 PART# SDR-8 OR EQUAL 3M WIREMARKER NUMBER REFILL FOR STD-0-9	\$	1.630	\$48.90
20	100	EA	NUMBER 9 PART# SDR-9 OR EQUAL ADJUSTABLE CABLE SUPPORT ERICO PART# CAT425 OR	\$	1.630	\$48.90
			EQUAL	\$	8.100	\$810.00
21	20	EA	PHILLIPS HEAD 3/4" LONG 10-32 RACK SCREWS W/WASHERS 100PK	_	10.000	40.40.00
		-	MIDDLE ATLANTIC PRODUCTS PART # HP OR EQUAL	\$	12.000	\$240.00
22	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS GREAT LAKES PART# 1984-VCM OR EQUAL	\$	175.000	63 500 00
		-	MOUNTING HARDWARE INCLUDED VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS	Ą	175.000	\$3,500.00
23	20	EA	CHATSWORTH PART# 12096-703 OR EQUAL MOUNTING HARDWARE INCLUDED	\$	30.050	\$601.00
		-	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS	Ť	00.000	Ç001.00
	-00	-,	AFCO SYSTEMS PART# ASTCTRG84 OR EQUAL	l		
24	20	EA	(Discontinued) Sub:XDR8401			
			MOUNTING HARWARE INCLUDED	\$	130.430	\$2,608.60
25	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS SOUTHWEST PART# SWE2729BLK OR EQUAL	,	101 000	10.00
		-	MOUNTING HARDWARE INCLUDED	\$	191.000	\$3,820.00
			DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY			
26	40	EA	20" IN WIDTH; & 84" HEIGHT			
20	10		GREAT LAKES PART# GLRR-1984BA OR EQUAL			
			(BID HOFFMAN PART# HOFEDR19FM45U)	\$	110.000	\$4,400.00
			DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK			
27	40	EA	MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY			1
			20" IN WIDTH; & 84" HEIGHT.	\$	221.300	\$8,852.00
			CHATSWORTH PART# 46353-703 OR EQUAL 48" WALL MOUNT SWING OUT RACK;	à	441.300	\$8,852.00
28	10	EA	GREAT LAKES PART # GL48SR OR EQUAL 36" WALL MOUNT SWING OUT RACK;	\$	179.650	\$1,796.50
29	10	EA	GREAT LAKES PART # GL36SR OR EQUAL	\$	165.350	\$1,653.50
30	10	EA	24" WALL MOUNT SWING OUT RACK;		rgygga soe se	
30	10		GREAT LAKES PART # GL24SR OR EQUAL	\$	149.760	\$1,497.60

			SPEC BID		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
31	10	EA	84" NETWORKING CABINET; CABINET WILL INCLUDE THE FOLLOWING; CASTERS, LEVELERS, GROUND LUG, TWO PAIR SQUARE HOLE RAILS, M6 HARDWARE, BOTTOM GLAND, TOP GLAND, 10IN FAN TOP, PERFORATED FRONT DOOR, PERFORATED REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. PART# XDP84-3-150046 OR EQUAL	\$ 2,100.00	\$21,000.00
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 FRONT DOOR, PERFORATED REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. PART# XDP72-3-150012 OR EQUAL	\$ 1,900.00	319,000.00
33	10	EA	84" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 84"H X 29" W X 36" D; GREAT LAKES PART # GL840E-2936WVCC OR EQUAL	\$ 1,965.00) \$19,650.00
34	10	EA	72" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 72"H X 29" W X 36" D; GREAT LAKES PART # 720E-2936WVCC OR EQUAL	\$ 1,670.00	
35	5	EA	48" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 6 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 48"H X 24" W X 32" D;		
36	10	EA	GREAT LAKES PART # GL480E-2432WVCC OR EQUAL STATIONARY SHELVES FOR 19" MOUNTING IN NETWORKING CABINETS; GREAT LAKES PART # 7206-FM OR EQUAL	\$ 1,010.00	
37	20	EA	FAN ASSEMBLY W/FAN GUARDS & THREE 75 CFM FANS FOR NETWORKING CABINETS; GREAT LAKES PART # TPE-24F OR EQUAL	\$ 200.00	
38	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 3/4" WIDTH; 6 FT. LENGTH; DEK is Discontinued Replaced with Wiremold OR EQUAL W-M2800L8-FW	\$ 1.29	
39	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 1 1/2" WIDTH; 6 FT. LENGTH; DEK is Discontinued Replaced with Wiremold OR EQUAL W-M2900L8-FW	\$ 1.65	0 \$1,650.0
40	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 2 1/2" WIDTH; 6 FT. LENGTH; DEK is Discontinued Replaced with Wiremold OR EQUAL W-M2300BAC	\$ 2.45	\$2,450.0
41	1000	FT	RACEWAY MOLDING; TWO-PIECE; NON-METALLIC; Base.Cover 4" WIDTH X 2" DEPTH; OR EQUAL W- M5400TB/W-M5400C	\$ 5.28	0 \$5,280.0
42	20,000	FT	25 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/25PC3P OR EQUAL	\$ 0.78	0 \$15,600.0
43	20,000	ET	50 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/50PC3P OR EQUAL	\$ 1.50	
44	20,000	FT	100 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/100PC3P OR EQUAL	\$ 2.76	
45	100,000	FT	CAT. 5e MIN COMPLIANT PVC CABLE; NON-PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57554 OR EQUAL	\$ 0.08	2 \$8,200.0
46	200,000	FT	CAT. 5e MIN COMPLIANT CABLE; PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57547 OR EQUAL	\$ 0.15	
47	3000	EA	QUICK PORT 8P8C MODULAR RJ45 JACKS FOR CAT5e MIN COMPLIANT; WHITE IN COLOR; LEVITON PART # 5G108-RW5 OR EQUAL	\$ 2.00	

			SPEC BID		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
48	200,000	FT	CAT. 5E ENHANCED CABLE; NON-PLENUM RISER RATED; REEL IN A BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56167 OR EQUAL	\$ 0.090	\$18,000.0
49	300,000	FT	CAT. 5E ENHANCED CABLE; PLENUM; REEL IN A BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56168 OR EQUAL	\$ 0.179	\$53,700.6
50	3,000	EA	LEVITON QUICKPORT 8P8C MODULAR RJ45 JACKS FOR CAT5E ENHANCED; ORANGE IN COLOR; LEVITON PART # 5G110-RO5 OR EQUAL	\$ 2.700	\$8,100.0
51	200	EA	CAT 5E ENHANCED 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 553-130-001 OR EQUAL	\$ 1.560	\$312.0
52	200	EA	CAT 5E ENHANCED 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-003 OR EQUAL	\$ 1.250	\$250.0
53	200	EA	CAT 5E ENHANCED 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-005 OR EQUAL	\$ 1.550	\$310.0
54	200	EA	CAT 5E ENHANCED 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-007 OR EQUAL	\$ 1.900	\$380.0
55	200	EA	CAT 5E ENHANCED 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-010 OR EQUAL	\$ 1.950	\$390.
56	200	EA	CAT 5E ENHANCED 14FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-014 OR EQUAL	\$ 2.450	\$490.
57	200	EA	CAT 5E ENHANCED 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-025 OR EQUAL	\$ 4.100	\$820.
58	100	EA	CAT 5E ENHANCED 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-050 OR EQUAL	\$ 6.280	\$628.
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	\$ 0.350	\$175.
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	\$ 1.930	\$965,
61	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 3 FOOT LENGTH; LEVITON PART# 5G460-03* (* - COLOR) OR EQUAL	\$ 1.640	
62	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 5 FOOT LENGTH; LEVITON PART# 5G460-05* (* - COLOR) OR EQUAL	\$ 1.860	\$1,860.
63	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 7 FOOT LENGTH; LEVITON PART# 5G460-07* (* - COLOR) OR EQUAL	\$ 2.100	\$4,200.
64	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 10 FOOT LENGTH; LEVITON PART# 5G460-10* (* - COLOR) OR EQUAL	\$ 2.450	\$2,450.
65	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 15 FOOT LENGTH; LEVITON PART# 5G460-15* (* - COLOR) OR EQUAL	\$ 3.200	
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	\$ 2.900	
67	100	EA	(XXX=COLOR) Sub#570-xxx-025 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) Sub#570-xxx-050	\$ 2.900	
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) Sub#570-xxx-100	\$ 8.750	
69	50	EA	LEVITON QUICKPORT HIGH DENSITY 48-PORT PATCH PANEL W/CABLE MANAGEMENT BAR	\$ 43.000	

			SPEC BID		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
70	50	EA	LEVITON QUICKPORT HIGH DENSITY 24-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H24 OR EQUAL	\$ 31.750	\$1,587.50
71	50	EA	LEVITON QUICKPORT HIGH DENSITY 12-PORT PATCH PANEL LEVITON PART# 49255-Q89 OR EQUAL	\$ 8.900	\$445.00
72	100	EA	LEVITON 48-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART# 5G596-U48 OR EQUAL	\$ 139.000	\$13,900.0
73	100	EA	LEVITON 24-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED;	\$ 70.770	\$7,077.0
74	50	EA	LEVITON PART # 5G596-U24 OR EQUAL LEVITON 12-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED;		500000 1000
75	50	EA	LEVITON PART # 5G596-U12 OR EQUAL LEVITON 12-PORT 8P8C RJ45 CAT5E WALL MT. PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED;	\$ 53.450	\$2,672.5
76	100	EA	LEVITON PART # 5G596-U89 OR EQUAL SIEMON 48-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-89D-12	\$ 44.670	\$2,233.5
- 1	10,5,5,5		NO SUBSTITUTE BID SIEMON	\$ 63.900	\$6,390.0
77	200	EA	SIEMON RACK MT. 1U WIRE MANAGER PART# S110-RWM-01 OR EQUAL	\$ 23.000	\$4,600.0
78	20	EA	SIEMON WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; SIEMON WM-144-5 OR EQUAL	\$ 33.750	\$675.0
79	20	EA	3-POSITION HINGED FIXED BRACKETS FOR WALL; DATATEL PART # HPM-2 OR EQUAL	\$ 25.550	\$511.0
80	100	EA	WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; DATATEL PART # HCM-1D OR EQUAL	\$ 17.900	\$1,790.0
81	200,000	FT	CAT 6 ENHANCED CABLE; NON-PLENUM; REEL IN A BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57202 OR EQUAL	\$ 0.140	\$28,000.0
82	300,000	FT	CAT 6 ENHANCED CABLE; PLENUM; REEL IN A BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57193 OR EQUAL	\$ 0.285	\$85,500.0
83	5000	EA	QUICKPORT CAT6 EXTREME 8P8C RJ45 SNAP-IN CONNECTOR; BLUE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE LEVITON PART # 61110-RL6 OR EQUAL	\$ 3.850	\$19,250.0
84	100	EA	CAT 6 EXTREME 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-001P OR EQUAL	\$ 5.110	\$511.0
85	200	EA	CAT 6 EXTREME 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-003P OR EQUAL	\$ 5.490	\$1,098.0
86	100	EA	CAT 6 EXTREME 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-005P OR EQUAL	\$ 5.870	\$587.0
87	200	EA	CAT 6 EXTREME 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-007P OR EQUAL	\$ 6.240	\$1,248.0
88	200	EA	CAT 6 EXTREME 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-010P OR EQUAL	\$ 6.810	\$1,362.0
89	200	EA	CAT 6 EXTREME 15FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-015P OR EQUAL	\$ 7.750	\$1,550.0
90	100	EA	CAT 6 EXTREME 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-025P OR EQUAL	\$ 9.630	\$963.0
91	50	EA	CAT 6 EXTREME 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-050P OR EQUAL	\$ 14.350	\$717.5
92	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-18IN OR EQUAL (XXX=COLOR)	\$ 2.590	\$518.0
93	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 1 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-1 OR EQUAL (XXX=COLOR)	\$ 0.900	\$180.0
94	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 3 FOOT LENGTH; LEVITON PART # 62460-03* (*-COLOR) OR EQUAL	\$ 2.450	

SATE SATERIME PATCH CABLES; RJ45M TO RJ45M; NON- KeYED; 5 FOOT LENGTH;				SPEC BID	I		Selling
100 EA KEYED, 5 FOOT LENGTH; LEVITON PART #6 (2640-05)* ("COLOR) OR EQUAL S 3.250 \$1.200.1	150 9000 0000	Quantity	Unit	Description		Selling	Extension Price
CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- EVEROP, 7 FOOT LENGTH;	95	400	EA	KEYED; 5 FOOT LENGTH;	•	3 250	\$1,300,00
CAT. 6 EXTREME PATCH CABLES; RIJAM TO RIJAMS, NON-	96	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 7 FOOT LENGTH;			\$1,300.00
LEVITON PART # 62460-10" ("COLOR) OR EQUAL \$ 4.320 \$8941	07	200	EΔ	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-	\$	3.870	\$1,548.00
LEUTION PART# 86286-015 (*COLOR) OR EQUAL \$ 5.580 \$5561	37	200	LA.	LEVITON PART # 62460-10* (*-COLOR) OR EQUAL	\$	4.320	\$864.00
SO	98	100	EA	LEVITON PART # 62460-15* (*-COLOR) OR EQUAL	\$	5.560	\$556.00
EA	99	50	EA	KEYED; 20 FOOT LENGTH; LEVITON PART # 62460-20* (*-COLOR) OR EQUAL	\$	6.340	\$317.00
101 50	100	50	EA	KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET	\$	6.560	\$328.00
102 50	101	50	EA	CAT. 6 ENHANCED CERTIFIED;	s	199.870	\$9,993,50
103 50	102	50	EA	LEVITON 24-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED;			
LEVTION 12-PORT 8P8C R.145 CAT 6 WALL MT. PATCH PANEL; MUST BE CAT 6 ENHANCED CERTIFIED; S 62.400 \$3,120.01	103	50	EA	LEVITON 12-PORT PATCH PANEL; MUST BE CAT 6			\$5,100.00
1000	104	50	EA	LEVTION 12-PORT 8P8C RJ45 CAT 6 WALL MT. PATCH	\$	60.130	\$3,006.50
100	105	1000	EA	LEVITON PART# 69586-U89 OR EQUAL 2-PORT SURFACE MOUNT BOX;		(n. Federal)	\$3,120.0
100	106	100	EA	4-PORT SURFACE MOUNT BOX;			\$1,300.00 \$235.00
100	107	100	EA	LEVITON PART# 86014 OR EQUAL	\$	0.250	\$25.00
WALLPLATE; LEVITON PART# 4108W-0SP OR EQUAL \$ 6.000 \$600.000)5 - 7) sa saroas	11,81,81	- 15	LEVITION PART# 88014 OR EQUAL	\$	0.250	\$25.00
111			11/2/11/2/	WALLPLATE; LEVITON PART# 4108W-0SP OR EQUAL 1-PORT WALLPLATES;			\$600.0
110	1000 00	500-4000-400	100000	2-PORT WALLPLATES;			\$475.00 \$950.00
114 50	112	100	EA	3-PORT WALLPLATES; LEVITON PART # 41080-3*P (*-COLOR) OR EQUAL		W 20 CH	\$95.0
114 50 EA LEVITON PART # 41080-6*P (*-COLOR) OR EQUAL \$ 0.950 \$47.50	200	(1.00g) name	90	LEVITON PART # 41080-4*P (*-COLOR) OR EQUAL	\$	0.950	\$95.0
CORNING PART # 048KWF-T4130D20 OR EQUAL \$ 1.000 \$5,000.00 FIBER OPTIC CABLE 24-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX024-085D-WLS/900-OFNR OR CORNING PART # 024K8F-31130-24 OR EQUAL \$ 1.350 \$6,750.00 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 \$ 0.800 \$4,000.00 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 \$ 0.460 \$2,300.00 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 \$ 1.000 \$5,000.00 FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # D48KWP-T4130D20 OR EQUAL \$ 1.000 \$5,000.00 FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX24-075K-WLS/900/OFNP OR	114	50	EA	LEVITON PART # 41080-6*P (*-COLOR) OR EQUAL	\$	0.950	\$47.50
116 5000 FT OCC PART # DX024-085D-WLS/900-OFNR OR CORNING PART # 024K8F-31130-24 OR EQUAL \$ 1.350 \$6,750.00 \$1.000	115	5000	FT	CORNING PART # 048KWF-T4130D20 OR EQUAL	\$	1.000	\$5,000.00
117 5000 FT OCC PART # DX012-065D-WLS/900-OFNR OR CORNING PART # 012K8F-31130-24 OR EQUAL \$ 0.800 \$4,000.0	116	5000	FT	OCC PART # DX024-085D-WLS/900-OFNR OR CORNING PART # 024K8F-31130-24 OR EQUAL	\$	1.350	\$6,750.00
Tiber Optic Cable 6-Strand i/O Multimode 62.5/125	117	5000	FT	OCC PART # DX012-065D-WLS/900-OFNR OR	\$	0.800	\$4,000.00
Tiber 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 \$ 1.000 \$5,000.00	118	5000	FT	OCC PART # DX006-055D-WLS/900-OFNR OR	S	0.460	\$2.300.00
FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX24-075K-WLS/900/OFNP OR	119	5000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX048-095K-WLS/900-OFNP OR			
I IOODAINO DADT # 004/00 00 OD FOLIA! IO 4 000	120	5000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX24-075K-WLS/900/OFNP OR			TOUR MORES NO

			SPEC BID			Selling
ITEM NUM.	Quantity	Unit	Description	Se	lling	Extension Price
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	\$	1.090	\$5,450.00
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	\$	0.600	\$3,000.00
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	\$	1.000	\$5,000.00
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	\$	2.210	\$11,050.00
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	\$	1.550	\$7,750.00
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	s	1.160	\$5,800.00
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	\$	1.990	\$9,950.00
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	\$	3.920	\$19,600.00
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	\$	2.920	\$14,600.00
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	\$	2.280	\$11,400.00
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	\$	1.000	\$3,000.00
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	\$	0.750	\$2,250.00
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	\$	0.750	\$2,250.00
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	\$	0.990	\$2,970.00
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	s	1.150	\$3,450.00
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	\$	0.680	\$2,040.00
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	s	0.380	
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	\$	1.000	

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NUM.	Quantity	Unit	Description	_	Selling	Extension Price
			FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 50/125			
139	3000	FT	OCC PART # DX024-070K-ALS/900-OFNP OR			
			CORNING PART # 024C8P-31131-29 OR EQUAL	\$	1.720	\$5,160.0
			FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED			
140	3000	FT	MULTIMODE 50/125	1		
10000000		10004001	OCC PART # DX012-060K-ALS/900-OFNP OR CORNING PART # 012C8P-31131-29 OR EQUAL	\$	0.950	\$2,850.0
			FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED	۳	0.000	\$2,030.0
	2000		MULTIMODE 50/125	1		
141	3000	FT	OCC PART # DX006-045K-ALS/900-OFNP OR	1		
	-		CORNING PART # 006C8P-31131-29 OR EQUAL	\$	0.550	\$1,650.0
			FIBER OPTIC CABLE 48-STRAND I/O 50UM MULTIMODE	1		
142	3000	FT	ARMORED OCC PART # DX48-105D-ALS/900-OFCR-IAD OR	1		
			CORNING PART # 048CWF-T4131DA1 OR EQUAL	\$	1.000	\$3,000.0
		t -	FIBER OPTIC CABLE 24-STRAND I/O 50UM MULTIMODE	Ť		
143	3000	FT	ARMORED	1		
143	3000	6.6	OCC PART # DX24-085D-ALS/900-OFCR-IAD OR		4.000	
		-	CORNING PART # 024C8F-31131-A1 OR EQUAL	\$	1.980	\$5,940.0
			FIBER OPTIC CABLE 12-STRAND I/O 50UM MULTIMODE ARMORED	1		
144	3000	FT	OCC PART# DX12-065D-ALS/900-OFCR-IAD OR	1		
			CORNING PART # 012C8F-31131-A1 OR EQUAL	\$	1.520	\$4,560.0
		1	FIBER OPTIC CABLE 6-STRAND I/O 50UM			
145	3000	FT	MULTIMODE ARMORED	1		
A STATE OF THE STA	5555	18 18	OCC PART # DX06-055D-ALS/900-OFCR-IAD OR	\$	1.140	\$3,420.0
		-	CORNING PART # 006C8F-31131-A1 OR EQUAL FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR	۴	1.140	\$3,420.0
			ARMORED PLENUM COATED 50UM MULTIMODE	1		
146	3000	FT	OCC PART # DX48-095K-ALS/900-OFCP-IAK OR	1		
			CORNING PART # 048CWP-T4131DA1 OR EQUAL	\$	2.000	\$6,000.0
			FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR			
147 3	3000 FT	FT	ARMORED PLENUM COATED 50UM MULTIMODE	1		1
100-1100			OCC PART # DX24-070K-ALS/900-OFCP-IAK OR CORNING PART # 024C8P-31131-A3 OR EQUAL	\$	3.850	\$11,550.0
_			FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR	Ť	0.000	\$11,000.0
440	2000	3000 FT	ARMORED PLENUM COATED 50UM MULTIMODE	1		
148	3000		OCC PART # DX12-060K-ALS/900-OFCP-IAK OR	12	0.5128	
			CORNING PART # 012C8P-31131-A3 OR EQUAL	\$	2.870	\$8,610.0
	Sincorpared 2011 United States		FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE			
149	3000	FT	OCC PART # DX06-050K-ALS/900-OFCP-IAK OR			
			CORNING PART # 006C8P-31131-A3 OR EQUAL	\$	2.250	\$6,750.0
			FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL/DUCT	T		
150	3000	FT	MULTIMODE 50/125	1		
		1	OCC PART # DX012-075A-ALS/900 OR	\$	0.850	\$2,550.0
		-	CORNING PART # 012CW4-T4131D20 OR EQUAL FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL	ų.	0.000	\$2,550.0
7 de 100 de 1	1000000000		W/MESSENGER MULTIMODE 50/125	1		
151	3000	FT	OCC PART # M12-090A-ALS/900-JGS OR			
			CORNING PART # 012CWA-T4131D20 OR EQUAL	\$	0.750	\$2,250.0
			FIBER OPTIC CABLE 24-STRAND I/O SINGLEMODE 9/125			
152	3000	FT	OCC PART # DX24-085D-SLX/900-OFNR-WB OR	\$	0.880	62.640.7
		-	CORNING PART # 024E8F-31131-24 OR EQUAL FIBER OPTIC CABLE 12-STRAND I/O SINGLEMODE 9/125	13	0.000	\$2,640.0
153	3000	FT	OCC PART # DX12-065D-SLX/900-OFNR-WB OR			
100	""	1	CORNING PART # 012E8F-31131-24 OR EQUAL	\$	0.500	\$1,500.0
			FIBER OPTIC CABLE 6-STRAND I/O SINGLEMODE 9/125	1		
154	3000	FT	OCC PART # DX06-055D-SLX/900-OFNR-WB OR			
		-	CORNING PART # 006E8F-31131-24 OR EQUAL	\$	0.302	\$906.0
		1	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED			l)
155	3000	FT	SINGLEMODE 9/125 OCC PART # DX24-070K-SLX/900-OFNP-WB OR			
			CORNING PART # 024E8P-31131-29 OR EQUAL	\$	1.330	\$3,990.0
			FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED	T		
156	3000	FT	SINGLEMODE 9/125			
100	3000	1 121	OCC PART # DX12-060K-SLX/900-OFNP-WB OR	_	0 310	
		-	CORNING PART # 012E8P-31131-29 OR EQUAL	\$	0.740	\$2,220.
		1	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED SINGLEMODE 9/125			
157	3000	FT	OCC PART # DX06-045K-SLX/900-OFNP-WB OR	1		
	I	1	CORNING PART # 006E8P-31131-29 OR EQUAL	\$	0.460	\$1,380.0

			SPEC BID			Selling
ITEM NUM.	Quantity	Unit	Description		Selling	Extension Price
			FIBER OPTIC CABLE 24-STRAND I/O ARMORED			
158	3000	FT	SINGLEMODE 9/125			
		0.31) 31-	OCC PART # DX24-085D-SLX/900-OFCR-IAD OR CORNING PART # 024E8F-31131-A1 OR EQUAL	\$	1.650	\$4,950.0
			FIBER OPTIC CABLE 12-STRAND I/O ARMORED		11000	\$ 1,000.
159	3000	FT	SINGLEMODE 9/125			
158	3000	L.	OCC PART # DX12-070D-SLX/900-OFCR-IAD OR		4 000	
			CORNING PART # 012E8F-31131-A1 OR EQUAL	\$	1.300	\$3,900.0
			FIBER OPTIC CABLE 6-STRAND I/O ARMORED SINGLEMODE 9/125			
160	3000	FT	OCC PART # DX06-060D-SLX/900-OFCR-IAD OR			
			CORNING PART # 006E8F-31131-A1 OR EQUAL	\$	1.020	\$3,060.
			FIBER OPTIC CABLE 24-STRAND I/O ARMORED PLENUM			
161	3000	FT	RATED SINGLEMODE 9/125			
			OCC PART # DX24-070K-SLX/900-OFCP-IAK OR CORNING PART # 024E8P-31131-A3 OR EQUAL	\$	3.490	\$10,470.
			FIBER OPTIC CABLE 12-STRAND I/O ARMORED PLENUM	-		
162	3000	FT	RATED SINGLEMODE 9/125			1
102	3000	6.7	OCC PART # DX12-060K-SLX/900-OFCP-IAK OR	_		
			CORNING PART # 012E8P-31131-A3 OR EQUAL	\$	2.670	\$8,010.
			FIBER OPTIC CABLE 6-STRAND I/O ARMORED PLENUM RATED SINGLEMODE 9/125			
163	3000	FT	OCC PART # DX06-050K-SLX/900-OFCP-IAK OR			
			CORNING PART # 006E8P-31131-A3 OR EQUAL	\$	2.150	\$6,450.
			OCC FIBER OPTIC HYBRID CABLE 96 FIBER ARMORED			
404	2222		PLENUM COATED (48 STRAND MULTI-MODE 50/125 & 48			
164	2000	FT	STRAND SINGLEMODE 9/125) OCC PART# DX96-140K-48ALS-48SLX/900-OFCP-IAK OR			
			EQUAL	\$	1.980	\$3,960.
			FIBER OPTIC HYBRID CABLE 48 FIBER ARMORED PLENUM	_		40,000
			COATED (24 STRAND MULTI-MODE 50/125 & 24 STRAND			
165	2000	FT	SINGLEMODE 9/125)			1
			OCC PART # DX48-095K-24ALS-24SLX/900-OFCP-IAK OR	\$	2.000	\$4,000.
		_	CORNING PART # 048XWP-T41XXD20 OR EQUAL FIBER OPTIC HYBRID CABLE 24 FIBER ARMORED PLENUM	Ą	2.000	\$4,000.
			COATED (12 STRAND MULTI-MODE 50/125 & 12 STRAND			
166	2000	FT	SINGLEMODE 9/125)			
			OCC PART # DX24-075K-12ALS-12SLX/900-OFCP-IAK OR	_	0.000	8.561
			CORNING PART # 024X8P-311XX-A3 OR EQUAL	\$	2.000	\$4,000.
167	2000	EA	SIECOR SC MM 62.5UM CONNECTORS, PART # 95-000-40 OR EQUAL SUB#CS00761-12	\$	8.500	\$17,000.
400			SIECOR ST MM 62.5UM CONNECTORS, PART # 95-000-50	Ť	0.000	7,11,000
168	1000	EA	OR EQUAL SUB#CS008480-12	\$	8.850	\$8,850.
169	500	EA	SIECOR SC MM 50UM CONNECTORS, PART# 95-050-41 OR			
			EQUAL SUB#CS007611-12	\$	8.500	\$4,250.
170	500	EA	SIECOR ST MM 50UM CONNECTORS, PART# 95-050-51 OR EQUAL SUB#CS008481-12	\$	8.850	\$4,425.
	train at tax	—	SIECOR SC SM CONNECTORS, PART# 95-200-41 OR	Ť	0.000	V1,120.
171	500	EA	EQUAL SUB# CS007609-12	\$	10.750	\$5,375.
172	500	EA	SIECOR ST SM CONNECTORS, PART# 95-200-51 OR EQUAL			
112	000	LA	SUB# CS008479-12	\$	10.950	\$5,475.
173	20	EA	MULTILINK 1U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-1RU-2X-SO OR EQUAL	\$	58.000	\$1,160.
		_	MULTILINK 2U RACKMOUNT FIBER ENCLOSURE	Ť	00.000	ψ1,100.
174	20	EA	MULTILINK PART# FRM-2RU-4X-SO OR EQUAL	\$	80.000	\$1,600.
175	20	EA	MULTILINK 3U RACKMOUNT FIBER ENCLOSURE			
170	20		MULTILINK PART# FRM-3RU-9X-TS OR EQUAL	\$	135.000	\$2,700.
176	20	EA	MULTILINK 6-PORT ST MM/SM MOUDULE;			
176	20	EA	FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-06-P-BLK OR EQUAL	\$	12.250	\$245.
			MULTILINK 6-PORT SC MM/SM MOUDULE;	Ť		
177	20	EA	FITS RACKMOUNT ENCLOSURES			
			MULTILINK PART# MSC-06-MM-P-BLK OR EQUAL	\$	12.250	\$245.
470	-00		MULTILINK 8-PORT ST MM/SM MOUDULE;			
178	20	EA	FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-08-P-BLK OR EQUAL	\$	14.000	\$280.
		 	MULTILINK 8-PORT SC MM/SM MOUDULE;	Ť	11.000	\$200.
179	20	EA	FITS RACKMOUNT ENCLOSURES			
100807CHG	6785388	end 50	MULTILINK PART# MSC-08-MM-P-BLK OR EQUAL	\$	16.600	\$332.
			MULTILINK 12-PORT ST MM/SM MOUDULE;			
180	20	EA	FITS RACKMOUNT ENCLOSURES			

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ITEM NUM.	Quantity	Unit	Description		Selling	Extension Price
181	20	EA	MULTILINK 12-PORT SC MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-12-MM-P-BLK OR EQUAL	\$	25.000	\$500.00
182	20	EA	MULTILINK BLANK MOUDULE; FITS RACKMOUNT ENCLOSURES			
183	20	EA	MULTILINK PART#MFMB-600BB-BLK OR EQUAL LEVITON 1U RACKMOUNT FIBER ENCLOSURE LEVITON PART # 5R1UA-A03 OR EQUAL	\$	80.000	\$44.00 \$1,600.00
184	20	EA	LEVITON 2U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R2UA-A06 OR EQUAL	\$	106.000	\$2,120.00
185	20	EA	LEVITON 3U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R3UA-A12 OR EQUAL	\$	141.000	\$2,820.00
186	20	EA	LEVITON SMALL EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 8"HIGH X 13"WIDE X 3.5"DEEP LEVITON PART# 5W110-00N OR EQUAL	\$	59.000	\$1,180.00
187	20	EA	LEVITON MEDIUM EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 14"HIGH X 12"WIDE X 5.25" DEEP LEVITON PART# 5W310-00N OR EQUAL	\$	80.000	\$1,600.00
188	20	EA	LEVITON LARGE EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 17" HIGH X 15" WIDE X 5.25" DEEP LEVITON PART# 5W710-00N OR EQUAL	\$	152.000	\$3,040.00
189	50	EA	LEVITON ST FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY		Nest Care	
190	50	EA	LEVTION PART# 5F100-1ST OR EQUAL LEVITON SC FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY	\$	18.000	\$900.00
191	50	EA	LEVTION PART# 5F100-3SC OR EQUAL LEVITON BLANK 6-PACK FOR FIBER ENCLOSURES LEVITON PART# 5F100-BPP OR EQUAL	\$	23.000	\$1,150.00 \$140.00
192	50	EA	LEVITON SC FIBER 8-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-8SC OR EQUAL	\$	21.800	\$1,090.00
193	50	EA	LEVITON SC FIBER 12-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-CSC OR EQUAL	s	38.300	\$1,915.00
194	50	EA	SIECOR ST CONNECTOR PANEL, PART # WIC-CP1-25 OR EQUAL SUB# MST-06-P-BLK	\$	13.000	\$650.00
195	50	EA	SIECOR SC CONNECTOR PANEL, PART# WIC-CP1-56 OR EQUAL SUB# MSC-06-MM-P-BLK	\$	13.000	\$650.00
196	30	EA	SIECOR WALL MOUNT FIBER ENCLOSURE, PART # WIC-012 OR EQUAL SUB#MLKWM-2X	\$	39.000	\$1,170.00
197	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER ST TO ST	\$	3.900	\$390.00
198	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER ST TO SC	\$	4.300	\$430.00
199	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO SC	\$	4.050	\$405.00
200	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO ST	\$	4.200	\$420.00
201	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO SC	\$	4.240	\$424.00
202	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO LC	\$	4.500	\$450.00
203	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO MTRJ	\$	1.000	\$100.00
204	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO MTRJ	\$	1.000	\$100.00
205	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO ST	\$	4.230	\$423.00
206	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO SC DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$	3.650	\$365.00
207	100	EA	2 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$	4.240	\$424.00
208	100	EA	2 METER LC TO ST DUPLEX FIBER OPTIC JUMPERS, 62.5/125 DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$	4.000	\$400.00
209	100	EA	2 METER LC TO SC DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$	4.020	\$402.00
210	100	EA	2 METER LC TO LC DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$	4.410	\$441.00
211	100	EA	2 METER SC TO MTRJ	\$	1.000	\$100.00

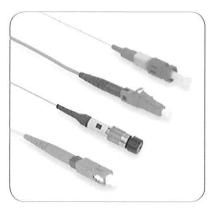
			SPEC BID		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
212	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO MTRJ	\$ 1.000	\$100.00
213	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO ST	\$ 5.200	\$520.00
214	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO SC	\$ 4.600	\$460.00
215	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER SC TO SC	\$ 4.600	\$460.00
216	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO ST	\$ 5.050	\$505.00
217	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO SC	\$ 5.050	\$505.00
218	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO LC	\$ 5.600	\$560.00
219	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER SC TO MTRJ	\$ 1.000	\$100.00
220	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO MTRJ	\$ 1.000	\$100.00
221	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER ST TO ST	\$ 4.350	\$435.00
222	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER ST TO SC	\$ 4.100	\$410.00
223	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO SC	\$ 4.200	\$420.00
224	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO ST	\$ 4.450	\$445.00
225	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO SC	\$ 4.750	\$475.00
226	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO LC	\$ 4.750	\$475.00
227	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO MTRJ	\$ 1.000	\$100.00
228	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 1.000	\$100.00
229	100	EA	2 METER ST TO ST DUPLEX FIBER OPTIC JUMPERS, 50/125 DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 4.190	\$419.00
230	100	EA	2 METER ST TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 3.660	\$366.00
231	100	EA	2 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 4.210	\$421.00
232	100	EA	2 METER LC TO ST DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 4.290	\$429.00
233	100	EA	2 METER LC TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 4.320	\$432.00
234	100	EA	2 METER LC TO LC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 4.440	\$444.00
235	100	EA	2 METER SC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 1.000	\$100.00
236	100	EA	2 METER LC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 1.000	\$100.00
237	100	EA	3 METER ST TO ST DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 5.550	\$555.00
238	100	EA	3 METER ST TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 5.300	\$530.00
239	100	EA	3 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 5.100	\$510.00
240	100	EA	3 METER LC TO ST DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 5.300	\$530.00
241	100	EA	3 METER LC TO SC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 5.700	\$570.00
242	100	EA	3 METER LC TO LC DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 6.200	\$620.00
243	100	EA	3 METER SC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 50/125	\$ 1.000	\$100.00
244	100	EA	3 METER LC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 1.000	\$100.00
245	100	EA	1 METER ST TO ST DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 4.670	\$467.00
246	100	EA	1 METER ST TO SC DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 4.700	\$470.00
247	100	EA	1 METER SC TO SC	\$ 4.700	\$470.00

			SPEC BID]	Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
248	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 5.150	2545.00
249	100	EA	1 METER LC TO ST DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO SC	\$ 5.350	\$515.00 \$535.00
250	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO LC	\$ 5.560	\$556.00
251	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO MTRJ	\$ 1.000	\$100.00
252	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO MTRJ	\$ 1.000	\$100.00
253	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO ST	\$ 4.370	\$437.00
254	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO SC	\$ 4.140	\$414.00
255	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO SC	\$ 4.200	\$420.00
256	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO ST	\$ 4.430	\$443.00
257	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO SC	\$ 4.440	\$444.00
258	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO LC	\$ 4.770	\$477.00
259	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO MTRJ	\$ 1.000	\$100.00
260	100 .	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO MTRJ	\$ 1.000	\$100.00
261	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO ST	\$ 5.500	\$550.00
262	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO SC	\$ 5.230	\$523.00
263	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER SC TO SC	\$ 5.860	\$586.00
264	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO ST	\$ 5.800	\$580.00
265	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO SC	\$ 6.100	\$610.00
266	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO LC	\$ 5.980	\$598.00
267	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER SC TO MTRJ	\$ 1.000	\$100.00
268	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO MTRJ	\$ 1.000	\$100.00
269	20	EA	ALLIED TELESYN ST TO RJ45 FEMALE FIBER MEDIA CONVERTER 10/100MEG PART# AT-FS201 OR EQUAL	\$ 187.000	\$3,740.00
270	20	EA	ALLIED TELESYN CENTRE COM MC13 UTP/FIBER ST 10MBPS MEDIA CONVERTER		
			PART# ATMC13-10 OR EQUAL TRANSITION NETWORKS ETHERNET 10BASE-T TO	\$ 101.000	\$2,020.00
271	20	EA	10BASE-FL STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-TBT-FRL-05 OR EQUAL	\$ 117.000	\$2,340.00
070	20	-A	TRANSITION NETWORKS FAST ETHERNET 100BASE-TX TO 100BASE-FX STAND-ALONE MEDIA CONVERTER;		
272	20	EA	TRANSITION NETWORKS PART# E-100BTX-FX-05 OR EQUAL	\$ 227.000	\$4,540.00
			TOTAL COST OF ITEMS		\$979,579.70
			Cost for INSIDE DELIVERY (Explain)		125.00Hour
			Delivery Cost includes travel time too and from inside delivery 1-hour Mim.		
			TOTAL EVALUATED BID PRICE		

			SPEC BID		
					Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price

THERE WILL NOT BE A SPLIT AWARD FOR THIS CONTRACT.





FuseConnect Connectors (SC, FC, LC, ST)



FuseConnect Packaging



FuseConnect LC Connecters – Duplex Clip Installed



FuseConnect in Fusion Splicer

FuseConnect™ Fusion Spliced Field-Terminated Connectors

AFL's FuseConnect fusion-spliced, field-terminated connectors are uniquely designed and feature just four components. With a factory pre-polished ferrule, its innovative field-termination process eliminates polishing, adhesives, and crimping in the field minimizing the potential for operator error and expensive connector scrap.

FuseConnect utilizes a fusion splicer to terminate the connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance of >65 dB return loss in an SC/APC configuration and SC single-mode is compliant to GR-326-CORE. Designed to work with an industry standard 10 mm cleave length and splicers utilizing a fiber holder system, FuseConnect is compatible with Fujikura fusion splicers and most other fiber holder-based fusion splicing platforms.

FuseConnect 900 µm connectors do not require the optional FuseConnect Installation Kit. They only require the 900 µm FuseConnect fiber holder for installation.

Features

- Field installable
- · Only four components
- · No adhesives, crimping or polishing
- True APC performance
- MM compliant to TIA/EIA568C.3
- Compatible with most fusion splicers

Applications

- Connectorization in:
 - RF-overlay FTTP networks
 - Cable TV backbone networks
 - Outside plant
 - FTTDesk
 - MDU FTTP Cabling
- Central office connector replacement
- Data center installation

Specifications

PARAMETER	VALUE
Connector Type	SC, LC, FC, ST
Cable Type	900 μm, 2 mm, 3 mm
Polish	APC, UPC, PC
Insertion Loss	SM: 0.15 dB (average), 0.3 dB (maximum) / MM: 0.10 dB (average), 0.3 dB (maximum)
Return loss	SM = > 65 dB (APC), > 55 dB (UPC) / MM = > 30 dB (PC)
Operating Temperature	-40°C to +75°C

Ordering Information

		AFL NO.*					
CONN. TYPE	BOOT TYPE	UPC SM (Blue)	APC SM (Green)	PC 62.5 µm MM (Beige)	PC 50.0 µm MM (Black)	PC 50.0 µm 10GIG MM (Aqua)	
SC	900 µm**	CS010247	CS010245	CS010249	CS010251	CS010253	
	2 mm	CS004519	CS004516	CS007794	CS007800	CS007806	
	3 mm	CS004518	CS004515	CS007793	CS007799	CS007805	
LC	900 µm	CS008237	CS010241	CS008243	CS008241	CS008239	
	2 mm	CS008248	CS010242	CS008254	CS008252	CS008250	
FC	900 µm	CS010259	_	CS010261	CS010341	CS010343	
ST	900 µm	CS011251	-	CS011252	CS011253	CS011254	

DESCRIPTION	AFL NO.
LC Duplex Clip (package of 6 clips)	CS010437-06

^{*} AFL NO. is for a single unit

^{* *} FuseConnect SC 900 µm second generation

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

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

1.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the
	ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents
	and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4.	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
requiren against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the nents for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency cted from any unpaid balance on the contract or purchase order.
authorize the requ	nission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and es the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid lired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information I by the Tax Commissioner to be confidential.
and acc	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate is during the term of the contract, Bidder will notify the Purchasing Division/in writing immediately.
Bidder:	SESCO Signed:
Date: _	1-15-11 Title: DAFACOM Sales MANAGER.

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

	CABLE 12
DEO No	CADLE
RFQ No.	

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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



WITNESS THE FOLLOWING SIGNATURE



SIGNATURE

MATACOM ?

Sales MANAGER FEIN

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

Request for Quotation

CABLE12

1

ADDRESS CORRESPONDENCE TO ATTENTION OF

KRISTA FERRELL 04-558-2596

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

*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET

DUNBAR WV 25064

DATE PRINTED TERMS OF SALE SHIP VIA F.O.8. FREIGHT TERMS 10/14/2011 BID OPENING DATE: 11/16/2011 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT 916,172.55 001 IS 285-10 1 COMPUTER DATA CABLE (COPPER/FIBER) & FITTINGS REQUEST FOR QUOTATION (RFQ) BLANKET OPEN END STATEWIDE CONTRACT THE WEST VIRGINIA STATE PURCHASING DIVISION IS SOLICITING BIDS TO ESTABLISH A BLANKET OPEN END STATEWIDE CONTRACT FOR COMPUTERS DATA CABLE (COPPER/ fiber) and fittings for all west virginia state AGENCIES AND PARTICIPATING POLITICAL SUBDIVISIONS. TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558 4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS OCTOBER 26, 2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN ADDENDUM TO BE ISSUED AFTER THE DEADLINE HAS LAPSED. VERBAL COMMUNICATION: ANY VERBAL COMMUNICATION BETWEEN the vendor and any state personnel is not binding, INCLUDING THOSE MADE DURING THE MANDATORY PRE-BID ONLY INFORMATION ISSUED IN WRITING AND ADDED TO THE RFQ SPECIFICATIONS BY A FORMAL WRITTEN ADDENDUM SEE REVERSE SIDE FOR TERMS AND CONDITIONS

TELEPHONE

55-038-4235

304-768-3600

11-15-11



State of West Virginia

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

Request for REQNUMBER

CABLE12

ADDRESS CORRESPONDENCE TO ATTENTION OF: KRISTA FERRELL 304-558-2596

*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET DUNBAR WV 25064

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

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TELEPHONE

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State of West Virginia

Department of Administration

Purchasing Division

2019 Washington Street East

Post Office Box 50130

Charleston, WV 25305-0130

Request for REGNUMBER CABLE 12

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL 304-558-2596

VENDOR

*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET

DUNBAR WV 25064

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

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

Request for REQUIMBER CABLE 12

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*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET KRISTA FERRELL 304-558-2596

DUNBAR WV 25064

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

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ADDRESS CHANGES TO BE NOTED ABOVE

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55-038-4235



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

Request for [

CABLE12

ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL 304-558-2596

*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET

DUNBAR WV 25064 ALL STATE AGENCIES AND POLITICAL SUBDIVISIONS VARIOUS LOCALES AS INDICATED BY ORDER

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VENDOR

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

Request for 1

ADDRESS CORRESPONDENCE TO ATTENTION OF KRISTA FERRELL

304-558-2596

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

ADDRESS CHANGES TO BE NOTED ABOVE

*709040115 01 304-768-3600 SESCO ELECTRONICS DIV STATE EL 405 12TH STREET

DUNBAR WV 25064

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DATE PRINTED TERMS OF SALE SHIP VIA FREIGHT TERMS 10/14/2011 BID OPENING DATE: 11/16/2011 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT SEALED BID BUYER: KRISTA FERRELL-FILE 42 RFQ. NO.: CABLE12 BID OPENING DATE: 11/16/2011 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): 916,172.55 IS THE END OF REO THIS CABLE12 ***** TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE DATE



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

Request for Quotation

RFQ NUMBER CABLE 12 PAGE 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL 304-558-2596

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

RFQ COPY
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REQUEST FOR QUOTATION: CABLE12 STATEWIDE CONTRACT COMPUTER DATA CABLE (COPPER/FIBER) & FITTINGS

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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.

1.0 PURPOSE

3.43%

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 level of quality.

2.0 DEFINITIONS

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. 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.

FEATURES

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

PHYSICAL SPECIFICATIONS

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

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

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

DESIGN SPECIFICATIONS

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

INSTALLATION NOTES

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

3.3 Category 5E Plenum & Non-plenum Cable

REFERS TO ITEMS 48 & 49 ON PRICING SHEETS

Minimum specifications:

UNSHIELDED TWISTED PAIR CABLE TESTED TO 400 MHz AND ETL VERIFIED TO CATEGORY 5E. CATEGORY 5E CABLE EXCEEDS TIA/EIA 568-B.2 CAT.5e & ISO/IEC 11801 CAT.5E HORIZONTAL CABLE SPECS. THIS CAT.5E CABLE, CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. CAT.5E CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A

TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. OUTER JACKET OF CAT.5E CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.5E NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.5E PLENUM CABLE MUST HAVE "CMP" PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE.

All plenum cable must be 4X4 plenum construction.

• 20 dB Minimum ACR @ 100 MHz - Proven support for Gigabit Ethernet / 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 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.

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INSTALLATION NOTES

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- 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.

3.5 <u>Category 5E Patch Panels</u>

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

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

APPLICATION

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

FEATURES

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

STANDARDS COMPLIANCE

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

PHYSICAL SPECIFICATIONS

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

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

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

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

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

DESIGN SPECIFICATIONS

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

3.6 Category 6 Plenum & Non-plenum Cable

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

DESCRIPTION & MINIMUM SPECIFICATIONS:

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

THE CABLE EXCEEDS TIA/EIA 568-B.2-1 AND ISO/IEC 11804 CATEGORY 6 ELECTRICAL CHARACTERISTICS. THE CABLE CONSISTS OF #23 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A CORE SEPARATOR (SPINAL SPACER) AND A RIPCORD UNDER AN OVERALL JACKET THROUGHOUT THE LENGTH OF THE CABLE. OUTER JACKET OF CAT.6 CABLE MUST BE AVAILABLE IN SELECTION OF 10 COLORS WHICH INCLUDE WHITE, BLUE, PINK, YELLOW, GRAY, GREEN, RED, ORANGE, BLACK, & VIOLET. CAT.6 CABLE MUST BE PACKAGED DIRECTLY IN AN EASY PULL BOX AND DISPENSE IN A TANGLE-FREE PAYOUT (AS IF ON A REEL) IN 1,000 FT. LENGTHS PER BOX. CABLE MUST CONTAIN PRINTED DESCENDING FOOTAGE MARKERS FROM 1,000 TO 0 IN EACH 1,000 FT. BOX. CAT.6 NON-PLENUM CABLE MUST HAVE "CMR" PRINTED ON CABLE, INDICATING IT IS RISER NON-PLENUM CABLE. CAT.6 PLENUM CABLE MUST HAVE "CMP" PRINTED ON CABLE, INDICATING IT IS PLENUM CABLE. All plenum cable must be 4X4 plenum construction.

SUPPORTED APPLICATIONS

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

INDUSTRY APPROVALS

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

HORIZONTAL CABLE

LISTINGS: PL: UL/cUL TYPE CMP NP: UL/cUL TYPE CMR PERFORMANCE: ETL VERIFIED TO TIA/EIA 568-B.2-1 CAT 6

CONSTRUCTION

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

PL: DUAL INSULATION, FEP ON ALL 4 PAIRSNP: 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)

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

REFERS TO ITEMS 81 & 82 ON PRICING SHEETS

ELECTRICAL CHARACTERISTICS

STANDARDS:

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

HORIZONTAL CABLE

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

DCR UNBALANCE: 3% MAX

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

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

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

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

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

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

27 dB MIN (>10-20 MHz)

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

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

 $\exists f$

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

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

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

POWER SUM EQUAL LEVEL FAR END CROSSTALK (PS-ELFEXT): 28 - 20 log 10 (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.

3.8 Category 6 Modular Connectors

REFERS TO ITEM 83 ON PRICING SHEETS

The Category 6 modular connector shall meet or exceed the requirements for channel and component-level performance described in TIA/EIA-568-B.2-1 Category 6 standards. The modular connector shall be individual snap-in style. The connectors shall also be in compliance with all National Electrical Codes; compliant with FCC Part 68; UL listed; and independently verified. In addition to Category 6 compliance, the connector shall have the ability to support high megabit and shared-sheath applications. All plastics used in construction of the connector bodies must be fire-retardant with a UL flammability rating of 94V-0. The Category 6 connector includes unique pair separation towers allowing for quicker and easier terminations. The connector is configured in a 180° configuration such that the punch field is in the back, allowing for rear termination. Termination of all connectors shall be 110-type insulation displacement connectors (IDC). The connector shall provide a ledge directly adjacent to the 110-style termination against which the wires can be directly terminated and cut in one action by the installation 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.

3.9 <u>Category 6 Patch Panels</u>

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

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

APPLICATION

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

FEATURES

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

STANDARDS COMPLIANCE

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

PHYSICAL SPECIFICATIONS

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

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

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

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

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

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.

4.0 ORDERING PROCEDURES

- 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.
- 4.5 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.

5.0 DELIVERY

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.
- 5.3 All materials ordered by the Office of Technology **must** be delivered to the Capitol Complex in the following timeframes after the receipt of the order (the exact delivery location will be provided when the order is placed):
 - a) If total for materials ordered is \$1,000 or below delivery must be within two (2) business hours;
 - b) If total for materials ordered is greater than \$1,000, but less than \$5,000 delivery **must** be within two (2) business days;
 - c) If total for materials ordered is greater than \$5,000 delivery **must** be within five (5) business days.

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:
- Name of the ordering state agency;
- Materials ordered; and
- Total cost expended for that guarter.

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)

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. The cost sheet **must** be completed by each bidder. A vendor should bid on all items listed on the attached cost sheet. Vendor **must** indicate the brand bid for all items.
- 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 on CD and return with bid. An electronic version is available in the WV Purchasing Bulletin to registered vendors by visiting the below link:

http://www.state.wv.us/admin/purchase/newbul.htm

Or, buy emailing Krista.s.ferrell@wv.gov.

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 items **shall** submit descriptive literature and samples.

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

- Manufacturers category 5e cable specifications (Items 45 & 46)
- Manufacturers category 5e RJ45 snap-in connector (Item 47)
- Manufacturers category 5E cable specifications (Items 48 & 49)
- Manufacturers category 5E RJ45 snap-in connector (Item 50)
- Manufacturers category 5E 12-,24-,48-port copper patch panels (Items 72, 73, 74 & 75)
- Manufacturers category 6 cable specifications (Items 81 & 82)
- Manufacturers category 6 RJ45 snap-in connectors (Item 83)
- Manufacturers category 6 12-,24-,48-port copper patch panels (Items 101,102,103,104)
- 8.6.3 These samples **must** 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. Failure to provide descriptive literature and samples may result in the bid being rejected as non-responsive.

9.0 AWARD

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

WV State Cable12 Pricing Contract Alternate Bid

			Alternate Bid			
				_		Selling
ITEM NUM.	Quantity	Unit	Description		Selling	Extension Price
1	50	EA	PLASTIC CABLE TIES; 7 15/16" IN LENGTH, 100PK 3-M PART # 3-M06226 OR EQUAL	\$	1.900	\$95.00
2	200	EA	VELCRO TYRAP WIRE TIES; 8" IN LENGTH; HELLERMAN TYTON PART # GT50X80P2 OR EQUAL	\$	0.550	\$110.00
3	500	EA	CABLE SUPPORT J-HOOK; ERICO PART # CAT32 OR EQUAL	\$	1.850	\$925.00
4	200	EA	ELECTRICAL TAPE; 3-M SCOTCH SUPER 88	\$	3.350	
5	50	EA	PART # 88-SUPER-3/4" X 66FT NO SUBSTITUTE BID 3M 3M MOLDABLE PUTTY STIX PART # 3M-MPS-2+ OR EQUAL	\$	15.000	\$670.00 \$750.00
6	500	EA	WALL CADDIES; ERICO PART # CATCR50 OR EQUAL	\$	0.450	\$225.00
7	500	EA	SINGLE GANG LOW VOLTAGE MOUNTING BRACKETS; ARLINGTON PART # LV-1 OR EQUAL	\$	0.900	\$450.00
8	30	EA	3/4"W X 25YDS LONG BLACK VELCRO IN A ROLL VELCRO PART# 189645 OR EQUAL	\$	23.000	\$690.00
9	10	EA	3M WIRE MARKER DISPENSER 0 THRU 9 ON A ROLL	\$	28.000	\$280.00
10	30	EA	3-M PART # STD-0-9 (FILLED) OR EQUAL 3M WIREMARKER NUMBER REFILL FOR STD-0-9		v	
11	30	EA	NUMBER 0 PART# SDR-0 OR EQUAL 3M WIREMARKER NUMBER REFILL FOR STD-0-9	\$	1.630	\$48.90
			NUMBER 1 PART# SDR-1 OR EQUAL	\$	1.630	\$48.90
12	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 2 PART# SDR-2 OR EQUAL	\$	1.630	\$48.90
13	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 3 PART# SDR-3 OR EQUAL	\$	1.630	\$48.90
14	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 4 PART# SDR-4 OR EQUAL	\$	1.630	\$48.90
15	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 5 PART# SDR-5 OR EQUAL	\$	1.630	\$48.90
16	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 6 PART# SDR-6 OR EQUAL	\$	1.630	\$48.90
17	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9 NUMBER 7 PART# SDR-7 OR EQUAL	\$	1.630	\$48.90
18	30	EA	3M WIREMARKER NUMBER REFILL FOR STD-0-9	\$	1.630	\$48.90
19	30	EA	NUMBER 8 PART# SDR-8 OR EQUAL 3M WIREMARKER NUMBER REFILL FOR STD-0-9			
20	100	EA	NUMBER 9 PART# SDR-9 OR EQUAL ADJUSTABLE CABLE SUPPORT ERICO PART# CAT425 OR	\$	1.630	\$48.90
			PHILLIPS HEAD 3/4" LONG 10-32 RACK SCREWS	\$	8.100	\$810.00
21	20	EA	W/WASHERS 100PK MIDDLE ATLANTIC PRODUCTS PART # HP OR EQUAL	\$	12.000	\$240.00
22	20	EA	VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS GREAT LAKES PART# 1984-VCM OR EQUAL		1127 (1220 J. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			MOUNTING HARDWARE INCLUDED SUB#DATRLA-CC VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS	\$	139.000	\$2,780.00
23	20	EA	CHATSWORTH PART# 12096-703 OR EQUAL MOUNTING HARDWARE INCLUDED	\$	30.050	\$601.00
			VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS			
24	20	EA	AFCO SYSTEMS PART# ASTCTRG84 OR EQUAL			
			(Discontinued) Sub:XDR8401 MOUNTING HARWARE INCLUDED	\$	130.430	\$2,608.60
			VERTICAL WIRE MANAGER FOR 19" OR 23" RELAY RACKS	Ÿ	100.100	V2,000.0
25	20	EA	SOUTHWEST PART# SWE2729BLK OR EQUAL MOUNTING HARDWARE INCLUDED	\$	191.000	\$3,820.00
			DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK			
			MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY			
26	40	EA	20" IN WIDTH; & 84" HEIGHT GREAT LAKES PART# GLRR-1984BA OR EQUAL			
		l	(BID HOFFMAN PART# HOFEDR19FM45U)	s	110.000	\$4,400.00
		—	DISTRIBUTION RACKS; ALUMINUM BASE COLOR OF BLACK	Ť	1101000	V.1, 155.5
27	40	_{= ^}	MUST BE APPROXIMATELY 15" IN DEPTH; APPROXIMATELY			
27	40	EA	20" IN WIDTH; & 84" HEIGHT.	_	001 555	124 may 200 may 1
	ļ	₩	CHATSWORTH PART# 46353-703 OR EQUAL	\$	221.300	\$8,852.00
28	10	EA	48" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL48SR OR EQUAL SUB#XWR-4819-18	\$	178.900	\$1,789.00
29	10	EA	36" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL36SR OR EQUAL SUB#	\$	149.800	\$1,498.00
30	10	EA	24" WALL MOUNT SWING OUT RACK; GREAT LAKES PART # GL24SR OR EQUAL SUB#DATSFR-12-24	\$	132.400	\$1,324.00
			THE STATE OF THE S	7		7.102.100

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
31	10	EA	84" NETWORKING CABINET; CABINET WILL INCLUDE THE FOLLOWING; CASTERS, LEVELERS, GROUND LUG, TWO PAIR SQUARE HOLE RAILS, M6 HARDWARE, BOTTOM GLAND, TOP GLAND, 10IN FAN TOP, PERFORATED FRONT DOOR, PERFORATED REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. PART# XDP84-3-1S0046 OR EQUAL SUB#DATDRK19-44-36PROLRD	\$ 1,987.000	\$19,870.00
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 FRONT DOOR, PERFORATED REAR DOOR, TWO SOLID SIDE PANELS, TWO 9411-1602 POWER STRIPS INTERNAL 8729-PD-3 FRONT, 8429-PR-3-0001 SPOTWELDED REAR TWO 8436-01-SP-3 SIDES. PART# XDP72-3-150012 OR EQUAL	\$ 1,955.000	\$19,550.00
33	10	EA	84" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 84"H X 29" W X 36" D; GREAT LAKES PART # GL840E-2936WVCC OR EQUAL	\$ 1,879.000	\$18,790.00
34	10	EA	72" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 16 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 72"H X 29" W X 36" D; GREAT LAKES PART # 720E-2936WVCC OR EQUAL SUB#DATMRK-4042LRD	\$ 1,567.000	\$15,670.00
35	5	EA	48" NETWORKING CABINET; BASE UNIT WITH LOUVERED TOP; PLEXIGLAS FRONT DOOR W/LOCK; UPPER HALF LOUVERED STEEL REAR DOOR W/LOCK; PAIR OF SOLID REMOVABLE SIDE PANELS; TWO PAIR 19" MOUNTING RAILS W/BRACKETS & MOUNTING SCREWS; COLOR BLACK OR GREY; 6 POSITION POWER STRIP W / CIRCUIT BREAKER & 12' CORD; CASTERS; 48"H X 24" W X 32" D; GREAT LAKES PART # GL480E-2432WVCC OR EQUAL SUB#DATMRK-2431	\$ 997.890	\$4,989.45
36	10	EA	STATIONARY SHELVES FOR 19" MOUNTING IN NETWORKING CABINETS; GREAT LAKES PART # 7206-FM OR EQUAL	\$ 39.400	\$394.00
37	20	EA	FAN ASSEMBLY W/FAN GUARDS & THREE 75 CFM FANS FOR NETWORKING CABINETS; GREAT LAKES PART # TPE-24F OR EQUAL SUB#DATMW-4FT	\$ 30.000	\$600.00
38	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 3/4" WIDTH; 6 FT. LENGTH; DEK is Discontinued Replaced with Wiremold OR EQUAL W-M2800L8-FW	\$ 1.290	\$1,290.00
39	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 1 1/2" WIDTH; 6 FT. LENGTH; DEK is Discontinued Replaced with Wiremold OR EQUAL W-M2900L8-FW	\$ 1.650	\$1,650.00
40	1000	FT	RACEWAY MOLDING; ONE-PIECE; NON-METALLIC; 2 1/2" WIDTH; 6 FT. LENGTH; DEK is Discontinued Replaced with Wiremold OR EQUAL W-M2300BAC	\$ 2.450	\$2,450.00
41	1000	FT	RACEWAY MOLDING; TWO-PIECE; NON-METALLIC; Base.Cover 4" WIDTH X 2" DEPTH; OR EQUAL W- M5400TB/W-M5400C	\$ 5.890	\$5,890.00
42	20,000	FT	25 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/25PC3P OR EQUAL SUB#M56801	\$ 0.770	\$15,400.00
43	20,000	FT	50 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/50PC3P OR EQUAL SUB#M56126	\$ 1.490	\$29,800.00
44	20,000	FT	100 PAIR PLENUM CATEGORY 3 CABLE SUPERIOR ESSEX PART# WCETEL24/100PC3P OR EQUAL SUB# M56128	\$ 2.570	\$51,400.00
45	100,000	FT	CAT. 5e MIN COMPLIANT PVC CABLE; NON-PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57554 OR EQUAL	\$ 0.079	\$7,900.00
46	200,000	FT	CAT. 5e MIN COMPLIANT CABLE; PLENUM; WHITE IN COLOR; 1,000 FT. PER REEL IN A BOX; MOHAWK PART # M57547 OR EQUAL	\$ 0.142	\$28,400.00

			Alternate Bid	į	Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
47	3000	EA	QUICK PORT 8P8C MODULAR RJ45 JACKS FOR CAT5e MIN COMPLIANT; WHITE IN COLOR; LEVITON PART # 5G108-RW5 OR EQUAL SUB#OCCKMJVL8A/B05	\$ 2.050	\$6,150.00
48	200,000	FT	CAT. 5E ENHANCED CABLE; NON-PLENUM RISER RATED; REEL IN A BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56167 OR EQUAL	\$ 0.090	\$18,000.00
49	300,000	FT	CAT. 5E ENHANCED CABLE; PLENUM; REEL IN A BOX ONLY; 1000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. MEGALAN 400 MOHAWK PART# M56168 OR EQUAL	\$ 0.179	\$53,700.00
50	3,000	EA	LEVITON QUICKPORT 8P8C MODULAR RJ45 JACKS FOR CAT5E ENHANCED; ORANGE IN COLOR; LEVITON PART # 5G110-RO5 OR EQUAL SUB# OCCKMJA5E05	\$ 2.300	\$6,900.00
51	200	EA	CAT 5E ENHANCED 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 553-130-001 OR EQUAL	\$ 1.560	\$312.00
52	200	EA	CAT 5E ENHANCED 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-003 OR EQUAL SUB#453-130-003	\$ 0.560	\$112.00
53	200	EA	CAT 5E ENHANCED 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-005 OR EQUAL SUB#453-130-005	\$ 0.680	\$136.00
54	200	EA	CAT 5E ENHANCED 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-007 OR EQUAL SUB#453-130-007	\$ 0.860	\$172.00
55	200	EA	CAT 5E ENHANCED 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-010 OR EQUAL	\$ 1.140	\$228.00
56	200	EA	SUB#453-130-010 CAT 5E ENHANCED 14FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-014 OR EQUAL SUB#453-130-014	\$ 1.370	
57	200	EA	CAT 5E ENHANCED 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART# 553-130-025 OR EQUAL		\$274.00
58	100	EA	SUB#453-130-025 CAT 5E ENHANCED 50FT CROSSOVER CABLE RED IN	\$ 6.280	\$482.00
59	500	EA	COLOR QUIKTRON PART# 553-130-050 OR EQUAL 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	0.350	\$628.00 \$175.00
60	500	EA	CAT 5E ENHANCED 350MHZ PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART#551-110-18IN OR EQUAL	\$ 1.930	\$965.00
61	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 3 FOOT LENGTH; LEVITON PART# 5G460-03* (* - COLOR) OR EQUAL	\$ 1.750	\$3,500.00
62	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 5 FOOT LENGTH; LEVITON PART# 5G460-05* (* - COLOR) OR EQUAL	\$ 1.950	\$1,950.00
63	2000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 7 FOOT LENGTH; LEVITON PART# 5G460-07* (* - COLOR) OR EQUAL	\$ 2.250	\$4,500.00
64	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 10 FOOT LENGTH; LEVITON PART# 5G460-10* (* - COLOR) OR EQUAL	\$ 2.670	\$2,670.00
65	1000	EA	CAT. 5E GIGAMAX PATCH CABLES; RJ45M TO RJ45M BOOTED; NON-KEYED; 15 FOOT LENGTH; LEVITON PART# 5G460-15* (* - COLOR) OR EQUAL	\$ 3.200	\$3,200.00
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	\$ 2.950	
67	100	EA	(XXX=COLOR) Sub#570-xxx-025 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		\$1,475.00
			(XXX=COLOR) Sub#570-xxx-050	\$ 4.100	\$410.00

			Alternate Bid			Selling
ITEM NUM.	Quantity	Unit	Description		Selling	Extension Price
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) Sub#570-xxx-100	\$	8.560	\$856.00
69	50	EA	LEVITON QUICKPORT HIGH DENSITY 48-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H48 OR EQUAL	\$	43.000	\$2,150.00
70	50	EA	LEVITON QUICKPORT HIGH DENSITY 24-PORT PATCH PANEL W/CABLE MANAGEMENT BAR LEVITON PART# 49255-H24 OR EQUAL	\$	31.250	\$1,562.50
71	50	EA	LEVITON QUICKPORT HIGH DENSITY 12-PORT PATCH PANEL LEVITON PART# 49255-Q89 OR EQUAL	\$	8.900	\$445.00
72	100	EA	LEVITON 48-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART# 5G596-U48 OR EQUAL SUB#OCCDCC4888/110A5E	\$	130.000	\$13,000.00
73	100	EA	LEVITON 24-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U24 OR EQUAL SUB#OCCDCC2488/110A5E	\$	65.000	\$6,500.00
74	50	EA	LEVITON 12-PORT 8P8C RJ45 CAT.5E RACKMOUNT PATCH PANEL; MUST BE CAT5E ENHANCED CERTIFIED; LEVITON PART # 5G596-U12 OR EQUAL SUB#OCCDCC1288/110A5E	s	46.900	\$2,345.00
75	50	EA	LEVITON PART # 5G596-U89 OR EQUAL SUB#OCCPP12A5E	\$	43.600	\$2,180.00
76	100	EA	SIEMON 48-PORT PATCH PANEL; MUST BE CAT.5E CERTIFIED; SIEMON #HD5-89D-12 NO SUBSTITUTE BID SIEMON	\$	63.900	\$6,390.00
77	200	EA	SIEMON RACK MT. 1U WIRE MANAGER PART# S110-RWM-01 OR EQUAL SUB#DATPHCM-1-2	\$	16.900	\$3,380.00
78	20	EA	SIEMON WIRE MANAGER; STANDARD INTERBAY CORD MANAGER;SIEMON WM-144-5 OR EQUAL SUB#DATHCM-2D	\$	23.450	\$469.00
79	20	EA	3-POSITION HINGED FIXED BRACKETS FOR WALL; DATATEL PART # HPM-2 OR EQUAL	\$	25.550	\$511.00
80	100	EA	WIRE MANAGER; STANDARD INTERBAY CORD MANAGER; DATATEL PART # HCM-1D OR EQUAL	\$	17.900	\$1,790.00
81	200,000	FT	CAT 6 ENHANCED CABLE; NON-PLENUM; REEL IN A BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57202 OR EQUAL	\$	0.140	\$28,000.00
82	300,000	FT	CAT 6 ENHANCED CABLE; PLENUM; REEL IN A BOX ONLY; 1,000 FT. PER BOX; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET; ELECTRICAL CHARACTERISTICS / SPECIFICATIONS SHEET MUST BE SUPPLIED. CAT 6 ADVANCENET MOHAWK PART# M57193 OR EQUAL	\$	0.285	\$85,500.00
83	5000	EA	QUICKPORT CAT6 EXTREME 8P8C RJ45 SNAP-IN CONNECTOR; BLUE IN COLOR BUT SELECTION OF COLORS MUST BE AVAILABLE LEVITON PART # 61110-RL6 OR EQUAL SUB# OCCKMJA605	\$	3.500	\$17,500.00
84	100	EA	CAT 6 EXTREME 1FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-001P OR EQUAL	\$	5.110	\$511.00
85	200	EA	CAT 6 EXTREME 3FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-003P OR EQUAL	\$	5.490	\$1,098.00
86	100	EA	CAT 6 EXTREME 5FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-005P OR EQUAL	\$	5.870	\$587.00
87	200	EA	CAT 6 EXTREME 7FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-007P OR EQUAL	\$	6.240	\$1,248.00
88	200	EA	CAT 6 EXTREME 10FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-010P OR EQUAL	\$	6.810	\$1,362.00
89	200	EA	CAT 6 EXTREME 15FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-015P OR EQUAL	\$	7.750	\$1,550.00
90	100	EA	CAT 6 EXTREME 25FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-025P OR EQUAL	\$	9.630	\$963.00
91	50	EA	CAT 6 EXTREME 50FT CROSSOVER CABLE RED IN COLOR QUIKTRON PART # 538-130-050P OR EQUAL	\$	14.350	\$717.50

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
92	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 18 INCHES IN LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-18IN OR EQUAL (XXX=COLOR)	\$ 2.700	\$540.0
93	200	EA	CAT. 6 EXTREME 650MHZ PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 1 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-1 OR EQUAL (XXX=COLOR)	\$ 0.900	\$180.0
94	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 3 FOOT LENGTH; LEVITON (*-COLOR) PART # 62460-03* OR EQUAL SUB#Q-T576-120-003	\$ 1.950	\$780.0
95	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 5 FOOT LENGTH; LEVITON (*-COLOR) PART # 62460-05* OR EQUAL SUB#Q-T576-120-005	\$ 2.150	\$860.0
96	400	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 7 FOOT LENGTH; LEVITON (*COLOR)	\$ 2.650	\$1,060.0
97	200	EA	PART # 62460-07* OR EQUAL SUB#Q-T576-120-007 CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 10 FOOT LENGTH; LEVITON (*COLOR)		
98	100	EA	PART # 62460-10* OR EQUAL SUB#Q-T576-120-010 CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 15 FOOT LENGTH; LEVITON (*COLOR)	\$ 3.250	\$650.0
99	50	EA	PART # 62460-15* OR EQUAL SUB#Q-T576-120-014 CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON-KEYED; 20 FOOT LENGTH; LEVITON (*COLOR) PART # 62460-20* OR EQUAL SUB#Q-T576-120-025	\$ 3.790 \$ 5.900	\$379.0 \$295.0
100	50	EA	CAT. 6 EXTREME PATCH CABLES; RJ45M TO RJ45M; NON- KEYED; 50 FOOT LENGTH; SELECTION OF COLORS SHALL BE AVAILABLE FOR OUTER JACKET QUIKTRON PART# 576-XXX-050 OR EQUAL (XXX=COLOR)	\$ 6.900	\$345.0
101	50	EA	LEVITON 48-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U48 OR EQUAL SUB#OCCDCC4888/110SIX	\$ 182.000	\$9,100.0
102	50	EA	LEVITON 24-PORT 8P8C RJ45 PATCH PANEL; MUST BE CAT. 6 ENHANCED CERTIFIED; LEVITON PART # 69586-U24 OR EQUAL SUB#OCCDCC2488/110SIX	\$ 92.000	\$4,600.
103	50	EA	LEVITON 12-PORT PATCH PANEL; MUST BE CAT 6 ENHANCED CERTIFIED; LEVITON PART# 69586-U12 OR EQUAL SUB#OCCDCC1288/110SIX	\$ 51.000	\$2,550.
104	50	EA	LEVTION 12-PORT 8P8C RJ45 CAT 6 WALL MT. PATCH PANEL; MUST BE CAT 6 ENHANCED CERTIFIED; LEVITON PART# 69586-U89 OR EQUAL SUB#OCCPP12SIX	\$ 56.000	\$2,800.
105	1000	EA	2-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-2*P (*-COLOR) OR EQUAL	\$ 1.300	\$1,300.
106	100	EA	4-PORT SURFACE MOUNT BOX; LEVITON PART # 41089-4*P (*-COLOR) OR EQUAL	\$ 2.350	\$235.
107	100	EA	SINGLE GANG IVORY BLANK WALL PLATE; LEVITON PART# 86014 OR EQUAL	\$ 0.250	\$25.
108	100	EA	SINGLE GANG WHITE BLANK WALL PLATE; LEVITION PART# 88014 OR EQUAL	\$ 0.250	\$25.
109	100	EA	QUICKPORT STAINLESS STEEL FLUSH WALLPHONE WALLPLATE; LEVITON PART# 4108W-0SP OR EQUAL	\$ 6.000	\$600.
110	500	EA	1-PORT WALLPLATES; SUB#OCCFPSK0101 LEVITON PART # 41080-1*P (*-COLOR) OR EQUAL	\$ 0.950	\$475.
111	1000	EA	2-PORT WALLPLATES; SUB#OCCFPSK0201 LEVITON PART # 41080-2*P (*-COLOR) OR EQUAL	\$ 0.950	\$950.
112	100	EA	3-PORT WALLPLATES; SUB#OCCFPSK0301 LEVITON PART # 41080-3*P (*-COLOR) OR EQUAL	\$ 0.950	\$95.
113	100	EA	4-PORT WALLPLATES; SUB#OCCFPSK0401 LEVITON PART # 41080-4*P (*-COLOR) OR EQUAL	\$ 0.950	\$95.
114	50	EA	6-PORT WALLPLATES; SUB#OCCFPSK0601 LEVITON PART # 41080-6*P (*-COLOR) OR EQUAL	\$ 0.950	\$47.
115	5000	FT	FIBER OPTIC CABLE 48-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX048-105D-WLS/900-OFNR OR CORNING PART # 048KWF-T4130D20 OR EQUAL SUB#M9B814	\$ 1.020	\$5,100.
116	5000	FT	FIBER OPTIC CABLE 24-STRAND I/O MULTIMODE 62.5/125 OCC PART # DX024-085D-WLS/900-OFNR OR CORNING PART # 024K8F-31130-24 OR EQUAL	\$ 1.350	\$6,750.
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 SUB#M9B042T	\$ 0.780	\$3,900.

			Alternate Bid	l	Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
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 SUB#M9B039T	\$ 0.440	\$2,200.00
119	5000	FT	FIBER OPTIC CABLE 48-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX048-095K-WLS/900-OFNP OR		
120	5000	FT	CORNING PART # 048KWP-T4130D20 OR EQUAL FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED MULTIMODE 62.5/125 OCC PART # DX24-075K-WLS/900/OFNP OR CORNING	\$ 1.000	\$5,000.00
121	5000	FT	PART # 024K8P-31130-29 OR EQUAL SUB#M9B611T FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED MULTIMODE 62.5/125	\$ 1.680	\$8,400.0
121	3000		OCC PART # DX12-060K-WLS/900-OFNP OR CORNING PART # 012K8P-31130-29 OR EQUAL SUB#M9B048T FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED	\$ 0.790	\$3,950.00
122	5000	FT	MULTIMODE 62.5/125 OCC PART # DX06-045K-WLS/900-OFNP OR CORNING PART # 006K8P-31130-29 OR EQUAL SUB#M9B045T	\$ 0.450	\$2,250.0
123	5000	FT	FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX48-105D-WLS/900-OFCR-IAD OR	\$ 1.010	0 5 050 000
124	5000	FT	FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX24-085D-WLS/900-OFCR-IAD OR		
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	\$ 2.210	
126	5000	FT	PART # 012K8F-31130-A1 OR EQUAL SUB#M9B231T FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED MULTIMODE 62.5/125 OCC PART # DX06-055D-WLS/900-OFCR-IAD OR	\$ 1.500	\$7,500.0
127	5000	FT	CORNING PART # 006K8F-31130-A1 OR EQUAL FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX48-095K-WLS/900-OFCP-IAK OR CORNING	\$ 1.160	\$5,800.0
128	5000	FT	PART # 048KWP-T4130DA1 OR EQUAL SUB#FOH56547 FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125	\$ 2.100	\$10,500.0
400	5000		OCC PART # DX24-070K-WLS/900-OFCP-IAK OR CORNING PART # 024K8P-31130-A3 OR EQUAL SUB#M9B242T FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED MULTIMODE 62.5/125	\$ 3.220	\$16,100.0
129	5000	FT	OCC PART # DX12-060K-WLS/900-OFCP-IAK OR CORNING PART # 012K8P-31130-A3 OR EQUAL SUB#M9B241T FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR	\$ 1.850	\$9,250.0
130	5000	FT	ARMORED PLENUM COATED MULTIMODE 62.5/125 OCC PART # DX06-050K-WLS/900-OFCP-IAK OR CORNING PART # 006K8P-31130-A3 OR EQUAL SUB#M9B240T	\$ 1.400	\$7,000.0
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	\$ 1.000	\$3,000.0
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		
133	3000	FT	CORNING PART # 012KWA-T4130D20 OR EQUAL FIBER OPTIC CABLE 6-STRAND OUTDOOR AERIAL W / 1/4" MESSENGER MULTIMODE 62.5/125 OCC PART # MX06-090A-WLS/900-JGS OR	\$ 0.750	\$2,250.0
134	3000	FT	CORNING PART # 006KWA-T4130D20 OR EQUAL FIBER OPTIC CABLE 48-STRAND INDOOR/OUTDOOR MULTIMODE 50/125	\$ 0.750	\$2,250.0
40.5			OCC PART # DX048-105D-ALS/900-OFNR OR CORNING PART # 048CWF-T4131D20 OR EQUAL SUB#M9A814 FIBER OPTIC CABLE 24-STRAND INDOOR/OUTDOOR MULTIMODE 50/125	\$ 1.850	\$5,550.0
135	3000	FT	OCC PART # DX024-085D-ALS/900-OFNR OR CORNING PART # 024C8F-31131-24 OR EQUAL	\$ 1.150	\$3,450.0

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
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	\$ 0.68	\$2,040.0
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 SUB#M9A039T	\$ 0.38	200
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 SUB#M9A207	\$ 1.01	0 \$3,030.0
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	\$ 1.72	20 \$5,160.0
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 SUB#M9Z048T	\$ 0.70	00 \$2,100.0
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 SUB#M9Z045T	\$ 0.55	
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	\$ 1.00	
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	\$ 1.98	
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 SUB#M9A231T	\$ 1.49	
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	\$ 1.14	
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 SUB#F0H52500	\$ 1.00	
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 SUB#M9A242T	\$ 2.90	
148	3000	FT	FIBER OPTIC CABLE 12-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX12-060K-ALS/900-OFCP-IAK OR CORNING PART # 012C8P-31131-A3 OR EQUAL SUB#M9A241T	\$ 1.70	
149	3000	FT	FIBER OPTIC CABLE 6-STRAND INDOOR/OUTDOOR ARMORED PLENUM COATED 50UM MULTIMODE OCC PART # DX06-050K-ALS/900-OFCP-IAK OR CORNING PART # 006C8P-31131-A3 OR EQUAL SUB#M9A240T	\$ 1.16	60 \$3,480.6
150	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL/DUCT MULTIMODE 50/125 OCC PART # DX012-075A-ALS/900 OR CORNING PART # 012CW4-T4131D20 OR EQUAL SUB#M9A511T	\$ 0.63	30 \$1,890.0
151	3000	FT	FIBER OPTIC CABLE 12-STRAND OUTDOOR AERIAL W/MESSENGER MULTIMODE 50/125 OCC PART # M12-090A-ALS/900-JGS OR CORNING PART # 012CWA-T4131D20 OR EQUAL	\$ 0.75	
152	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O SINGLEMODE 9/125 OCC PART # DX24-085D-SLX/900-OFNR-WB OR CORNING PART # 024E8F-31131-24 OR EQUAL SUB#M9W601T	\$ 0.83	
153	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O SINGLEMODE 9/125 OCC PART # DX12-065D-SLX/900-OFNR-WB OR CORNING PART # 012E8F-31131-24 OR EQUAL	\$ 0.50	
154	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O SINGLEMODE 9/125 OCC PART # DX06-055D-SLX/900-OFNR-WB OR CORNING PART # 006E8F-31131-24 OR EQUAL	\$ 0.31	

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
155	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX24-070K-SLX/900-OFNP-WB OR CORNING PART # 024E8P-31131-29 OR EQUAL SUB#M9W611T	\$ 1.040	\$3,120.00
156	3000	FT	FIBER OPTIC CABLE 12-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX12-060K-SLX/900-OFNP-WB OR CORNING PART # 012E8P-31131-29 OR EQUAL SUB#M9W048T	\$ 0.540	\$1,620.00
157	3000	FT	FIBER OPTIC CABLE 6-STRAND I/O PLENUM RATED SINGLEMODE 9/125 OCC PART # DX06-045K-SLX/900-OFNP-WB OR CORNING PART # 006E8P-31131-29 OR EQUAL SUB#M9W045T	\$ 0.290	\$870.0
158	3000	FT	FIBER OPTIC CABLE 24-STRAND I/O ARMORED SINGLEMODE 9/125 OCC PART # DX24-085D-SLX/900-OFCR-IAD OR CORNING PART # 024E8F-31131-A1 OR EQUAL	\$ 1.650	\$4,950.0
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	\$ 1.300	\$3,900.0
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	\$ 1.020	\$3,060.0
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 SUB#M9W242T	\$ 2.230	\$6,690.0
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 SUB#M9W241T	\$ 1.550	\$4,650.0
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 SUB#M9W240T	\$ 1.200	\$3,600.0
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 SUB#FOH55265	\$ 2.040	\$4,080.0
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 SUB#FOH57482	\$ 1.800	\$3,600.0
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 SUB# FOH57422	\$ 1.750	\$3,500.0
167	2000	EA	SIECOR SC MM 62.5UM CONNECTORS, PART # 95-000-40 OR EQUAL SUB#CS00761-12	\$ 8.500	\$17,000.0
168	1000	EA	SIECOR ST MM 62.5UM CONNECTORS, PART # 95-000-50 OR EQUAL SUB#CS008480-12	\$ 8.850	\$8,850.0
169	500	EA	SIECOR SC MM 50UM CONNECTORS, PART# 95-050-41 OR EQUAL SUB#CS007611-12	\$ 8.500	\$4,250.0
170	500	EA	SIECOR ST MM 50UM CONNECTORS, PART# 95-050-51 OR EQUAL SUB#CS008481-12	\$ 8.850	\$4,425.0
171	500	EA	SIECOR SC SM CONNECTORS, PART# 95-200-41 OR EQUAL SUB# CS007609-12	\$ 10.750	\$5,375.0
172	500	EA	SIECOR ST SM CONNECTORS, PART# 95-200-51 OR EQUAL SUB# CS008479-12	\$ 10.950	\$5,475.0
173	20	EA	MULTILINK 1U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-1RU-2X-SO OR EQUAL	\$ 58.000	\$1,160.0
174	20	EA	MULTILINK 2U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-2RU-4X-SO OR EQUAL	\$ 80.000	\$1,600.0
175	20	EA	MULTILINK 3U RACKMOUNT FIBER ENCLOSURE MULTILINK PART# FRM-3RU-9X-TS OR EQUAL	\$ 135.000	\$2,700.0

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
176	20	EA	MULTILINK 6-PORT ST MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-06-P-BLK OR EQUAL	\$ 12.000	\$240.00
177	20	EA	MULTILINK 6-PORT SC MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MSC-06-MM-P-BLK OR EQUAL	\$ 12.000	\$240.00
178	20	EA	MULTILINK 8-PORT ST MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES MULTILINK PART# MST-08-P-BLK OR EQUAL	\$ 13.500	\$270.00
179	20	EA	MULTILINK 8-PORT SC MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES		
180	20	EA	MULTILINK PART# MSC-08-MM-P-BLK OR EQUAL MULTILINK 12-PORT ST MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES	\$ 16.000	\$320.00
181	20	EA	MULTILINK PART# MST-12-P-BLK OR EQUAL MULTILINK 12-PORT SC MM/SM MOUDULE; FITS RACKMOUNT ENCLOSURES	\$ 18.000	\$360.00
182	20	EA	MULTILINK PART# MSC-12-MM-P-BLK OR EQUAL MULTILINK BLANK MOUDULE; FITS RACKMOUNT ENCLOSURES	\$ 25.000	\$500.00
183	20	EA	MULTILINK PART#MFMB-600BB-BLK OR EQUAL LEVITON 1U RACKMOUNT FIBER ENCLOSURE LEVITON PART # 5R1UA-A03 OR EQUAL	\$ 2.250 \$ 79.000	\$45.00 \$1,580.00
184	20	EA	LEVITON 2U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R2UA-A06 OR EQUAL	\$ 106.000	\$2,120.00
185	20	EA	LEVITON 3U RACKMOUNT FIBER ENCLOSURE LEVITON PART# 5R3UA-A12 OR EQUAL LEVITON SMALL EMPTY FIBER WALL MOUNT ENCLOSURE	\$ 141.000	\$2,820.00
186	20	EA	ONLY 8"HIGH X 13"WIDE X 3.5"DEEP LEVITON PART# 5W110-00N OR EQUAL LEVITON MEDIUM EMPTY FIBER WALL MOUNT ENCLOSURE	\$ 60.000	\$1,200.00
187	20	EA	ONLY 14"HIGH X 12"WIDE X 5.25" DEEP LEVITON PART# 5W310-00N OR EQUAL	\$ 80.000	\$1,600.0
188	20	EA	LEVITON LARGE EMPTY FIBER WALL MOUNT ENCLOSURE ONLY 17" HIGH X 15" WIDE X 5.25" DEEP LEVITON PART# 5W710-00N OR EQUAL	\$ 152.000	\$3,040.0
189	50	EA	LEVITON ST FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY LEVTION PART# 5F100-1ST OR EQUAL	\$ 18.000	\$900.0
190	50	EA	LEVITON SC FIBER 6-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES ONLY LEVTION PART# 5F100-3SC OR EQUAL	\$ 23.000	\$1,150.0
191	50	EA	LEVITON BLANK 6-PACK FOR FIBER ENCLOSURES LEVITON PART# 5F100-BPP OR EQUAL	\$ 2.800	\$140.0
192	50	EA	LEVITON SC FIBER 8-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-8SC OR EQUAL	\$ 22.000	\$1,100.0
193	50	EA	LEVITON SC FIBER 12-PACK TO FIT EITHER WALL MOUNT OR RACKMOUNT ENCLOSURES LEVITON PART# 5F100-CSC OR EQUAL	\$ 38.300	\$1,915.0
194	50	EA	SIECOR ST CONNECTOR PANEL, PART # WIC-CP1-25 OR EQUAL SUB# MST-06-P-BLK	\$ 12.000	\$600.0
195	50	EA	SIECOR SC CONNECTOR PANEL, PART# WIC-CP1-56 OR EQUAL SUB# MSC-06-MM-P-BLK	\$ 12.000	\$600.0
196	30	EA	SIECOR WALL MOUNT FIBER ENCLOSURE, PART # WIC-012 OR EQUAL SUB#MLKWM-2X	\$ 39.000	\$1,170.0
197	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER ST TO ST DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$ 3.900	\$390.0
198	100	EA	1 METER ST TO SC DUPLEX FIBER OPTIC JUMPERS, 62.5/125 DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$ 4.300	\$430.0
199	100	EA EA	1 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$ 4.050	\$405.0
200	100	EA	1 METER LC TO ST DUPLEX FIBER OPTIC JUMPERS, 62.5/125	\$ 4.200	\$420.0
202	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO LC	\$ 4.240 \$ 4.500	
203	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER SC TO MTRJ	\$ 1.000	
204	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 1 METER LC TO MTRJ	\$ 1.000	

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
205	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO ST	\$ 4.230	\$423.00
206	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER ST TO SC	\$ 3.650	\$365.00
207	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER SC TO SC	\$ 4.240	\$424.00
208	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO ST	\$ 4.000	\$400.00
209	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO SC	\$ 4.020	\$402.00
210	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO LC	\$ 4.410	\$441.00
211	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER SC TO MTRJ	\$ 1.100	\$110.00
212	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 2 METER LC TO MTRJ	\$ 1.050	\$105.00
213	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO ST	\$ 5.200	\$520.00
214	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER ST TO SC	\$ 4.600	\$460.00
215	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER SC TO SC	\$ 4.600	\$460.00
216	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO ST	\$ 5.050	\$505.00
217	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO SC	\$ 5.050	\$505.00
218	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO LC	\$ 5.600	\$560.00
219	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER SC TO MTRJ	\$ 1.020	\$102.00
220	100	EA	DUPLEX FIBER OPTIC JUMPERS, 62.5/125 3 METER LC TO MTRJ	\$ 1.030	\$103.00
221	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER ST TO ST	\$ 4.350	\$435.00
222	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER ST TO SC	\$ 4.100	\$410.00
223	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO SC	\$ 4.100	\$410.00
224	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO ST	\$ 4.450	\$445.00
225	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO SC	\$ 4.750	\$475.00
226	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO LC	\$ 4.750	\$475.00
227	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER SC TO MTRJ	\$ 1.000	\$100.00
228	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 1 METER LC TO MTRJ	\$ 1.000	\$100.00
229	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER ST TO ST	\$ 4.190	\$419.00
230	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER ST TO SC	\$ 3.660	\$366.00
231	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER SC TO SC	\$ 4.210	\$421.00
232	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO ST	\$ 4.290	\$429.00
233	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO SC	\$ 4.320	\$432.00
234	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO LC	\$ 4.440	\$444.00
235	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER SC TO MTRJ	\$ 1.040	\$104.00
236	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 2 METER LC TO MTRJ	\$ 1.080	\$108.00
237	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER ST TO ST	\$ 5.550	\$555.00
238	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER ST TO SC	\$ 5.300	\$530.00
239	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER SC TO SC	\$ 5.100	\$510.00
240	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO ST	\$ 5.300	\$530.00

					Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
241	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO SC	\$ 5.700	\$570.0
242	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO LC	\$ 6.200	\$620.0
243	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER SC TO MTRJ	\$ 1.000	\$100.0
244	100	EA	DUPLEX FIBER OPTIC JUMPERS, 50/125 3 METER LC TO MTRJ	\$ 1.000	\$100.0
245	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO ST	\$ 4.670	\$467.0
246	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER ST TO SC	\$ 4.700	\$470.0
247	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO SC	\$ 4.700	\$470.0
248	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO ST	\$ 5.150	\$515.0
249	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO SC	\$ 5.350	\$535.0
250	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO LC	\$ 5.560	\$556.0
251	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER SC TO MTRJ	\$ 1.000	\$100.0
252	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 1 METER LC TO MTRJ	\$ 1.000	\$100.0
253	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO ST	\$ 4.370	\$437.0
254	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER ST TO SC	\$ 4.140	\$414.0
255	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO SC	\$ 4.200	\$420.0
256	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO ST	\$ 4.430	\$443.0
257	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO SC	\$ 4.440	\$444.0
258	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO LC	\$ 4.770	\$477.0
259	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER SC TO MTRJ	\$ 1.000	\$100.0
260	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 2 METER LC TO MTRJ	\$ 1.000	\$100.0
261	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO ST	\$ 5.500	\$550.0
262	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER ST TO SC	\$ 5.230	\$523.0
263	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 5.860	\$586.0
264	100	EA	3 METER SC TO SC DUPLEX FIBER OPTIC JUMPERS, 9/125 3 METER LC TO ST	\$ 5.800	\$580.0
265	100	EA	DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 6.100	\$610.0
266	100	EA	3 METER LC TO SC DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 5.980	\$598.0
267	100	EA	3 METER LC TO LC DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 1.000	\$100.0
268	100	EA	3 METER SC TO MTRJ DUPLEX FIBER OPTIC JUMPERS, 9/125	\$ 1.000	\$100.0
269	20	EA	3 METER LC TO MTRJ ALLIED TELESYN ST TO RJ45 FEMALE FIBER MEDIA		
070	00		CONVERTER 10/100MEG PART# AT-FS201 OR EQUAL ALLIED TELESYN CENTRE COM MC13 UTP/FIBER ST	\$ 184.000	\$3,680.0
270	20	EA	10MBPS MEDIA CONVERTER PART# ATMC13-10 OR EQUAL	\$ 109.000	\$2,180.0
271	20	EA	TRANSITION NETWORKS ETHERNET 10BASE-T TO 10BASE-FL STAND-ALONE MEDIA CONVERTER; TRANSITION NETWORKS PART# E-TBT-FRL-05 OR EQUAL	\$ 118.000	\$2,360.0
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	\$ 230.000	\$4,600.0

TOTAL COST OF ITEMS

11/15/2011

			Alternate Bid		Selling
ITEM NUM.	Quantity	Unit	Description	Selling	Extension Price
			Cost for INSIDE DELIVERY (Explain) Delivery Cost includes travel time too and from inside delivery 1-hour Mim.		125.00Hour
			TOTAL EVALUATED BID PRICE		

THERE WILL NOT BE A SPLIT AWARD FOR THIS CONTRACT.





FuseConnect Connectors (SC, FC, LC, ST)



FuseConnect Packaging



FuseConnect LC Connecters – Duplex Clip Installed



FuseConnect in Fusion Splicer

FuseConnect™ Fusion Spliced Field-Terminated Connectors

AFL's FuseConnect fusion-spliced, field-terminated connectors are uniquely designed and feature just four components. With a factory pre-polished ferrule, its innovative field-termination process eliminates polishing, adhesives, and crimping in the field minimizing the potential for operator error and expensive connector scrap.

FuseConnect utilizes a fusion splicer to terminate the connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance of >65 dB return loss in an SC/APC configuration and SC single-mode is compliant to GR-326-CORE. Designed to work with an industry standard 10 mm cleave length and splicers utilizing a fiber holder system, FuseConnect is compatible with Fujikura fusion splicers and most other fiber holder-based fusion splicing platforms.

FuseConnect 900 µm connectors do not require the optional FuseConnect Installation Kit. They only require the 900 µm FuseConnect fiber holder for installation.

Features

- Field installable
- · Only four components
- No adhesives, crimping or polishing
- True APC performance
- MM compliant to TIA/EIA568C.3
- · Compatible with most fusion splicers

Applications

- Connectorization in:
 - RF-overlay FTTP networks
 - Cable TV backbone networks
 - Outside plant
 - FTTDesk
 - MDU FTTP Cabling
- Central office connector replacement
- Data center installation

Specifications

PARAMETER	VALUE
Connector Type	SC, LC, FC, ST
Cable Type	900 μm, 2 mm, 3 mm
Polish	APC, UPC, PC
Insertion Loss	SM: 0.15 dB (average), 0.3 dB (maximum) / MM: 0.10 dB (average), 0.3 dB (maximum)
Return loss	SM = > 65 dB (APC), > 55 dB (UPC) / MM = > 30 dB (PC)
Operating Temperature	-40°C to +75°C

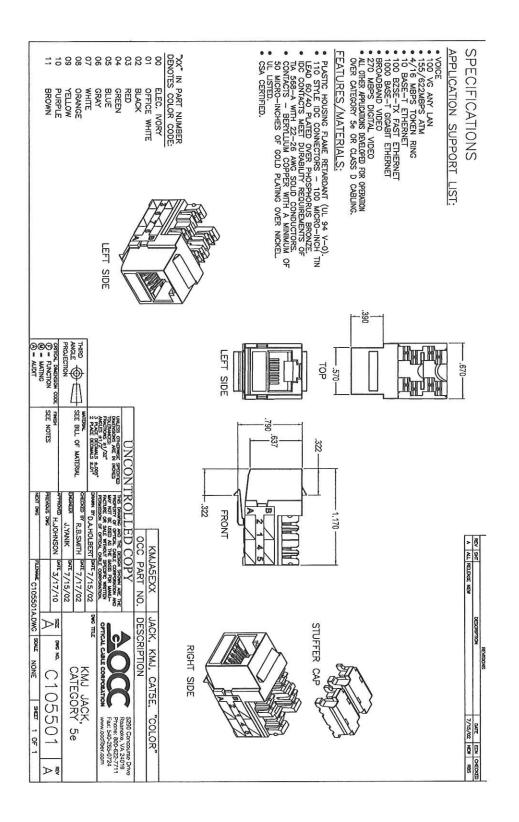
Ordering Information

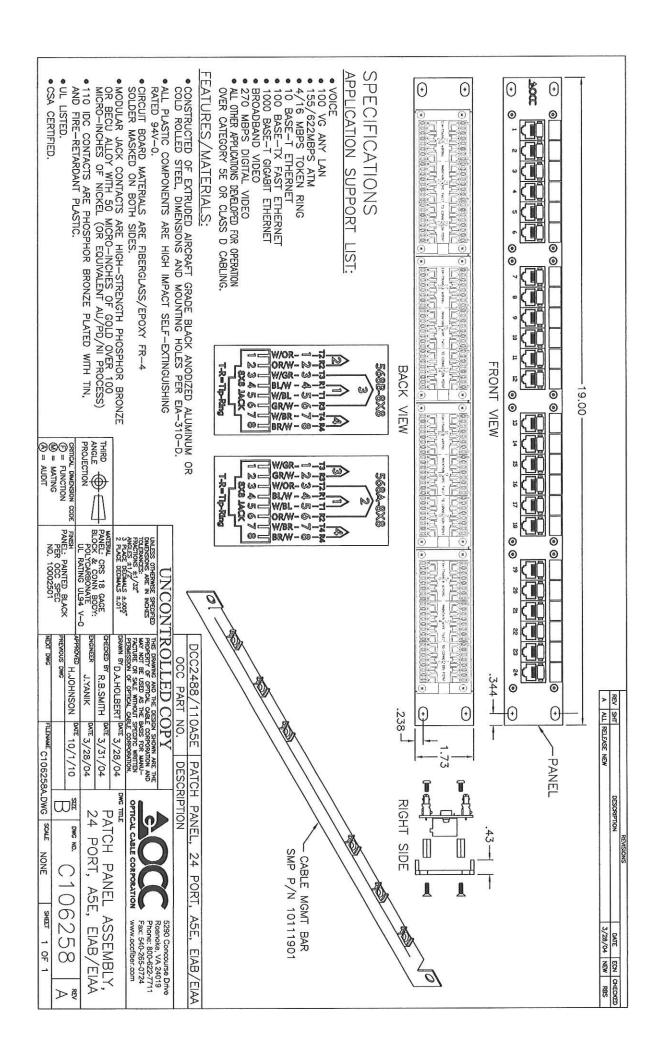
		AFL NO.*						
CONN. TYPE	BOOT TYPE	UPC SM (Blue)	APC SM (Green)	PC 62.5 µm MM (Beige)	PC 50.0 µm MM (Black)	PC 50.0 µm 10GIG MM (Aqua)		
SC	900 µm**	CS010247	CS010245	CS010249	CS010251	CS010253		
	2 mm	CS004519	CS004516	CS007794	CS007800	CS007806		
	3 mm	CS004518	CS004515	CS007793	CS007799	CS007805		
LC	900 µm	CS008237	CS010241	CS008243	CS008241	CS008239		
	2 mm	CS008248	CS010242	CS008254	CS008252	CS008250		
FC	900 µm	CS010259	_	CS010261	CS010341	CS010343		
ST	900 µm	CS011251		CS011252	CS011253	CS011254		

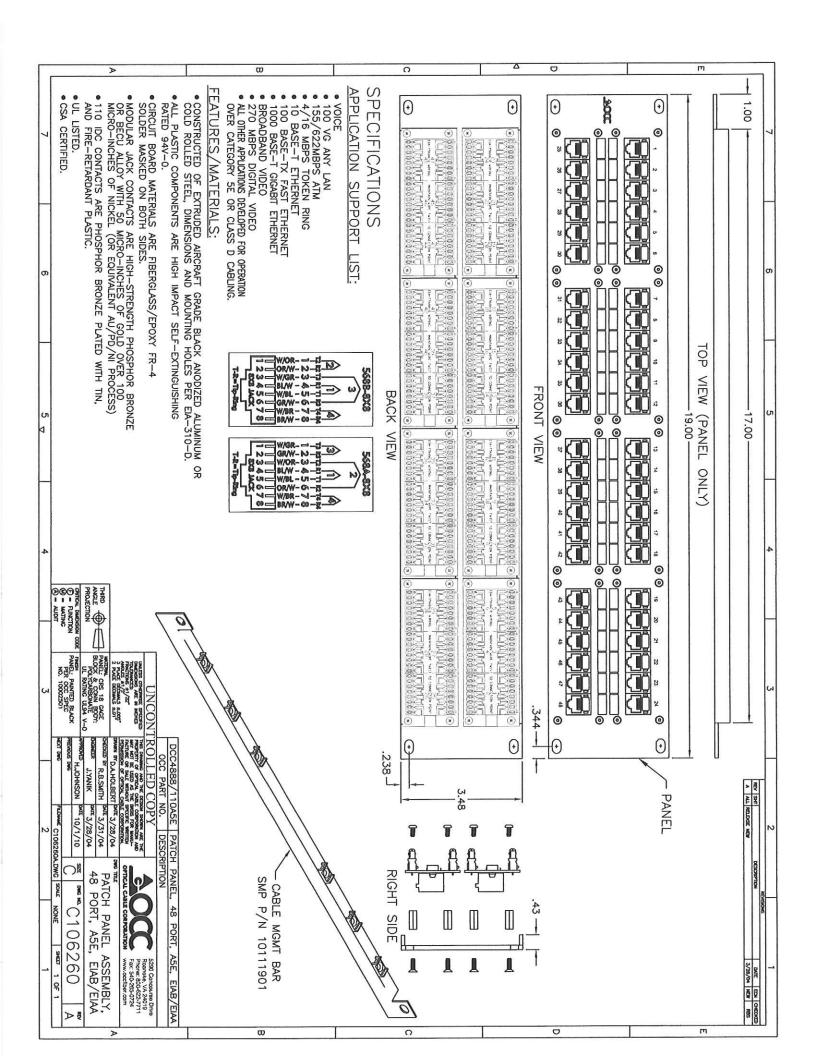
DESCRIPTION	AFL NO.
LC Duplex Clip (package of 6 clips)	CS010437-06

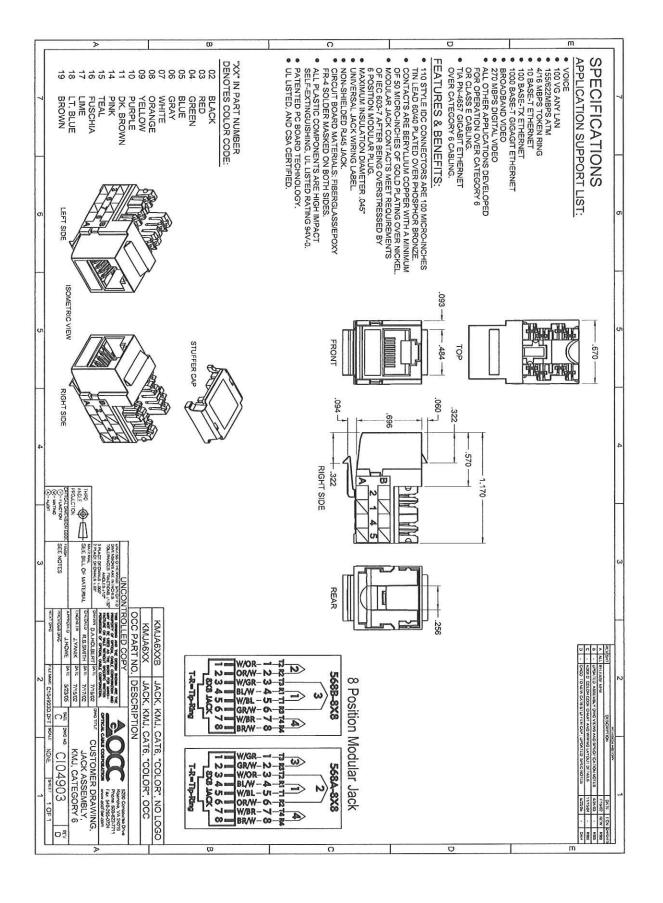
^{*} AFL NO. is for a single unit

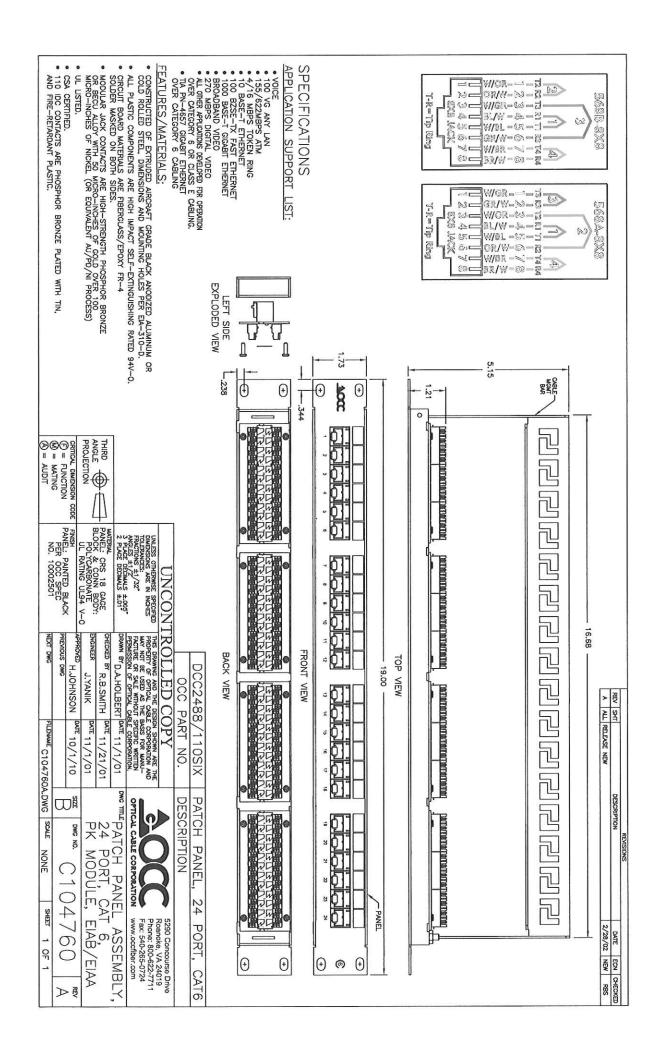
^{**} FuseConnect SC 900 µm second generation

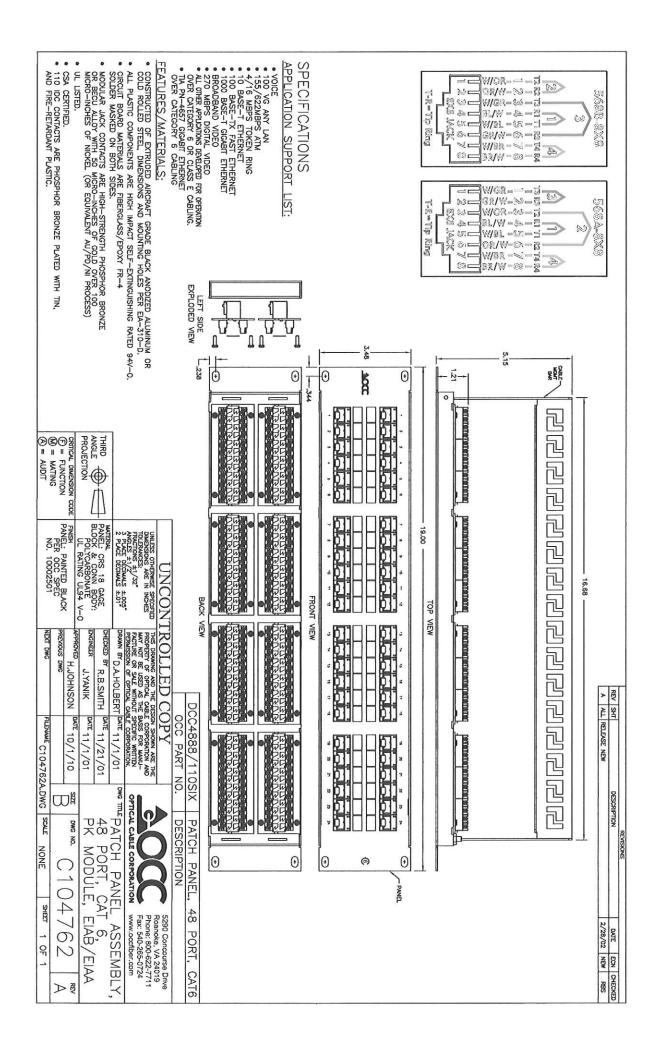












State of West Virginia

VENDOR PREFERENCE CERTIFICATE

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

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

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

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

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

Bidder: SESCO	Signed:
Date: -	Title: 1-ATACOM Sales MANAGER.
*Charle and acadeliantian of	

CABLE 12

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

EXCERTION: 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.

Authorized Signature: State of WV County of KANAWHA, to-wit: Taken, subscribed, and sworn to before me this 15 day of Novem 13 to 2011. My Commission expires Tune 7, 2020. AFFIX SEAL HERE NOTARY PUBLIC Ame Way Anger.



WITNESS THE FOLLOWING SIGNATURE