



**Response to State of West Virginia
Department of Administration
Office of Technology
Request for Quotation for ISCH0263**

Pomeroy IT Solutions

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Federal Tax ID: 31-1227808

Delivery Information

Deliver one (1) signed original and one (1) electronic copy of the proposal on CD.

Ship to:

*Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130*

Outside of the envelope or package(s) must be clearly marked:

<i>Buyer:</i>	<i>Krista Ferrell-File 21</i>
<i>Req#:</i>	<i>ISCH0263</i>
<i>Opening Date:</i>	<i>07/10/2008</i>
<i>Opening Time:</i>	<i>1:30pm</i>

RECEIVED

2008 JUL 10 A 9:56

**PURCHASING DIVISION
STATE OF WV**



July 9, 2008

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

Dear Ms. Ferrell:

Pomeroy IT Solutions is pleased to submit this response to the State of West Virginia Department of Administration Office of Technology for Request for Quotation for ISCH0263.

Pomeroy is an information technology solutions provider with comprehensive portfolio of consulting, infrastructure, and lifecycle services. Our mission is to provide customers with increased efficiencies, decreased costs, and the ability to maximize their existing IT investments. We are committed to our customers, our employees, and our shareholders and aim to consistently meet and exceed their expectations.

- **Consulting Services** - Pomeroy's consultants combine the best strategy, people, and technologies to help clients achieve their goals and solve their business problems.
- **Infrastructure Services** - Pomeroy provides solutions for storage, servers, security, and LANs you need. We have the technology and expertise in place to help build and maintain your infrastructure.
- **Lifecycle Services** - Pomeroy provides the entire technology lifecycle from product procurement and development to deployment, ongoing user support and asset tracking. We currently provide help desk services to over sixty different clients. We also provide end of life services included disposal through EPA approved firms.

Pomeroy focuses on providing services and products to public agencies and corporations by providing one-stop, total IT solutions provider for small, medium and large customers. Our combined staff has considerable experience working with state and local governments as well as IT staffs in private corporations. Our collaborative approach facilitates an interactive and communicative partnership with our clients.

Please feel free to contact us immediately if you have any questions or need any additional information.

Sincerely,

A handwritten signature in black ink that reads "Mike Ferrari". The signature is written in a cursive, flowing style.

Mike Ferrari
Pomeroy IT Solutions
Government and Education Account Executive
800.227.8798 x114



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Pomeroy Overview

Pomeroy IT Solutions (Pomeroy) is excited to furnish the following proposal to the State of West Virginia.

For purposes of this Executive Overview, our emphasis is to highlight key differentiators that we believe separate us from all other potential cabling providers.

- **Stability** – a reliable partner
- **Scalability** – when your business needs changes
- **Culture** – the bases for success
- **Capabilities** – lifecycle services is our core competency
- **Qualified Technical Staff** – employee satisfaction leads to high performance
- **National Coverage** – we can grow with our customers

Stability – a reliable partner

Pomeroy's strong balance sheet provides independence, security and investment options. In light of the sometimes tumultuous technology industry, this speaks to our operating disciplines and to our commitment to be a reliable partner to our clients. We honor our clients' trust by conducting our business in a manner that assures that their trust is well-placed.

- Access to \$100M credit facility
- No interest-bearing debt

Scalability – When your business needs changes

Pomeroy offers a full range of IT professional services along with comprehensive product sourcing from all of the top-tier manufacturers.

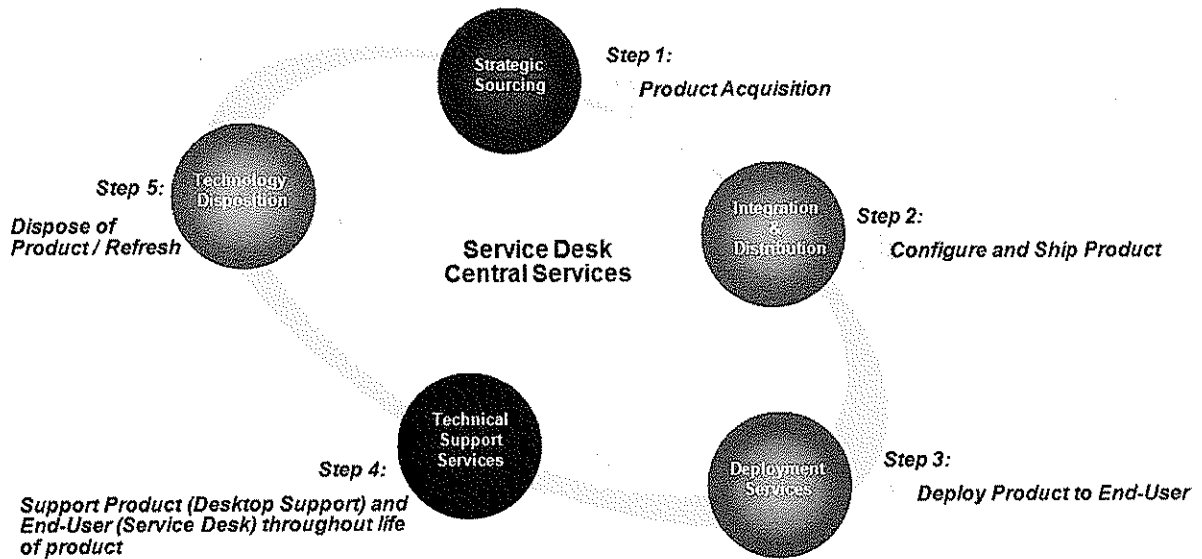
Culture – The basis for success

Ultimately, the success of any partnership comes down to the fundamental essence of the organization with which you do business. At Pomeroy, we believe that failure is not an option, we pride ourselves on being easy to do business with, we have a passion for service, and our word is our commitment. While we believe that our processes, capabilities, and value are second to none, we believe that the State of West Virginia will not find a better partner for the future. Should we be fortunate enough to earn your business, we will work every day to remind the State that partnering with Pomeroy was a good decision.



Capabilities – Lifecycle Services is our Core competency

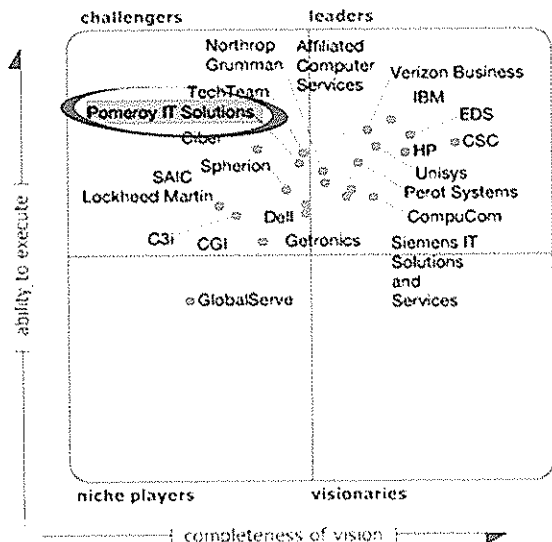
Providing technical support/break-fix and help desk services is a core competency for Pomeroy IT Solutions and our basic business strategy is developed around these services.



Pomeroy's Lifecycle Services provides support for each step in the management of our client's technology assets throughout their lifecycle. Pomeroy's unique, Gartner recognized, multi-vendor and efficient Technology acquisition and Service delivery processes allows us to deliver these services to our customer's through a staffing or outsourced model.

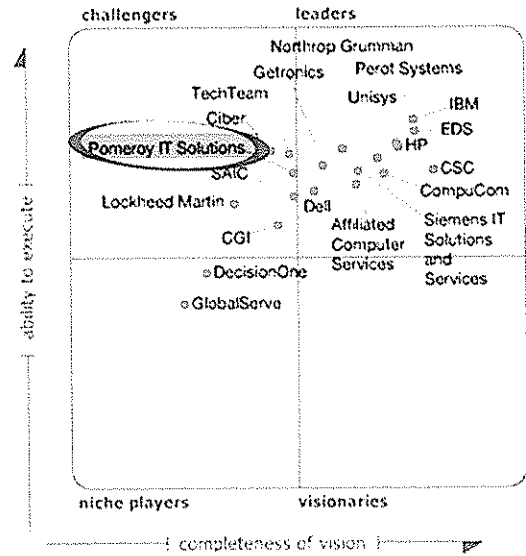
Pomeroy continues to be listed in the Gartner Group Magic Quadrant for Help Desk and Desktop Outsourcing.

Gartner Help Desk Outsourcing MQ 2007



As of March 2007

Gartner Desktop Outsourcing MQ 2007



As of March 2007

*** Magic Quadrant Disclaimer**

The Magic Quadrant is copyrighted March 2007 by Gartner, Inc. and is reused with permission. The Magic Quadrant is a graphical representation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendors measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor, product or service depicted in the Magic Quadrant, and does not advise technology users to select only those vendors placed in the "Leaders" quadrant. The Magic Quadrant is intended solely as a research tool, and is not meant to be a specific guide to action. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

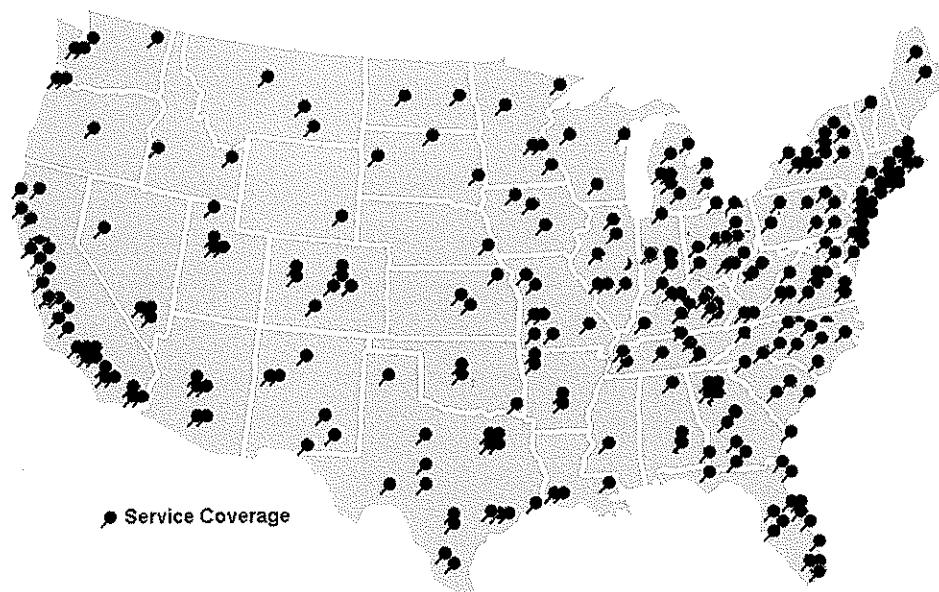
Qualified Technical Staff – Employee satisfaction leads to high performance

Pomeroy has invested heavily in our service infrastructure and technical resources. Pomeroy has demonstrated the ability to develop and position technicians where core talents are maximized. Because technicians gain experience working with multiple platforms, they are capable of assuming cross platform leadership roles quickly. In many cases, the customer's internal staff is overwhelmed or does not have the experience needed to bring projects and support arrangements to closure. Pomeroy will assist customers from the planning and procedure documentation stage to actual implementation. Our technicians are proficient project managers because of their experience with multiple platforms and numerous customer projects. The Pomeroy Technical Team will draw from years of experience to manage to and deliver upon the service levels as requested within this proposal.



National Coverage – We can grow with our customers

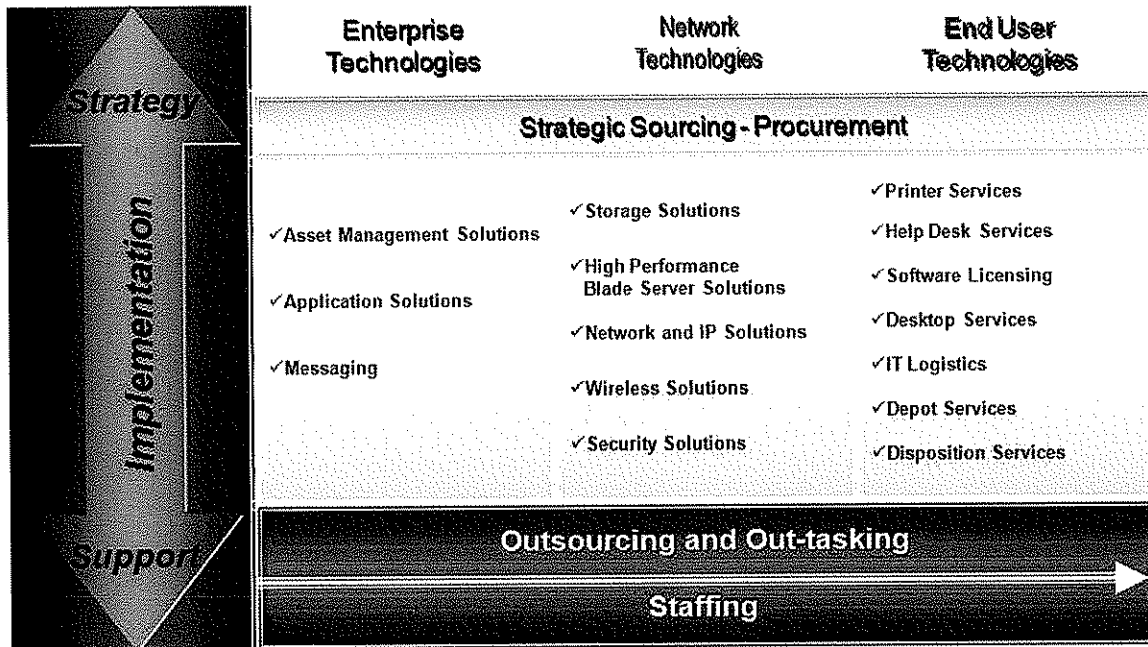
Pomeroy provides services in all 50 states through our national presence. However, we also believe that it is important to serve clients through our local team accountable for client success and satisfaction. Additionally, we are supporting our global clients through the growth of our international services.



Pomeroy Overview – Manage IT operations on behalf of clients

- National Full Service IT Infrastructure Solutions Provider: (Help Desk, Desktop Support, Technology Acquisition, Staffing, Professional Services)
- We typically save our clients a minimum of 15%-20% in IT Support costs and a minimum of 2% in Technology Acquisition costs.
- Strong Balance sheet. 27 Year History of Successive Growth and Profitability
- Based in Northern, KY (Cincinnati)
- Over 2,800 Technical Employees
- Global Help Desk, North America Field Support
- Gartner Recognized – Magic Quadrant (Helpdesk & Desktop Support)
- Partnerships with the World's Leading OEM and Software Providers
- Process Driven
 - World-Class Distribution and Configuration Center Facilities
 - ISO 9001:2000 certified
 - ITIL, Six Sigma, & PMI Certified as well as Numerous OEM Certifications
- Focused on enterprise, end user technologies and inter-networking solutions
 - Help clients better manage IT operations for themselves

Pomeroy focuses on providing services and products to public agencies and corporations by providing one-stop, total IT solutions provider for small, medium and large customers. Our combined staff has considerable experience working with state and local governments as well as IT staffs in private corporations. Our collaborative approach facilitates an interactive and communicative partnership with our clients.



RFQ Sections

1.0 Objective

Pomeroy has read and understands Section 1.0 – 1.20 of the Request for Quotation.

2.0 Qualifications

2.1 Project Manager

Pomeroy IT Solutions, Inc. will provide a Project Manager who will act as a single point of contact for all activities regarding this project. The Pomeroy Project Manager will be able to make decisions regarding all aspects of this RFQ. Pomeroy will provide a Project Manager to be on-site any time work is being performed and workers are on-site. The Pomeroy Project Manager will be totally responsible for all aspects of the work and shall have the authority to make immediate decisions regarding implementation or changes to the work.



2.2 Construction Manager

Pomeroy IT Solutions, Inc. understands that the WVOT will provide a Construction Manager who shall act as a single point of contact for all activities regarding this project.

2.3 Experience

Pomeroy IT Solutions, Inc. has over 25 years experience in the Telecommunications Industry.

2.3.1 Experience with Specified Telecommunications Distribution System

Pomeroy IT Solutions, Inc. is fully capable and experienced in the telecommunications distribution system specified. Pomeroy has provided telecommunications designs and installations for the WV Dept. of Education for the last 12 years having installed over 9 million feet of CAT5E and CAT6 Copper and nearly 1.5 million feet of fiber optic cable.

2.3.2 Registered Communications Distribution Designer (RCDD)

Pomeroy IT Solutions, Inc. Has a Registered Communications Distribution Designer on staff that oversees all design and installations. Pomeroy company policy dictates that we employ experienced and motivated RCDD's to maintain current standards in training our staff as well as overseeing design and installation. The Pomeroy RCDD is always available before during and after the installation. See Attached Certifications.

2.3.3 Unqualified RCDD

Pomeroy IT Solutions, Inc. understands that the WVOT reserves the right to require a change in RCDD if the WVOT feels like the current RCDD is not experienced enough for this project.

2.3.4 BICSI Registered Installers and Technicians

Pomeroy IT Solutions, Inc. Employs BICSI Certified as well as Manufacturer Certified Installers and Technicians. Most of Pomeroy Installers and Technicians have been with the company for 10+ years and Pomeroy will maintain an experienced staff on site for the duration of the installation. See Attached Certifications.

2.4 References

As a courtesy to our customers, Pomeroy does not publish customer telephone numbers. To arrange a call with the following references, contact your account executive Mike Ferrari at 800.227.8798 x114 to arrange a call with any of the following references.

- Monongalia County, WV, University High School
Nancy Napolillo
13 South High Street
Morgantown, WV 26501
- Raleigh County Schools, Woodrow Wilson High and Shady Springs High
Mary Ann Foster
Raleigh County, WV

- DANA Corporation
Julie Begonia
777 Bible Road
Lima, Ohio 45801

2.5 Liability and Insurance

Refer to the attached documents:

- *Pomeroy Insurance Verification (Certificate of Liability)*
- *Bid Bond*

2.5.8 Wage Rates

Pomeroy IT Solutions, Inc. will pay prevailing wages in accordance with the West Virginia Division of Labor's Building and Construction Wage Rates.

2.6 Special Conditions

Pomeroy IT Solution, Inc. understands that this Facility provides services to the State of WV and all those having business in the State. Pomeroy understands that activities in all buildings are critical to the provisioning of services and shall not be interrupted by work activities. Pomeroy has read and understands this requirement.

Pomeroy IT Solutions, Inc. understands that the computer and telecommunications systems associated with this work must not be taken off-line or removed from service during normal work hours without Pomeroy first making specific arrangements to coordinate any such activities.

Pomeroy understands that work will have to be performed around all of the conditions listed above, as well as working with the WVOT staff to minimize disruptions to normal customer activities.

2.7 Cancellation

Pomeroy IT Solutions, Inc. has read and understands the cancellation provisions of this RFQ.

3.0 Installation Guidelines

Pomeroy IT Solutions, Inc. understands that this RFQ includes all equipment, materials, labor and services to provide a complete telecommunications distribution system including testing and documentation in accordance with this RFQ.

- 3.1 Pomeroy IT Solutions, Inc. understands that all Work performed on this project will be installed in accordance with the most current NFPA, ANSI, NECA, BICSI, TIA, EIA, Local Standards and codes.



- 3.2** Pomeroy will provide materials and installation that will meet or exceed all applicable national, state and the most current NFPA, ANSI, NECA, BICSI, TIA, EIA, Local Standards and codes of Installation.
- 3.3** Pomeroy IT Solutions, Inc. understands that all Work performed on this project will be installed in accordance with the most current NFPA, ANSI, NECA, BICSI, TIA, EIA, Local Standards and codes which includes the BICSI Telecommunications Distribution Methods Manual.
- 3.4** Pomeroy IT Solutions, Inc. understands that all Work performed on this project will be installed in accordance with the most current NFPA, ANSI, NECA, BICSI, TIA, EIA, Federal, State and Local Standards and codes. Any items that may be contrary or in violation of any of these standards or codes will promptly be brought to the attention of the designated State of WV representative both verbally and in writing.

4.0 Infrastructure Cable System Description

Pomeroy IT Solutions is proposing a Mohawk/Leviton (NetSync) structured cabling solution for Copper and Fiber Optic cable that is already an approved cabling solution by other State of WV Departments and Divisions.

5.0 Grounding

Pomeroy IT Solutions will conform to the NEC 2005 – Article 392.7 grounding and ANSI/TIA/EIA 607(A) – Commercial Building Grounding and Bonding Standards and ANSI/NECA/BICSI – 568B.

Pomeroy IT Solutions will perform the Installation of the TMGB (Telecommunications Main Grounding Bus-bar), and the TGB (Telecommunications Grounding Bus-bar) in accordance with this RFQ.

Pomeroy IT Solutions will bond all Raceway, Racks, Equipment, Housings, and Messenger Cables, to the TGB as stated by the WVOT.

All Grounding and Bonding will be performed utilizing #6AWG Green Insulated Copper Grounding Wire, with proper connectors.

6.0 Labeling

Pomeroy IT Solutions will conform to ANSI/TIA/EIA 606(a). And provide the Following.

Machine Printed labels with 1" high black lettering on white background.

Labels will be Placed on the Cables at a minimum of every 20'.

7.0 As-Built Drawings

Pomeroy has read and understands this requirement and will provide 3 Auto CAD, as-built drawings to the State of West Virginia.



8.0 Firestopping Materials

Pomeroy IT Solutions, Inc. uses 3M Firestop Systems with 4 hour ratings. All firestop will be installed in accordance with manufacturer specifications and in accordance with this RFQ.

9.0 Firestopping

9.1 General

9.2.1-9.3.2 Pomeroy IT Solutions, Inc. will ensure that any or all floor, wall, ceiling penetrations whether fire-rated or other whether existing or new, that is designated for Telecommunications equipment or materials will be "Fire-Stopped" with an approved 3M 4-hour rated material in accordance with this RFQ.

9.2.1-9.3.2 Pomeroy IT Solutions, Inc. will provide an approved 3M 4-hour Firestopping system for all penetrations through walls, floors, ceilings, existing sleeves, new sleeves, existing cable tray or new cable tray. Fire stop will be installed whether the barrier being stopped is a fire-rated barrier or not. Anything designated for existing or new Telecommunications that is or not already Fire Stopped or breached during the installation of this RFQ. All Fire Stop will be installed in accordance with manufacturers guidelines and specifications and this RFQ.

9.4 If Required by Inspecting Authorities:

9.4.1-9.4.2 Pomeroy IT Solutions, Inc. understands that some Fire Stop materials may be required to be removed and replaced for inspection purposes.

10.0 Sleeves

10.1-10.6

Pomeroy IT Solutions, Inc. will install only proper and approved sleeving in approved places and will ensure that all sleeves are installed according to approved practices, codes and standards and in accordance with this RFQ. Pomeroy will perform all patching where needed in accordance with this RFQ.

11.0 Penetrations of Building Surfaces

11.1-11.2 Pomeroy IT Solutions, Inc. will provide proper Fire Stopping in Fire Resistant areas as stated in section 9.0 of this RFQ.

12.0 Firestop References

Pomeroy IT Solutions, Inc. has read and will adhere to these requirements.



13.0 Removal and Replacement of Existing Ceilings

13.1-13.3

Pomeroy IT Solutions will remove the existing ceiling tiles in the areas of the cable tray installation and store them in an area designated by the State of West Virginia.

If ceiling tiles are damaged or disfigured during this process Pomeroy IT solutions will replace the tiles, as stated within section 13.3 of this RFQ.

14.0 Cutting and Patching

14.1-14.6

Pomeroy IT Solutions will be responsible for any openings, penetrations, cuttings and coring within the building where there is need to create pathways through walls etc. Pomeroy will take extra care not to damage existing walls or infrastructure, but in the case there is damage done to the structure Pomeroy IT Solutions will repair this damage as stated in section 14.0 – 14.6 of this RFQ.

15.0 Cleaning

15.1-15.2

Pomeroy IT Solutions, Inc. will ensure that all spaces are left in an acceptable condition.

16.0 Painting

16.1-16.2

Pomeroy IT Solutions, Inc. will touch up marred and bared surfaces in accordance with 16.1 and Restore patched surfaces in accordance with 16.2.

17.0 Hours Approval

Pomeroy IT Solutions, Inc. has read and understands this requirement.

18.0 Staging Space and Staged Materials

Pomeroy IT Solutions, Inc. has read and understands this requirement.

19.0 Termination Hardware

Pomeroy IT Solutions, Inc. is providing an equal solution that is approved state wide. All copper and fiber strands will be terminated and tested to manufacturer's specifications. All cable will be plenum rated as required by this RFQ.



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
ISCH0263

PAGE
1

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

RFQ COPY

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE

CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/25/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		205-43		\$523,030.10
CABLING PROJECT						
REQUEST FOR QUOTATION						
THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA OFFICE OF TECHNOLOGY, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH A COMPLETE TELECOMMUNICATIONS DISTRIBUTION SYSTEM FOR THE KANAWHA COUNTY DIVISION OF HEALTH AND HUMAN RESOURCES LOCATED AT 4190 WASHINGTON STREET WEST IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.						
TECHNCIAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV.						
DEADLINE FOR ALL TECHNICAL QUESTIONS IS 07/03/2008 AT THE CLOSE OF BUSINESS.						
ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE. QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A VENDOR MAY SUBMIT A BID TO THE STATE OF WV ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.						
EXHIBIT 5						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferreri</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govnmt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

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



State of West Virginia
Department of Administration
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06/25/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 45 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. THE AGENCY WILL ISSUE A WRITTEN NOTICE TO PROCEED TO THE VENDOR.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR KANAWHA COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000. SEE SPECIFICATIONS FOR</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferrell</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govmnt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDITIONAL INSURANCE REQUIREMENTS.						
() BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.						
(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A PERFORMANCE AND LABOR & MATERIAL BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPCTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.						
() MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.						
REV. 11/00						
EXHIBIT 7						
DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS						
IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferrell</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govnmnt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER

ISCH0263

PAGE

4

ADDRESS CORRESPONDENCE TO ATTENTION OF

KRISTA FERRELL
304-558-2596

RFQ COPY

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE

CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/25/2008				

BID OPENING DATE:

07/10/2008

BID OPENING TIME

01:30PM

LINE	QUANTITY	UQP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferreri</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govnmnt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER
ISCH0263

PAGE
5

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

RFQ COPY

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE
CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/25/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA						
THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:						
(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.						
(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.						
(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.						
REV. 11/96						
EXHIBIT 10						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferrell</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govnmt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
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Request for Quotation

RFO NUMBER
ISCH0263

PAGE
6

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Pomeroy IT Solutions, Inc.
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CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/25/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NOS.:						
NO. 1		✓				
NO. 2		✓				
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.						
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.						
..... <i>Mike Ferrell</i>					SIGNATURE	
Pomeroy IT Solutions, Inc.					COMPANY	
July 9, 2008					DATE	
REV. 11/96						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferrell</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govnmt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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

Request for Quotation

RFQ NUMBER
ISCH0263

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7

ADDRESS CORRESPONDENCE TO ATTENTION OF
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RFQ COPY

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE

CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/25/2008				
BID OPENING DATE: 07/10/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTRACTORS LICENSE						
WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.						
WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.						
BIDDER TO COMPLETE:						
CONTRACTORS NAME: Pomeroy IT Solutions, Inc.						
CONTRACTORS LICENSE NO.: 052341						
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT						
APPLICABLE LAW						
THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULE AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.						
ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Mik Ferran</i>	800.227.8798 x114	July 9, 2008
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Govnmt/Ed Account Executive	31-1227808	

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



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

Request for Quotation

RFQ NUMBER
ISCH0263

PAGE
8

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

RFQ COPY

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE
CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/25/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.						
REV. 1/2005						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER: KRISTA FERRELL-FILE 21						
REQ. NO.: ISCH0263						
BID OPENING DATE: 07/10/2008						
BID OPENING TIME: 1:30 PM						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferrell</i>	TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govmnt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER
ISCH0263

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9

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

RFQ COPY

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Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE

CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/25/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
304.746.4439						

PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:						
Mike Ferrari						

***** THIS IS THE END OF RFQ ISCH0263 ***** TOTAL:						\$594,254.21

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>M. Ferrari</i>	800.227.8798 x114	July 9, 2008
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Govmnt/Ed Account Executive	31-1227808	

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

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

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

DEFINITIONS:

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

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

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

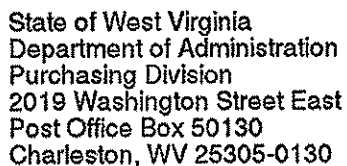
LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Pomeroy IT Solutions, Inc.

Authorized Signature:  Date: July 9, 2008



AFQ NUMBER
ISCH0263

PAGE
1

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

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
IS&C - TRC MANAGER
1 DAVIS SQUARE

CHARLESTON, WV
25301 304-558-5472

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
07/02/2008				
BID OPENING DATE:	07/10/2008		BID OPENING TIME	01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO REPLACE THE SPECIFICATIONS (PAGES 10-25) WITH THE ATTACHED PAGES.		
				BID OPENING DATE REMAINS: 07/10/2008		
				BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 1 *****		
0001	1	LS		205-43		
				CABLING PROJECT		
				***** THIS IS THE END OF RFQ ISCH0263 ***** TOTAL:		\$523,030.10

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mike Ferrara</i>		TELEPHONE 800.227.8798 x114	DATE July 9, 2008
TITLE Govnmnt/Ed Account Executive	FEIN 31-1227808	ADDRESS CHANGES TO BE NOTED ABOVE	

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

**State of West Virginia
Department of Administration
Office of Technology
Charleston, WV**

Request for Quotation for ISCH0263

1.0 OBJECTIVE

The State of West Virginia, Department of Administration, Office of Technology (WVOT) intends to acquire a complete telecommunications distribution system for ***Kanawha County DHHR Office, 4190 Washington Street West, Charleston WV 25313***

The project will be completed in approximately ten phases per attachment A. This is an estimated timeline; **all included dates are subject to change.**

This Request for Quotation covers all Phases: **Installation, testing, and acceptance of the telecommunications distribution system infrastructure cable.** Prices quoted shall be all-inclusive and represent complete installation. The Vendor shall be responsible for all parts, labor and all other associated apparatus necessary to completely install, test, and turnover for acceptance to the WVOT

1.1 Inquiries:

Additional information inquiries regarding specifications of this RFQ must be submitted in writing to the State Buyer with the exception of questions regarding bid submission which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Krista Ferrell, Senior Buyer
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130
Fax: (304) 558-4115

Absolutely NO contact shall be made by the Vendor with any member of the evaluation committee. Violation may result in rejection of the bid. The State Buyer named above is the sole contact for any and all inquiries after this RFQ has been released.

1.2 Vendor Registration:

Vendors participating in this process must complete and file a ***Vendor Registration and Disclosure Statement*** (Form WV-1) and remit the registration fee. Vendor is not required to be a registered Vendor in order to submit a bid, but the **successful bidder MUST** register and pay the fee prior to the award of an actual purchase order/contract.

1.3 Oral Statements and Commitments:

Vendor should clearly understand that any verbal representations made or assumed to be made during any oral discussions held between Vendor's representatives and any State personnel is

not binding. Only the information issued in writing and added to the Request for Quotation specifications file by an official written addendum are binding.

1.4 Response Submission:

State law requires that the original bid be submitted to the Purchasing Division. All bids must be submitted to the Purchasing Division **prior** to the date and time stipulated in the RFQ as the opening date. All bids will be date and time stamped to verify official time and date of receipt.

Vendors mailing bids must allow sufficient time for mail delivery to ensure timely arrival. In accordance with State Code 5A-3-11, the Purchasing Division cannot waive or excuse late receipt of a proposal that is delayed and late for any reason. Any bid received after the bid opening date and time will be immediately disqualified in accordance with State law and the administrative rules and regulations.

WVOT requests that bidders also include a copy of their bid in electronic form on a CD.

Submit:

One original RFQ to:

Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

The outside of the envelope or package(s) must be clearly marked:

Buyer: Krista Ferrell-File 21
Req#: ISCH0263
Opening Date: 07/10/2008

1.5 Schedule of Events

The schedule may change depending on the results of the responses and a final schedule will be established prior to contracting with the successful Vendor.

1.6 Incurring Costs:

The State and any of its employees or officers shall not be held liable for any expenses incurred by any bidder responding to this RFQ for expenses to prepare, deliver the proposal, or to attend any mandatory prebid meeting or oral presentations.

1.7 Installation Completion Timeframe:

The installation completion time for this RFQ is 45 standard business days after issuance of P.O. These 45 days for installation include the measuring of job and the ordering of materials. The State at its discretion will adjust timelines, if required, due to unforeseen delays.

1.8 Job Site Parking

There is vendor parking (first come first serve) on the parking lot behind the Building. Equipment may be unloaded at the rear door of the building but vehicles will not be allowed to remain there.

1.9 Omissions

Omission in the proposal of any provision herein described shall not be construed as to relieve The Vendor of any responsibility or obligation requisite to the complete and satisfactory delivery, operation, and support of any and all equipment or services.

1.10 Warranty

Materials and workmanship hereinafter specified and furnished shall be fully guaranteed by The Vendor for **fifteen years** from transfer of title against any defects. Defects which may occur as the result of faulty materials or workmanship within **fifteen years** after installation and acceptance by The WVOT shall be corrected by The Vendor at no additional cost to The WVOT. The Vendor's warranties shall commence with acceptance of or payment for the work in full.

This warranty shall in no manner cover equipment that has been damaged or rendered unserviceable due to negligence, misuse, acts of vandalism, or tampering by The WVOT or anyone other than employees or agents of The Vendor. The Vendor's obligation under its warranty is limited to the cost of repair of the warranted item or replacement thereof, at The Vendor's option. Insurance covering said equipment from damage or loss is to be borne by The Vendor until full acceptance of equipment and services.

1.11 Inspection, Acceptance, and Title

Inspection and Acceptance will be at destination and upon successful installation unless otherwise provided. Title to or risk of loss or damage to all items shall be the responsibility of the successful Vendor until acceptance by The WVOT, unless loss or damage results from negligence by The WVOT. If the materials or services supplied to The WVOT are found to be defective or do not conform to the specifications, The WVOT reserves the right to cancel the contract upon written notice to The Vendor and return products at The Vendor's expense, based upon the terms of the Contract.

The WVOT shall at all times have access to the work wherever it is in preparation or progress, and The Vendor shall provide proper facilities for such access and for inspection. The Vendor shall not close up any work until The WVOT has inspected the work. Should The Vendor close up the work prior to inspection by The WVOT, The Vendor shall uncover the work for inspection by The WVOT at no cost to The WVOT, and then recover the work according to the specification contained herein.

The Vendor shall notify The WVOT in writing when the work is ready for inspection. The WVOT will inspect the work as expeditiously as possible after receipt of notification from The Vendor.

1.12 Price Quotations

Price quotations are to include the furnishing of all materials, equipment, maintenance and training manuals, tools, and the provision of all labor and services necessary or proper for the completion of the work, except as may be otherwise expressly provided in the Contract Documents. The WVOT will not be liable for any costs beyond those proposed herein and awarded. **Time and materials quotes will be unacceptable.**

In case of discrepancy in computed proposal prices, unit price shall prevail.

1.13 Price Stability

Contract prices and discounts shall be fixed at the time of contract award. In the event of price changes the WV Purchasing rule 148-1-7, 7.15 shall be followed.

1.14 Variation in Quantities and Configurations

Equipped and capacity requirements are the best estimates currently available. The WVOT reserves the right to modify quantity and configuration requirements. The Vendor agrees to sell The WVOT the revised quantity of items at the unit price as stated in the RFQ regardless of quantity changes.

1.15 Prime Vendor

In the event multiple Vendors submit a joint response to this RFQ, a single Vendor shall be identified as the Prime Vendor. Prime Vendor responsibilities shall include performing overall project administration and serving as a focal point for The WVOT to coordinate and monitor plans and schedules, maintain project budget and status information, administer changes required, preside over other Vendors participating or present at The WVOT meetings, and oversee preparation of reports and presentations. Prime Vendor shall also prepare and present a consolidated invoice for work performed. The WVOT shall issue only one (1) check for each consolidated invoice. Prime Vendor shall remain responsible for performing tasks associated with installation and implementation of Prime Vendor's portion of the contract.

1.16 Compliance with Laws and Regulations

The Vendor performance of the work shall comply with applicable federal, state, and local laws, rules, and regulations. The Vendor shall give required notices, shall procure necessary governmental licenses and inspections, and shall pay without burden to The WVOT, all fees and charges in connection therewith unless specifically provided otherwise. In the event of violation, The Vendor shall pay all fines and penalties, including attorney's fees and other defense costs and expenses in connection therewith.

1.17.1 Federal Communications Commission

Equipment requiring FCC registration or approval shall have received such approval and shall be appropriately identified.

1.17.2 Codes, Standards, and Ordinances

All work shall conform to the latest edition of the *National Electrical Code*®, the Building Code, and all local codes and ordinances, as applicable. ANSI/TIA/EIA-568-B.1 through ANSI/TIA/EIA-568-B.3, NECS/BICSI-568 and ANSI/TIA/EIA-569-A shall be adhered to during all installation activities. Methodologies outlined in the latest edition of the BICSI *Telecommunications Distribution Methods Manual* shall also be used during all installation activities. Should conflicts exist with the foregoing, the authority having jurisdiction for enforcement will have responsibility for making interpretation.

1.17 Safety

The Vendor shall take the necessary precautions and bear the sole responsibility for the safety of the methods employed in performing the work. The Vendor shall at all times comply with the regulations set forth by federal, state, and local laws, rules, and regulations concerning "OSHA" and all applicable state labor laws, regulations, and standards. The Vendor shall indemnify and hold harmless The WVOT from and against all liabilities, suits, damages, costs, and expenses (including attorney's fees and court costs) which may be imposed on The WVOT because of The Vendor, subcontractor, or supplier's failure to comply with the regulations stated herein.

1.18 Patents and Royalties

The Vendor, without exception, shall indemnify and hold harmless The WVOT and its employees from any liability of any nature or kind, including costs and expenses for, or on account of, any trademarked, copyrighted, patented, or nonpatented invention, process, or article manufactured or used in the performance of the Contract, including its use by The WVOT. If The Vendor or

subcontractor uses any design, device, or materials covered by letters, patent, trademark, or copyright, it is mutually understood and agreed without exception that the proposal prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

1.19 Indemnification

The Vendor shall indemnify and hold harmless The WVOT, its agents, and employees from or on account of any injuries or damages, received or sustained by any person or persons, during or on account of any operation connected with this Contract; or by consequence of any negligence (excluding negligence by The WVOT, its agents, or employees) in connection with the same; or by use of any improper materials or by or on account of any act or omission of said Vendor or its subcontractors, agents, servants, or employees. The Vendor further agrees to indemnify and hold harmless The WVOT, its agents, or employees, against claims or liability arising from or based upon the violation of any federal, state, county, city, or other applicable laws, bylaws, ordinances, or regulations by The Vendor, its agents, associates, or employees.

The indemnification provided above shall obligate The Vendor to defend at its own expense or to provide for such defense, at The WVOT's option, of any and all claims of liability and all suits and actions of every name and description that may be brought against The WVOT which may result from the operations and activities under this Contract whether the installation operations be performed by The Vendor, subcontractor, or by anyone directly or indirectly employed by either.

The award of this Contract to The Vendor shall obligate The Vendor to comply with the foregoing indemnity provision; however, the collateral obligation of insuring this indemnity must be complied with as set forth.

1.20 Affidavit

West Virginia State Code 5A-3-10a requires that the successful bidder submit an affidavit regarding any debt owed to the State. The affidavit must be signed and submitted prior to award. It is preferred that the affidavit be submitted with the RFQ. The Affidavit can be found at www.state.wv.us/admin/purchase/vrc/nodebt.pdf.

2.0 QUALIFICATIONS

2.1 Project Manager

The Vendor will provide a Project Manager who will act as a single point of contact for all activities regarding this project. The Project Manager will be required to make on-site decisions regarding the scope of the work and any changes required by the work. The Project Manager must be on the job at any time work is being performed or workers are present. The Project Manager will be totally responsible for all aspects of the work and shall have the authority to make immediate decisions regarding implementation or changes to the work.

2.2 Construction Manager

The WVOT shall provide a Construction Manager who shall act as a single point of contact for all activities regarding this project. The Construction Manager will be responsible for all decisions required of The WVOT and shall coordinate with all departments during installation activities. The Construction Manager shall notify The WVOT Inspector when inspections are scheduled and shall coordinate the inspection between The Vendor and The WVOT Inspector.

2.3 Experience

2.3.1 The selected Vendor must be fully capable and experienced in the **telecommunications distribution system** specified. To ensure the system has continued support, The WVOT will contract only with Vendors having a successful history of sales, installation, service, and support. The Vendor must have a minimum of **five (5) years** of experience.

2.3.2 The Vendor must have an **RCDD®** (*Registered Communications Distribution Designer*) on staff that will be ultimately responsible for this project. The RCDD must have sufficient experience in this type project as to be able to lend adequate technical support to the field forces during installation, during the warranty period, and during any extended warranty periods or maintenance contracts. A resume of the responsible RCDD must be provided and should be attached to The Vendor's response. Should the RCDD assigned to this project change during the installation, the new RCDD assigned must meet all requirements of the RFQ.

2.3.3 If, in the opinion of The WVOT, the RCDD does not possess the required qualifications to support the project, The WVOT reserves the right to require The Vendor to assign an RCDD who, in The WVOT's opinion, possesses the necessary skills and experience required of this project.

2.3.4 The Vendor must also have **BICSI Registered Installers and Technicians** on staff and assign them to this project. The project shall be staffed at all times by Installers and Technicians who, in the role of lead crafts persons, will be able to provide leadership and technical resources for the remaining crafts persons on the project. A minimum of 30 percent of personnel shall be BICSI registered telecommunications installers. Of that number 15 percent shall be registered at the *Technician Level*, at least 40 percent shall be registered at the *Installer Level 2*, and the balance shall be registered at the *Installer Level 1*. A copy of their registrations must be provided and should be submitted in The Vendor's response to this RFQ.

2.4 References

The WVOT may, with full cooperation of The Vendors, visit client installations to observe equipment operations and consult with references. Specified visits and discussion shall be arranged through The Vendors; however, The Vendor personnel shall **not** be present during discussions with references. The Vendor must provide a minimum of **three (3)** references which are of the same size in scope and design that have been completed by The Vendor within the last **two (2)** years.

2.5 Liability and Insurance

The Vendor shall assume the full duty, obligation, and expense of obtaining and maintaining necessary insurance.

2.5.1 Insurance Coverage

The Vendor shall be fully liable to provide and maintain in force during the life of this Contract, such insurance, including Public Liability Insurance, Product Liability Insurance, Auto Liability Insurance, Worker's Compensation, and Employer's Liability Insurance as will assure to The WVOT the protection contained in the foregoing indemnification provision undertaken by The Vendor. Such policies shall be issued by United States Treasury-approved companies authorized to do business in the State of West Virginia and having agents upon whom service of process may be made in The WVOT and shall contain as a minimum, the following provisions, coverage's, and policy limits of liability.

2.5.2 General Liability

General Liability Insurance shall protect The WVOT, The Vendor, subcontractor, agents, and employees from claims for damages. The limits of liability provided by such policy shall be no less than Five Hundred Thousand Dollars (U.S. \$500,000.00) per occurrence combined single limit bodily injury and property damage, and an amount not less than One Million Dollars (U.S. \$1,000,000.00) for damages on account of all occurrences.

2.5.3 Product Liability

Product Liability or Completed Operations Insurance shall have bodily injury limits of liability of not less than Five Hundred Thousand Dollars (U.S. \$500,000.00) per person; Five Hundred Thousand Dollars (U.S. \$500,000.00) per occurrence, and Five Hundred Thousand Dollars (U.S. \$500,000.00) aggregate.

2.5.4 Auto Liability

Auto Liability Insurance shall have bodily injury limits of not less than Three Hundred Thousand Dollars (U.S. \$300,000.00) per occurrence and property damage limits of not less than One Hundred Thousand Dollars (U.S. \$100,000.00).

2.5.5 Workers' Compensation and Employer's Liability

Workers' Compensation and Employer's Liability Insurance shall meet minimum requirements set by the State of West Virginia, but in no case less than One Hundred Thousand Dollars (U.S. \$100,000.00).

2.5.6 Proof of Insurance

The Vendor shall furnish to The WVOT a Certificate of Insurance or duplicate policies of insurance described above which specifically protect The WVOT. This will be accomplished by naming The WVOT as a named insured under the policy and by providing an endorsement under the terms of which the insurer specifically agrees not only to pay any claims incurred by or resulting to The WVOT, but also agrees to enter a defense on behalf of The WVOT. The defense includes any and all suits or actions, in which the liability of The WVOT is vicarious and is predicated upon allegation of some act of omission by The Vendor, subcontractor, or his or her agents. This proof shall be received within two (2) working days after notice of award. Purchase order(s) will not be issued until Certificates of Insurance are received.

Such certification must contain a provision for notification of The WVOT thirty (30) days in advance of any material change in coverage or cancellation. Notification shall be in writing and signed in ink by a duly authorized officer of the Insurer.

2.5.7 License Requirements

The successful bidder MUST have a West Virginia Contractor's License. If partnering with subcontractors, only the vendor actually performing the installation of cabling must hold the contractor's license. The license number must be included with the bid response, but the certificate will be required only from the successful vendor. If the prime vendor replaces the networking installation vendor any time during the term of the contract, prior written approval from the WVOT and a properly executed change order to the contract must be processed. The replacement must have a contractor's license and provide a copy before the change will be approved.

2.5.8 Wage Rates

The West Virginia Division of Labor's Building and Construction Wage Rates are made part of the RFQ by reference. The wage rates are available online at the Secretary of State's website: <http://www.wvsos.com/adlaw/wagerates/building02.htm>.

2.5.9 Bonding

2.5.9.1 Bid Bond

A Surety Bond, Certified Check, Cashier's Check, Treasurer's Check, or bank draft of any State or National Bank representing five (5) percent of the total amount of the Vendor's response must accompany the response package.

2.5.9.2 Performance, Labor, Materials Bond

The successful bidder is required to have a valid Performance, Labor, Materials Bond in force covering the work performed up to the acceptance by The WVOT. The Bond must be in the amount of one hundred (100) percent of the Contract amount, guaranteeing to The WVOT the completion and performance of the work covered in such as well as full payment of all suppliers, agents, laborers, or subcontractors employed in the performance of the project. Such Bond shall be in a form and with a surety acceptable to The WVOT and shall provide for the protection of all persons supplying labor or materials used for the performance of the work. Purchase order(s) will not be issued until 100 percent payment bond is received.

The Vendor agrees to keep such Bond, or a replacement thereof, in force at all times during the course of the performance under this project. In addition to the foregoing requirements, such bond shall contain the provision, whether by attaching endorsements or supplemental agreements, guaranteeing to The WVOT the successful completion of the project. The Vendor may comply with the requirements of this provision by causing said Bond to specifically name The WVOT as one of the parties to whom the protection afforded by said Bond is extended or as an alternate, may furnish The WVOT with a separate Performance Bond meeting the same criteria.

2.5.9.3 Qualification of Surety

The Performance, Labor, Materials Bond must be executed by a Surety Company of recognized standing, authorized to do business in the State of West Virginia. The bonds shall be on the State of WV form provided by the Purchasing Division. A certified check, or cashiers check made payable to the State of West Virginia, will also serve as the bid bond.

2.6 Special Conditions

This facility is a facility that provides services to the State of West Virginia and all those having business with the State. As such, activities in all buildings are critical to the provisioning of services and shall not be interrupted by The Vendor's work activities.

The computer and telecommunications systems associated with this work must not be taken off-line or removed from service during normal working hours without The Vendor first making specific arrangements to coordinate any such activities.

The Vendor will be required to work around all of the conditions listed above, as well as working with The WVOT staff to minimize disruptions to normal Customer activities.

2.7 Cancellation

In the event provisions of this RFQ are violated by The Vendor, The WVOT may give written notice to The Vendor stating the deficiencies. Unless deficiencies are corrected within five (5)

working days, recommendations will be made to The Purchasing Division for immediate cancellation. The Purchasing Division reserves the right to terminate immediately any contract resulting from this RFQ for failure to correct deficiencies.

3.0 **INSTALLATION GUIDELINES**

This RFQ includes equipment, materials, labor, and services to provide telecommunications distribution system infrastructure cable including, but not limited to copper twisted pair and multi strand fiber; System testing; Documentation and providing all equipment, materials, labor, and services, not specifically mentioned or shown, which may be necessary to complete or perfect all parts of the installation.

- 3.1 All work performed on this project will be installed in accordance with the current edition of the *National Electrical Code®*, the current edition of the *National Electrical Safety Code®*, the current issue of the *ANSI/NECA/BICSI-568 Standard for Installing Commercial Building Telecommunications Cabling*, the current edition of the *BICSI Telecommunications Distribution Methods Manual*, the current edition of the *BICSI Cabling Installation Manual*, the latest issue of the *ANSI/TIA/EIA Standards* as published by Global Engineering Documents as *ANSI/TIA/EIA Telecommunications Building Wiring Standards*, and all local codes and ordinances.
- 3.2 At a minimum, not limited to, design, manufacture, test, and install telecommunications infrastructure cable per manufacturer's requirements and in accordance with NFPA-70 (*National Electrical Code®*), state codes, local codes, requirements of authorities having jurisdiction, and particularly the following standards:
 - 3.2.1 ANSI/NECA/ Telecommunications Cabling
 - 3.2.2 ANSI/TIA/EIA-568-B.1 -- *Commercial Building Telecommunications Cabling Standard, Part 1: General Requirements*
 - 3.2.3 BICSI-568 -- *Standard for Installing Commercial Building ANSI/TIA/EIA-569-A -- Commercial Building Standard for Telecommunications Pathways and Spaces*
 - 3.2.4 ANSI/TIA/EIA-606(A) -- *The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings*
 - 3.2.5 ANSI/TIA/EIA-607(A) -- *Commercial Building Grounding and Bonding Requirements for Telecommunications*
- 3.3 Install in accordance with the most recent edition of BICSI® publications: *BICSI -- Telecommunications Distribution Methods Manual*
- 3.4 Federal, state, and local codes, rules, regulations, and ordinances governing the work, are as fully part of the specifications as if herein repeated or hereto attached. If the contractor should note items in the drawings or the specifications, construction of which would be code violations, promptly call them to the attention of the State of West Virginia's representative in writing. Where the requirements of other sections of the specifications are more stringent than applicable codes, rules, regulations, and ordinances, the specifications shall apply.

4.0 **INFRASTRUCTURE CABLE SYSTEM DESCRIPTION**

Fiber Optic cable must be Systimax (or equal).
Termination hardware must be Systimax (or equal).

**ALL FIBER AND COPPER CABLE AS WELL AS ALL TERMINATION AND INSTALLATION
MATERIAL USED MUST BE PLENUM RATED**

5.0 GROUNDING

Cable tray grounding must conform to the *National Electrical Code*® 2005 – article 392.7 Grounding

Grounding must conform to ANSI/TIA/EIA 607(A) – *Commercial Building Grounding and Bonding Requirements for Telecommunications*, *National Electrical Code*®, ANSI/NECA/BICSI-568 and manufacturer's grounding requirements at a minimum.

Vendor must bond to the TMGB (Telecommunications Main Grounding Busbar) in room MB 66. The TMGB will be installed in the center of the northern wall a minimum of eight (8) feet above the floor. Vendor will be required to bond and ground equipment racks, housings, messenger cables, and raceways to the TGB ground system via #6 AWG green insulated copper grounding conductor.

Vendor must bond to the TGB (Telecommunications Grounding Busbar) in room all equipment rooms served by the solid trough cable tray. The TGB will be installed in the center of the wall designated by WVOT at a minimum of eight (8) feet above the floor. Vendor will be required to bond and ground equipment racks, housings, messenger cables, and raceways to the TGB ground system via #6 AWG green insulated copper grounding conductor.

6.0 LABELING

Labeling shall conform to ANSI/TIA/EIA-606(A) standards and in addition, provide the following:

- 6.1 Labels shall be machine-printed. Hand-lettered labels shall not be acceptable.
- 6.2 Labels shall be affixed to the infrastructure cable at a minimum of every twenty (20) feet.
- 6.3 Labels shall be at least one (1) inch high black lettering on a white background.

7.0 AS – BUILT DRAWINGS

Three (3) sets of as-built drawing shall be delivered to the State of West Virginia within four (4) weeks of acceptance of project by the State of West Virginia. A set of as-built drawings shall be provided to the State of West Virginia in electronic media form and utilizing CAD software that is acceptable to the State of West Virginia. Within six (6) weeks of acceptance of the project the electronic media must be delivered to the State of West Virginia.

8.0 FIRESTOPPING MATERIALS

All firestopping will be accomplished using Wiremold flamestopper units or equal.

<http://www.wiremold.com/flamestopper/home.asp>

http://www.wiremold.com/shared_content/pdf/ed1312.pdf

All firestop must have a 4 hour rating.

The amount of firestop units required will equal or exceed the capacity of the largest cable tray that is served by the penetration.

No more than a 70% fill rate is allowed on any firestop unit.

Firestopping is required at all locations the cable tray pathway penetrates a wall.

Products shall fill holes, spaces, and voids (hereinafter referenced as cavities) at communications penetrations. Firestopping materials shall also provide adhesion to substrates and maintain fire and smoke seal under normal expected movements of substrates, conduits, and cables.

9.0 FIRESTOPPING

9.1 General

9.1.1 New and existing raceways, cable trays, and cables for power, data, and communications systems penetrating non-rated and fire-rated floors, walls, and other partitions of building construction shall be firestopped where they penetrate new or existing building construction.

9.1.2 Firestopping shall be accomplished by using a combination of materials and devices, including penetrating raceway, cable tray, or cables, required to make up complete firestop.

9.1.3 Verify that cabling and other penetrating elements and supporting devices have been completely installed and temporary lines and cables have been removed.

9.2 Installation

9.2.1 Select appropriate type or types of through penetration firestop devices or systems appropriate for each type of communications penetration and base each selection on criteria specified herein.

9.2.2 Selected systems shall not be less than the hourly time delay ratings indicated in the Contract Documents for each respective fire-rated floor, wall, or other partition of building construction. Firestop for each type of communications penetration shall conform to requirements of an independent testing laboratory design drawing or manufacturer's approved modification when used in conjunction with details shown on the Drawings.

9.2.3 Perform all necessary coordination with trades constructing floors, walls, or other partitions of building construction with respect to size and shape of each opening to be constructed and device or system approved for use in each instance.

9.2.4 Coordinate each firestop selection with adjacent Work for dimensional or other interference and for feasibility. In areas accessible to public and other "finished" areas, firestop systems Work shall be selected, installed, and finished to the quality of adjacent surfaces of building construction being penetrated.

9.2.5 Use materials that have no irritating or objectionable odors when firestopping is required in existing buildings and areas that are occupied.

9.2.6 Provide damming materials, plates, wires, restricting collars, and devices necessary for proper installation of firestopping. Remove combustible installation aids after firestopping material has cured.

9.2.7 All firestops shall be installed in accordance with the manufacturer's instructions in order to maintain the specific rating assigned by the independent testing laboratory.

9.3 Additional requirements for existing penetrations are as follows:

9.3.1 Existing raceways, cable trays, and cabling that penetrate existing building construction shall be firestopped to the extent necessary to fill cavities that may exist between existing building construction and existing communications penetrations or existing conduit sleeve, and between existing conduits and existing conduit sleeve.

9.3.2 Assemblies consisting of individual steel hat type restricting collars filled with intumescent type materials that completely surround communications penetration shall be used for nonmetallic raceways and cabling.

9.4 If required by inspecting authorities:

9.4.1 Expose and remove firestopping to the extent directed by inspecting authority to permit his or her inspection.

9.4.2 Reinstall new firestopping and restore Work where removed for inspection.

10. SLEEVES

10.1 Provide sleeves for new conduit and cable penetrations of building construction.

10.1.1 Openings to accept sleeves in new building construction will be formed in building construction by the Contractor for General Construction work. Openings to accept sleeves in existing building construction shall be provided under this division of the Specifications. Refer to Article, CUTTING AND PATCHING in this Section.

10.1.2 Use electrical metallic tubing sleeves for penetrations through exterior masonry/concrete walls and foundations, concrete floor slabs on grade and above grade, and concrete-filled decks.

10.1.3 Use only fire-rated listed assemblies for the type of sleeve being installed through CMU walls or gypsum walls for communications penetrations. Sleeve type shall be electrical metallic tubing.

10.2 Where conduits are installed before building construction being penetrated, install sleeves loose around conduits.

10.2.1 Split, fit, and weld steel sleeves over existing conduits.

10.3. Secure sleeves firmly in place using filling and patching materials (grout) that match with surrounding construction.

10.4 In floor penetrations, extend sleeve 4" above finished floor unless noted otherwise. In wall penetrations, cut sleeves flush with wall surface and use metal escutcheon plates in finished interior areas.

10.5 Seal voids between sleeves and building construction with joint sealants. Make allowances for and coordinate the Work with installation of firestopping, conduit insulation, and waterproofing, as applicable.

10.6 The Contractor shall be fully responsible for final and correct location of sleeves.

10.6.1 Sleeves which are omitted or incorrectly located in existing building construction, shall be corrected and provided by the Communications Contractor.

11.0 PENETRATIONS OF BUILDING SURFACES

11.1 Fire-resistant Areas

11.1.1 Provide through-penetration firestop systems for penetrations through fire-rated walls, floors, and other partitions of building construction as specified in Article, FIRESTOPPING in this Section.

11.1.2 In walls or partitions with 2-hour or less fire ratings, provide only metallic outlet or device boxes installed per UL Fire Resistance Director, NEC, and other national building code requirements.

11.2. Firestopping

11.2.1 Manufacturer's technical data for each product including product description, specifications including labeling or listing by an agency acceptable to the Engineer/Designer, and storage requirements.

11.2.2 Firestop design basis documentation that shall include schedule indicating each type of communication penetration, type of building construction being penetrated including the hourly resistance rating of floor, wall, or other partition of building construction into which firestop design will be installed, and firestop device or system proposed for use.

11.2.3 Applicable design drawings by Engineer/Designer-approved testing laboratories.

11.2.4 Installation Procedures and Material Safety Data Sheets shall be included with products delivered to the job site.

11.2.5 Include in project's maintenance manuals, maintenance data that may be published by manufacturer.

12.0 **FIRESTOP REFERENCES**

The vendor must adhere to the following guidelines:

ASTM E814, Standard Method of Fire Tests of Through-Penetration Firestops.

UL 1479, Fire Tests of Through-Penetration Firestops.

UL Fire Resistance Directory: Through Penetration Firestop Devices (XHCR) and Through Penetration Firestop Systems (XNEZ).

ASTM E 119, Fire Tests of Building Construction and Materials (for fire-rated architectural barriers).

2002 NFPA National Electrical Code, Section 800-52, Paragraph 2(B), *Spread of Fire and Products of Combustion*.

ANSI/NECA/BICSI-568, Standard for Installing Commercial Building Telecommunications Cabling, Section 5, Clause 5.1 through 5.2.3, *Firestopping*

2000 edition of the BICSI Telecommunications Distribution Methods Manual, Chapter 15, *Firestopping*.

Factory Mutual Approval Guide.

ULC List of Equipment and Materials, VOL. II.

Installed firestopping systems shall meet approval of authorities having jurisdiction.

13.0 **REMOVAL AND REPLACEMENT OF EXISTING CEILINGS**

13.1 Carefully remove entire existing ceilings in the building as required to install cable tray. Store removed tiles in an area designated by the State of West Virginia. Modify and augment existing suspension systems as necessary. Damaged ceiling tiles will be considered trash. The vendor will dispose of the removed tiles in a designated area or dumpster.

13.2 Restoration of the ceiling systems to their original finish in a non-refurbished area will not be a requirement of this RFQ.

13.3 Restoration of the ceiling systems to their original finish in a newly refurbished area will be a requirement of this RFQ. The original tiles may be put back up if they are not damaged during removal.

14.0 CUTTING AND PATCHING

14.1 Provide openings, cutting, coring, and patching of openings in existing building construction as required. Patching includes openings and voids left in existing construction as a result of demolition.

14.2 The Work shall include necessary assemblies and materials to maintain required fire ratings.

14.3 Perform cutting as to not impair structural stability of building construction and systems. Do not drill holes or weld attachments to beams and other structural members without prior written approval from the State of West Virginia's Representative.

14.4 The Work shall be done by crafts persons skilled in the particular trades affected.

14.5 Patching materials shall match existing materials in type and quality. Patching shall be done in a manner to match appearance of adjacent surfaces.

14.6 The successful vendor is only responsible for openings in walls that the vendor makes.

15.0 CLEANING

15.1 Cleaning shall be performed to the satisfaction of the State of West Virginia's Representative.

15.2 Unless otherwise indicated, clean shall mean free of dust, dirt, mud, debris, oil, grease, residues, and contamination. Acceptability shall be determined by sight, touch, and wiping with a clean soft cloth and suitable cleaning agent.

16.0 PAINTING

16.1 Touch up marred and bared surfaces of primed, galvanized, and finish painted equipment, materials, and accessories installed.

16.2 Restore patched surfaces as close to the original condition and finish as reasonably possible. Where patching occurs in smooth painted surface, extend final paint coat over entire unbroken surface containing patch, after patched area has received two coats of primer and two coats of finished paint.

- 17.0** Hours can be flexible and varied but must be approved by the Office of Technology.
- 18.0** The State will provide space for staging of materials on site, but will not be responsible for staged materials.
- 19.0** All termination hardware will be accomplished using Systimax products or equal. The State has included in this document additional information for the rooms. All installed copper pairs and fiber strands must be terminated and tested to manufactures specifications and be plenum rated.

Clarifications that were made after this was bid out the first time:

1. We are establishing a standard within the state. Copper cable and outlet jack colors must match. Vendor shall use Orange for Security, Green for Video, Yellow for wireless, and Blue for data.
2. The locations for Physical Security, Video, and Wireless will vary as the renovations project progresses. Each location will require two (2) drops each (i.e. Physical Security = 2, Video = 2, etc... even if located in the same area).
3. Cable TV drops – will be pulled from Room 62 to the following rooms. 4 each drops in 42A, 42B, and lobby; 2 drops each in rooms 40, 48, 60, 74, and Small Conference Room.
4. Data drops – Each location will provide for two Category 6 cables within a single face plate.
5. Total drop count – DATA = 030, Physical Security = 28, Video = 46, and Wireless = 16. Grand total of all drops = 1020.
6. Hawthorne is the brand of furniture that will be used and the color required is “ivory”. You will need to provide a plate to fit into each place. There will be a pre-cut hole.
7. Price all items as required on price sheets. If the quantity price is available on any item divide that pricing and use it as the price “each”. Price quoted will be used for the life of the contract.
8. The outdoor cable transitions will occur within 50 feet upon entering the building.
9. Fiber, copper cable, and all terminating hardware used in the horizontal infrastructure must be from the same manufacture for the entire project.
10. All fiber optic cable is armored all the way through.
11. Vendor must provide within the quote a labor rate for each job classification assigned to the project.
12. The use of brand name or equal specifications is for the purpose of describing the minimum standard of quality, technical performance and installation characteristics required and are not intended to limit or restrict competition.

Alternate bids that meet or exceed those of the brand name or equal specifications and features are invited. In order to receive full consideration, such alternate bids should be accompanied by sufficient descriptive literature and/or samples to clearly identify the offer and allow for a complete evaluation.

Vendors must provide descriptive literature and samples if bidding alternative products. This information should be submitted with the response to the RFQ to allow the West Virginia Office of Technology time to make a determination of equality to the brand specified. Failure to provide descriptive literature and samples may result in the bid being rejected as non-responsive and will extend the award determination and cause the construction timeline to be jeopardized.

Samples must include at a minimum each product bid:

- Fiber shelf termination units
- Copper patch panels
- Manufacturer's fiber optic cable specifications
- Manufacturer's fiber optic installed test results specifications

- Manufacturers category 6 cable specifications
- Manufacturer's category 6 installed test results specifications



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

WV PURCHASING ACA SECT Fax 304-558-4115

Jul 7 2008 01:46pm P001/003

Request for Quotation

RFQ NUMBER
ISCH0262

PAGE
1

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

RFQ COPY

TYPE NAME/ADDRESS HERE

Pomeroy IT Solutions, Inc.
1020 Petersburg Road
Hebron, Kentucky 41048

DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES
BUILDING 1 ROOM MB60
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0123 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
07/07/2008				

BID OPENING DATE: 07/10/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOF	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				(Addendum 2) ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO ANSWER ALL TECHNICAL QUESTIONS SUBMITTED PRIOR TO THE 07/03/2008 DEADLINE.		
				BID OPENING DATE REMAINS: 07/10/2008 BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 1 *****		
0001	1	LS		285-10		
				FIBER OPTIC CABLING FOR 3 BUILDINGS		
				***** THIS IS THE END OF RFQ ISCH0262 ***** TOTAL:		\$523,030.10

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Mike Ferrell</i>	800.227.8798 x114	July 9, 2008
TITLE	FAX	ADDRESS CHANGES TO BE NOTED ABOVE
Govnmt/Ed Account Executive	31-1227808	

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

ISCH0262
Addendum No. 1
Answers to Technical Questions

- 1.) During the original pre-bid meeting and walk thru, the request was made to all vendors present that it was the vendor's responsibility to Demo and remove all of the old cabling and equipment, yet this was not specified within the body of the RFQ. Is this going to be a requirement of the successful vendor, and if so, shouldn't it be within the body of the RFQ? Is the successful vendor responsible for disposing of the demoed materials? Do you want a single line item quote or as part of the labor?

Answer: While it was not in the pre-bid, a pre-bid is also a time to address or correct and confirm item or actions missing withing the RFQ for both the potential vendors and State of WV. All of the "old" cabling will be the responsibility of the winning vendor to remove and dispose of properly. The vendor will be responsible for the removal and proper disposal of the replaced existing cable as per (including but not limited to) NEC Code 2002 paragraphs 800.2, 800.52(B), 800.52(1), and 770.2

- 2.) In the body of the RFQ it states that all cable runs will be labeled every 20 feet with a 1" high text black on white label. This increases the labor required, due to the increase in time and attention that is needed to perform this request. Is this a truly necessary request?

Answer: Yes it is necessary. Since these runs will be long and above an enclosed ceiling, it's important to mark them for ease of identity.

This installation should be done within the intent and spirit of BICSI Standards. This installation must be completed to the ANSI/TIA/EIA standards (including but not limited to) 568-B.1-2001, 568-B.1-1-2001, 568-B.1-2-2003, 568-B.1-3-2003, 568-B.1-4-2003, 568-B.1-5-2004, AND 606-A-2002. References may have been or will be updated during the life of this contract and must be adhered to be the successful vendor.

- 3.) Since this is the second time this RFQ has been issued, and there is no perceived change in the body of the RFQ? Why is it being Re bid? Why is there not another pre bid meeting? If there is no pre bid meeting, then shouldn't only those who were at the original pre bid be allowed to answer this RFQ?

Answer: The first attempt at the bid no vendor met the specifications. Another pre-bid meeting is not warranted because the bid and equipment is the same. The bids received on the original RFQ were disqualified due to errors in submission not due to materials or to the scope of the project thus a new pre-bid would be unnecessary. State Purchasing rules and laws govern submission of bids.

4.) Did an RCDD design and write the specs for this RFQ?

Answer: No

RFQ # ISCH0263



Kanawha County DHHR CAT6 and Fiber Materials List

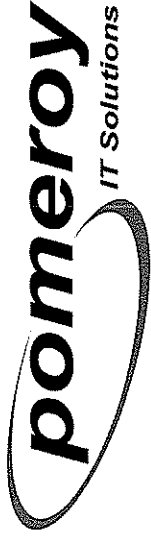
6.0 Cabling Bill of Materials List

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	Unit Price \$	EXT PRICE
1	<u>CONSOLIDATION POINT CAT-6 CABLING</u>				
2	LEVZ1000-AC4	2 X 4 CEILING ENCLOSURE	10	\$ 1,569.60	\$ 15,696.00
3	760074294	VISIPATCH 360 RACKMOUNT KIT	36	\$ 79.76	\$ 2,871.50
4	760049445	VP360-4U-32P, VISIPATCH 360, 4U, 32-PORT	18	\$ 150.53	\$ 2,709.50
5	760060350	VP360-788-HEAD, 4-PAIR HEAD	1	\$ 36.18	\$ 36.18
6	108062043	788H1 IMPACT TOOL	1	\$ 202.10	\$ 202.10
7	760060368	VP360-914-BIT, 1-PAIR BIT	1	\$ 28.94	\$ 28.94
8	WCEM58281	MOHAWK CAT6 LAN - PLENUM / 1000', BLUE	150	\$ 381.82	\$ 57,272.40
9	LEV41084-BIB	QUICKPORT BLANK, IVORY BAG OF 10	10	\$ 0.17	\$ 1.68
10	LEV49910-SI4	STANDARD MOD. FURN. FACEPLATE, 4-PT	250	\$ 1.96	\$ 489.00
11	LEV51084-ICN	INSERT SHUTTER KIT, MISC ICONS 50-CT	10	\$ 7.84	\$ 78.36
12	LEV61110-RL6	CAT6 KEYSTONE JACK, BLUE	550	\$ 5.99	\$ 3,293.40
13	LEV69586-U48	CAT6 48-PORT PATCH PANEL, 110 STYLE	21	\$ 281.16	\$ 5,904.36
14	TOTAL				\$ 88,583.44

OFFICE AREA CAT6 CABLING

15					
16	WCEM58281	MOHAWK CAT6 LAN - PLENUM / 1000', BLUE	100	\$ 381.60	\$ 38,160.00
17	LEV41080-4IP	4-PORT QUICKPORT WALLPLATE, IVORY	250	\$ 1.09	\$ 273.00
18	LEV41084-BIB	QUICKPORT BLANK, IVORY BAG OF 10	50	\$ 0.17	\$ 8.40
19	LEV51084-ICN	INSERT SHUTTER KIT, MISC ICONS 50-CT	10	\$ 7.84	\$ 78.36
20	LEV61110-RL6	CAT6 KEYSTONE JACK, BLUE	550	\$ 5.99	\$ 3,293.40
21	LEV69586-U48	CAT6 48-PORT PATCH PANEL, 110 STYLE	10	\$ 281.16	\$ 2,811.60
22	LEV86014-000	SINGLE GANG BLANK PLATE, ALMOND	300	\$ 0.24	\$ 72.00
23	ARTLV1	SINGLE GANG LOW VOLTAGE RING	300	\$ 1.01	\$ 303.84
24	TOTAL				\$ 45,000.60
25					

WIRELESS ACCESS POINTS



RFQ # ISCH0263

Kanawha County DHHR CAT6 and Fiber Materials List

6.0 Cabling Bill of Materials List

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	Unit Price \$	EXT PRICE
26	WCEM58178	MOHAWK CAT6 LAN - PLENUM / 1000, YELLOW	10	\$ 381.60	\$ 3,816.00
27	LEV41089-4WP	4-PORT SURFACE MOUNT BOX, WHITE	10	\$ 2.58	\$ 25.80
28	LEV51084-ICN	INSERT SHUTTER KIT, MISC ICONS 50-CT	10	\$ 7.84	\$ 78.36
29	LEV61110-RY6	CAT6 KEYSTONE JACK, YELLOW	48	\$ 5.99	\$ 287.42
30	LEV69586-U48	CAT6 48-PORT PATCH PANEL, 110 STYLE	1	\$ 281.16	\$ 281.16
31		TOTAL		\$	4,488.74

ACCESS CONTROL CAT6 CABLING

33	WCEM58288	MOHAWK CAT6 LAN - PLEN. / 1000', ORANGE	10	\$ 381.60	\$ 3,816.00
34	LEV41089-4WP	4-PORT SURFACE MOUNT BOX, WHITE	16	\$ 2.58	\$ 41.28
35	LEV51084-ICN	INSERT SHUTTER KIT, MISC ICONS 50-CT	10	\$ 7.84	\$ 78.36
36	LEV61110-RO6	CAT6 KEYSTONE JACK, ORANGE	48	\$ 5.99	\$ 287.42
37	LEV69586-U48	CAT6 48-PORT PATCH PANEL, 110 STYLE	1	\$ 281.16	\$ 281.16
38		TOTAL		\$	4,504.22

IP CAMERA CAT6 CABLING

40	WCEM58286	MOHAWK CAT6 LAN - PLENUM / 1000', GREEN	12	\$ 381.60	\$ 4,579.20
41	LEV41089-4WP	4-PORT SURFACE MOUNT BOX, WHITE	25	\$ 2.58	\$ 64.50
42	LEV51084-ICN	INSERT SHUTTER KIT, MISC ICONS 50-CT	10	\$ 7.84	\$ 78.36
43	LEV61110-RV6	CAT6 KEYSTONE JACK, GREEN	48	\$ 5.99	\$ 287.42
44	LEV69586-U48	CAT6 48-PORT PATCH PANEL, 110 STYLE	2	\$ 281.16	\$ 562.32
45		TOTAL		\$	5,571.80

CATV

47	IDE89-055	RG-6 COMPRESSION F, 50-CT JAR	4	\$ 28.80	\$ 115.20
48	LEV41084-FIF	KEYSTONE F-CONN. INSERT, IVORY	50	\$ 1.74	\$ 87.00
49	WCEM71002	DUAL SHIELD R6-6 - PLENUM / 1000'	4	\$ 498.00	\$ 1,992.00
50		TOTAL		\$	2,194.20

RFQ # ISCH0263



Kanawha County DHHR CAT6 and Fiber Materials List

6.0 Cabling Bill of Materials List

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	Unit Price \$	EXT PRICE
51		<u>SPEAKERS</u>			
52	E-PV9022	VALCOM 2 X 2 DROP-IN SPEAKERS	80	\$ 78.00	\$ 6,240.00
53		TOTAL		\$	6,240.00

FIBER AND COPPER BACKBONE: DHHR TO WIC

55	LEV5P130-00N	1U MODULAR SHELF	2	\$ 200.40	\$ 400.80
56	LEV747BF-P06	4" BARE FUSION MINI SPLICE TRAY	2	\$ 21.50	\$ 43.01
57	LEV50PSC-M03	3-METER 50/125 MM FUSION SPLICE PIGTAIL	12	\$ 8.57	\$ 102.82
58	WCEM9C202	50/125 MM PLENUM IN/OUT LOOSE TUBE	600	\$ 1.42	\$ 849.60
59	WCETEL24/25PDB	24 AWG / 25 PR DIRECT-BURY PE-89	200	\$ 0.92	\$ 183.84
60	WCETEL24/25PC3P	24AWG / 25PR CAT3 TELEPHONE - PLENUM	400	\$ 1.13	\$ 451.20
61	CIR1880B1-25	CIRCA 25 PAIR 110 IN/OUT ENTRANCE TERM.	2	\$ 128.40	\$ 256.80
62	CIR3B1E	ENTRANCE TERMINAL GAS MODULE	50	\$ 2.78	\$ 139.20
63	3-MKB2-100-2	3M SPLICE CASE	1	\$ 112.56	\$ 112.56
64	3-M710-SC1-25	25-PAIR SPLICE MODULE	1	\$ 6.30	\$ 6.30
65	LEV5G596-U24	CAT5E 24-PORT PATCH PANEL, 110 STYLE	2	\$ 96.06	\$ 192.12
66	LEV492RU-HFO	HORIZONTAL 2RU WIRE MGR, FRONT ONLY	4	\$ 34.10	\$ 136.42
67	HOFE-DR19FM45U	HOFFMAN 2-POST OPEN FRAME RACK	2	\$ 132.53	\$ 265.06
68	PNTRGRB19Y	1/4" X 1" X 19 1/4" HOR. GROUND BAR	1	\$ 133.80	\$ 133.80
69		TOTAL		\$	3,273.52

DHHR INTRABUILDING FIBER AND COPPER BACKBONE: MER TO MIPOP

71	LEVUPPSC-S03	3-METER 9/125 SM FUSION SPLICE PIGTAIL	6	\$ 13.36	\$ 80.14
72	WCETEL24/25PC3P	24AWG / 25PR CAT3 TELEPHONE - PLENUM	400	\$ 1.13	\$ 451.20
73	SIE95-201-41-SP	SM SC FIBER CONNECTOR	6	\$ 11.45	\$ 68.69
74	WCEM9W015	9/125 SM PLENUM INDOOR TIGHT BUFFER	400	\$ 0.90	\$ 360.00
75	LEV5W110-00N	WALL MOUNT FIBER ENCLOSURE	1	\$ 68.99	\$ 68.99

RFQ # ISCH0263



Kanawha County DHHR CAT6 and Fiber Materials List

6.0 Cabling Bill of Materials List

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	Unit Price \$	EXT PRICE
76	LEV5F100-3ZC	3 DUPLEX SC FIBER PANEL ADAPTER	1	\$ 32.72	\$ 32.72
77	LEV5F100-BLK	BLANK FIBER PANEL ADAPTER	1	\$ 6.35	\$ 6.35
78	LEV41A10-HCM	110 STYLE HORIZONTAL CORD MGR W/ LEGS	1	\$ 7.08	\$ 7.08
79	LEV49104-IDC	C-4 CONNECTOR CLIPS - BAG OF 10	1	\$ 5.60	\$ 5.60
80	LEV41AW1-050	50-PAIR WALL MOUNT 110 BLOCK W/ LEGS	1	\$ 7.68	\$ 7.68
81	LEV5G596-U24	CAT5E 24-PORT PATCH PANEL, 110 STYLE	1	\$ 96.06	\$ 96.06
82	LEV49253-LPM	4" 1RU HORIZONTAL PATCH CORD MGR	1	\$ 31.01	\$ 31.01
83	EMSES14212BIM	1/4" X 2" X 12" GROUND BAR W/BRAKET	1	\$ 85.06	\$ 85.06
84		TOTAL		\$	1,300.57

CABLE TRAY

86	CABCF54/450	18" X 10' BASKET TRAY	100	\$ 79.18	\$ 7,917.60
87	CABCF54/300	12" X 10' BASKET TRAY	75	\$ 74.82	\$ 5,611.50
88	CABSWKEZ	SPLICE WASHER KIT / 50-PK	25	\$ 54.00	\$ 1,350.00
89	CABEZT90KIT	90-DEGREE BEND KIT	25	\$ 12.84	\$ 321.00
90	CABDROPOUT	CABLE WATERFALL DROPOUT	25	\$ 12.40	\$ 309.90
91		TOTAL		\$	15,510.00

ADDITIONAL TRAY MATERIAL, REQUIRED BUT NOT INCLUDED IN BID PRICE

93	CABFASPC450	18" CENTER HANGER	143	\$ 12.36	\$ 1,767.48
94	CABFASPC300	12" CENTER HANGER	108	\$ 8.88	\$ 959.04
95	S-CR648	1/2" X 6' THREADED ROD	143	\$ 1.20	\$ 171.60
96	S-CR638	3/8" X 6' THREADED ROD	108	\$ 0.96	\$ 103.68
97	MTSJSW76	1/2" FLAT WASHER	286	\$ 0.96	\$ 274.56
98	MTSJN166	1/2" HEX NUT	286	\$ 0.06	\$ 17.16
99	MTSJSW75	3/8" FLAT WASHER	216	\$ 0.36	\$ 77.76
100	MTSJN165	3/8" HEX NUT	216	\$ 0.06	\$ 12.96

RFQ # ISCH0263



Kanawha County DHHR CAT6 and Fiber Materials List

6.0 Cabling Bill of Materials List

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	Unit Price \$	EXT PRICE
101	CABEZBN1/4	BOLT / NUT - 50-PK	1	\$ 9.00	\$ 9.00
102	CABCE25	SPLICE WASHER / 50-PK	1	\$ 16.80	\$ 16.80
103	CABCLIPBLUE	CABLE TRAY IDENTIFICATION LABEL - BLUE	700	\$ 12.10	\$ 8,467.20
104	CABGNDCL	CABLE TRAY GROUNDING CLAMP	175	\$ 6.46	\$ 1,129.80
105		TOTAL		\$	\$ 13,007.04

MAIN EQUIPMENT ROOM (IMER)

107	HOFE-DR19FM45U	HOFFMAN 2-POST OPEN FRAME RACK	5	\$ 132.53	\$ 662.64
108	LEV4980L-VFO	80" VERTICAL CABLE MGR, FRONT ONLY	8	\$ 110.58	\$ 884.64
109	HOFSS18BLK	18" X 10' LADDER TRAY	8	\$ 86.36	\$ 690.91
110	HOFRRMPBLK18	18" RACK TO RUNWAY MOUNTING KIT	4	\$ 32.10	\$ 128.40
111	HOFBLSKB	LADDER TRAY BUTT-SPLICE KIT	2	\$ 8.98	\$ 17.95
112	HOFJLSKB	LADDER TRAY JUNCTION SPLICE KIT	4	\$ 9.16	\$ 36.62
113	HOFWASK18BLK	18" LADDER TRAY WALL SUPPORT BRACKET	5	\$ 25.46	\$ 127.32
114	HOFE4DR19FM38U	4-POST OPEN FRAME ADJUSTABLE RACK	2	\$ 630.96	\$ 1,261.92
115	HOFD19FVT69B	4-POST VENTED ADJUSTABLE SHELF	8	\$ 153.14	\$ 1,225.15
116	PNTRGRB19Y	1/4" X 1" X 19 1/4" HOR. GROUND BAR	8	\$ 133.80	\$ 1,070.40
117		TOTAL		\$	\$ 6,105.96

\$ 327,250.00

Mohawk/Leviton \$ 195,780.10

\$ 523,030.10



RFQ # ISCH0263

Kanawha County DHHR CAT6 and Fiber Materials List

6.0 Cabling Bill of Materials List

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	Unit Price \$	EXT PRICE
118	MISC ADDITIONAL EQUIPMENT - ALTERNATE BID (NOT INCLUDED IN TOTAL PRICE)				
119	LEV62460-01Y	1' CAT6 PATCH CORD - YELLOW	1	\$ 5.06	\$ 5.06
120	LEV62460-03Y	3' CAT6 PATCH CORD - YELLOW	1	\$ 5.76	\$ 5.76
121	LEV62460-05Y	5' CAT6 PATCH CORD - YELLOW	1	\$ 6.67	\$ 6.67
122	LEV62460-07Y	7' CAT6 PATCH CORD - YELLOW	1	\$ 7.29	\$ 7.29
123	LEV62460-10Y	10' CAT6 PATCH CORD - YELLOW	1	\$ 8.45	\$ 8.45
124	LEV62460-01G	1' CAT6 PATCH CORD - GREEN	1	\$ 5.06	\$ 5.06
125	LEV62460-03G	3' CAT6 PATCH CORD - GREEN	1	\$ 5.76	\$ 5.76
126	LEV62460-05G	5' CAT6 PATCH CORD - GREEN	1	\$ 6.67	\$ 6.67
127	LEV62460-07G	7' CAT6 PATCH CORD - GREEN	1	\$ 7.29	\$ 7.29
128	LEV62460-10G	10' CAT6 PATCH CORD - GREEN	1	\$ 8.45	\$ 8.45
129	LEV62460-01O	1' CAT6 PATCH CORD - ORANGE	1	\$ 5.06	\$ 5.06
130	LEV62460-03O	3' CAT6 PATCH CORD - ORANGE	1	\$ 5.76	\$ 5.76
131	LEV62460-05O	5' CAT6 PATCH CORD - ORANGE	1	\$ 6.67	\$ 6.67
132	LEV62460-07O	7' CAT6 PATCH CORD - ORANGE	1	\$ 7.29	\$ 7.29
133	LEV62460-10O	10' CAT6 PATCH CORD - ORANGE	1	\$ 8.45	\$ 8.45
134	PNTGB2B0306TPI-1	1/4" X 2" X 12" GROUND BAR W/BACKET	1	\$ 114.40	\$ 114.40
135	PNTGB2B0312TPI-1	1/4" X 2" X 20" GROUND BAR W/BACKET	1	\$ 143.00	\$ 143.00
136	PNTRGS134-1Y	1/4" X 5/8" X 36" VERT. RACK GROUND BAR	1	\$ 114.40	\$ 114.40
137	PNTRGS134-1Y	1/4" X 5/8" X 72" VERT. RACK GROUND BAR	1	\$ 114.40	\$ 114.40
138	PNTRGRB19Y	1/4" X 1" X 19-1/4" HOR. RACK GROUND BAR	1	\$ 72.80	\$ 72.80

ACORDTM CERTIFICATE OF LIABILITY INSURANCE		DATE (MM/DD/YYYY) 06/10/2008
PRODUCER (859)431-1235 FAX (859)431-0437 Chas. H. Bilz Insurance Agency, Inc. Post Office Box 12666 Covington, KY 41012-0666 CIC, CISR, Tammy Schneider		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
INSURED Pomeroy IT Solutions, Inc. 1020 Petersburg Rd. Hebron, KY 41048		
		INSURERS AFFORDING COVERAGE
		INSURER A: Travelers
		INSURER B:
		INSURER C:
		INSURER D:
		INSURER E:
		NAIC # 24767

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR	ADD'L LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A		GENERAL LIABILITY	TE00802080	03/31/2008	03/31/2009	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/>	COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000
	<input type="checkbox"/>	CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				MED EXP (Any one person) \$ 10,000
						PERSONAL & ADV INJURY \$ 1,000,000
		GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE \$ 2,000,000
		<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				PRODUCTS - COMP/OP AGG \$ 2,000,000
A		AUTOMOBILE LIABILITY	TE00802080	03/31/2008	03/31/2009	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/>	ANY AUTO				BODILY INJURY (Per person) \$
	<input type="checkbox"/>	ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
	<input type="checkbox"/>	SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/>	HIRED AUTOS				
	<input type="checkbox"/>	NON-OWNED AUTOS				
	<input checked="" type="checkbox"/>	Hired Car PD				
		\$3000 ded applies				
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT \$
		<input type="checkbox"/> ANY AUTO				OTHER THAN EA ACC \$
						AUTO ONLY: AGG \$
A		EXCESS/UMBRELLA LIABILITY	TE00802080	03/31/2008	03/31/2009	EACH OCCURRENCE \$ 20,000,000
	<input checked="" type="checkbox"/>	OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE \$ 20,000,000
	<input type="checkbox"/>	DEDUCTIBLE				\$
	<input checked="" type="checkbox"/>	RETENTION \$				\$ 10,000
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/>
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT \$ 0
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE \$ 0
						E.L. DISEASE - POLICY LIMIT \$ 0
A		OTHER	TE00802080	03/31/2008	03/31/2009	\$ 1,000,000/\$3,000,000
		Employee Benefits Liab				\$ 1,000 ded.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
 Blanket Add'l Insured coverage applies to any person or organization with whom the Named Insured enters into a written contract that requires such. Blanket Waiver of Subrogation applies to GL. Comm'l Automobile policy automatically provides add'l insured status to anyone liable for the conduct of an insured but only to the extent of that liability. Commercial Umbrella policy is following form.

CERTIFICATE HOLDER

CANCELLATION

Insurance Verification	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL <u>30</u> DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.
	AUTHORIZED REPRESENTATIVE James Berger

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)
06/11/08PRODUCER
Wells Fargo Insurance Services
of Ohio, LLC
014 Vine Street
Suite 1100
Cincinnati, OH 45202

1-513-333-0909

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED
Pomeroy IT Solutions, Inc.

1020 Petersburg Road

Hebron, KY 41048

INSURER A: Travelers Property Casualty Company of America

INSURER B:

INSURER C:

INSURER D:

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	GENERAL LIABILITY				EACH OCCURRENCE \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY				FIRE DAMAGE (Any one fire) \$
	<input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR				MED EXP (Any one person) \$
					PERSONAL & ADV INJURY \$
					GENERAL AGGREGATE \$
	GEN'L AGGREGATE LIMIT APPLIES PER:				PRODUCTS - COMP/OP AGG \$
	<input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC				
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO				BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS				
	<input type="checkbox"/> NON-OWNED AUTOS				
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT \$
	<input type="checkbox"/> ANY AUTO				OTHER THAN EA ACC \$
					AUTO ONLY: AGG \$
	EXCESS LIABILITY				EACH OCCURRENCE \$
	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE \$
					\$
	<input type="checkbox"/> DEDUCTIBLE				\$
	<input type="checkbox"/> RETENTION \$				\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	HC2JUB3761C8 (Ded Policy)	03/31/08	03/31/09	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
A		HRJUB117D320 (Retro Policy)	03/31/08	03/31/09	E.L. EACH ACCIDENT \$ 1000000
					E.L. DISEASE - EA EMPLOYEE \$ 1000000
					E.L. DISEASE - POLICY LIMIT \$ 1000000
	OTHER				\$
					\$
					\$

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
INSURANCE VERIFICATION

CERTIFICATE HOLDER

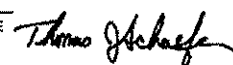
ADDITIONAL INSURED; INSURER LETTER:

CANCELLATION

INSURANCE VERIFICATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ACORD 25-S (7/97) ACO650 1566
9021871

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IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

81 Hunting Ridge Drive
Mystic, CT
06355

Phone (860)245-0881
E-mail
bnbconnell@peoplepc.com

Robert W Connell, RCDD

Objective

Management position with the opportunity for advancement to upper level management and administration.

Professional experience

2001 - 2005 The Siemon Company Watertown, CT

Structured Cabling System Specialist

- As a Structured Cabling System Specialist I headed the Design Assistance Program where I directed and performed the design of structured cabling systems including basic competitor cross-references, Bill of Materials from blue prints and written specifications, writing Bid Specifications, Rack Elevation Drawings, and complete Structured Cabling System Designs. Additional responsibilities included working with Product Management on product validation and testing, answering incoming customer calls for technical assistance on installation, part number, and general information on the products offered.

2000 - 2001 Hubbell Premise Wiring Stonington, CT

Business Development Manager

- As the Business Development Manager I researched, planned, developed, and directed the overall sales and marketing activities for the SoHo and Fiber Optic products and Services to emerging and alternate markets/sales channels including the CATV, SoHo, Retail Markets, and the OEM segment. Researched and provided recommendations covering product requirements, marketing support (trade shows, brochures, advertising), lifecycle analysis, and sales coverage to the referenced markets. Conducted product presentations and training to educate users with regards to standards requirements, applications, and products.

1993 - 2000 KRONE Incorporated Englewood, CO

Product Manager/Technical Support Engineer

- As Product Manager I lead the development team in the definition, vendor qualifications, lifecycle analysis, and development of a complete Fiber Optic Portfolio as well as many Copper Based Products. Maintained yearly forecasts and stocking levels for all components and finished products. Spent time with the Sales Engineers to come up with new ideas for improving existing product lines and creating new products.
- As Technical Support Engineer I would take incoming customer calls that require technical assistance on installation, part number, and general information on the products offered. Made detailed AutoCad drawings for the layout of all closets within a customer's site that included Bill of Materials to ensure the customer gets exactly what they needed for each project. Tested and validated products for the development department.

**Additional
professional
activities**

- Worked on getting KRONE Inc's manufacturing plant set up in Toluca, Mexico including working with both U.S. Customs and Mexican Customs, and Secofi (equivalent to the U.S. Dept. of Commerce) on getting set up as a "Mequiladora Operation". Well versed in NAFTA as I was in charge of all international shipments for KRONE from 1994 through 1998.
- Former voting committee member to TIA 42.8 (Fiber Optics) and 42.9 (Industrial Premises) sub-committees. Was one of the Editors to TIA 42.9 sub-committee where we were charged with writing the new standard for Industrial Premises, which is to be published as TIA-1005.
- Former Voting committee member for the Joint Special Interest Group (JSIG) of the Open DeviceNet Vendor Association (ODVA) which published the Ethernet/IP specification and the planning and installation manual for Industrial Premises. Formerly one of the editors charged with writing the Planning and Installation Manual for the Ethernet/IP Specification.

**Professional
memberships**

Member of BICSI where I achieved the RCDD designation, member of the Construction Specification Institute (CSI), Certified System Designer and Installer by the Fiber Optic Association.

Education

1991 – 1996 Colorado Technical University Colorado Springs, CO

Logistic Systems Management

1990 – 1991 Colorado State University Fort Collins, CO

Computer Information Systems

1983 – 1986 Pikes Peak Community College Colorado Springs, CO

AA - Automotive Technician

**Additional
Certifications**

RCDD, KRONE Certified Installation Technician, Siemon Certified Installation Technician and Designer, AutoCad R14 Level 1 Certification, Certified Fiber Optic Network Designer, and Certified Fiber Optic Network Installer

Skills

Microsoft Windows, Word, Excel, Project, PowerPoint, Visio, Lotus Notes, and AutoCAD. Through practical experience I excel in managerial skills, inventory control, and customer service.

**Community
activities**

Through out my life I have always been involved in Scouting. First as a member where I achieved the rank of Eagle Scout, then as an adult leader.

The professional designation of

RCDD®

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

is awarded to

Robert W. Connell

*by BICSI, a Telecommunications Association, in recognition of having successfully
completed BICSI's registration and examination requirements.*

Issued January 1, 2006

Expires December 31, 2008

*Paul A. De-
President, BICSI*

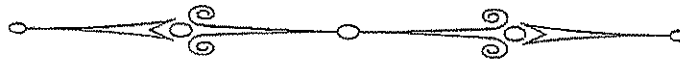
*Don F. De-
Executive Director, BICSI*



The designation of

INFORMATION TRANSPORT SYSTEMS

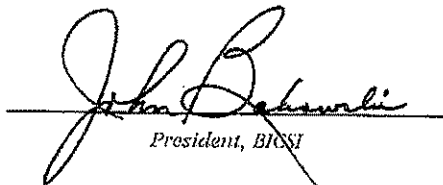
INSTALLER 2



is awarded to

David D Daum

*by BICSI® in recognition of having successfully
completed BICSI's registration and examination requirements.*


President, BICSI

Issued

8/29/2007

Bicsi[®]
advancing information transport systems


Executive Director, BICSI

Expires

8/29/2009

Bicsi
INSTALLER 2

The designation of

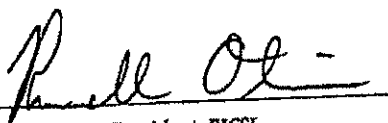
INFORMATION TRANSPORT SYSTEMS

INSTALLER 2

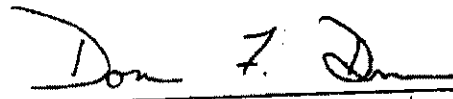
is awarded to

HOBERT L. POWELL

*by BICSI®, A Telecommunications Association,
in recognition of having successfully completed Bicsi's
registration and examination requirements.*



President, BICSI



Executive Director, BICSI

Issued

8/29/2005

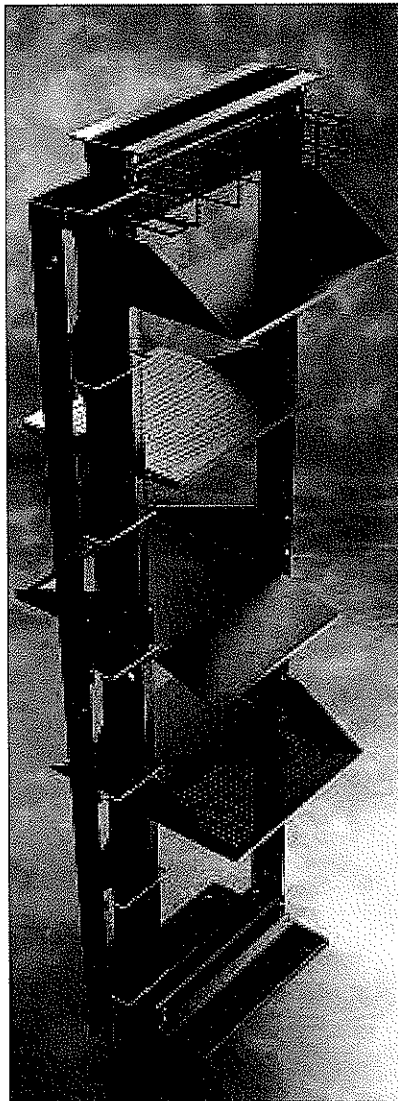
Expires

8/29/2007

Bicsi
advancing information transport systems



DataCom 2-Post Open Frame Rack



(Shown with accessories)

Construction

- Frame is a strong and lightweight aluminum (6063-T6 alloy) extrusion
- Range of heights from 4' to 9' (24U to 58U) to match capacity requirements
- Side rails are tapped on both sides with 12-24UNC threads for quick installation
- EIA Universal 5/8" - 5/8" - 1/2" vertical mounting hole pattern matches industry standards and connects to most competitive racks for easy system expansion
- Full complement of matching components for equipment and cable management
- Packed unassembled in individual cartons; assembly hardware (including twenty 12-24 mounting screws) is furnished for convenient storage and installation
- Can be shipped via FedEx or UPS

Finish

RAL 9005 black polyester powder paint or milled aluminum

Load Rating

Do not exceed the following recommended load ratings.

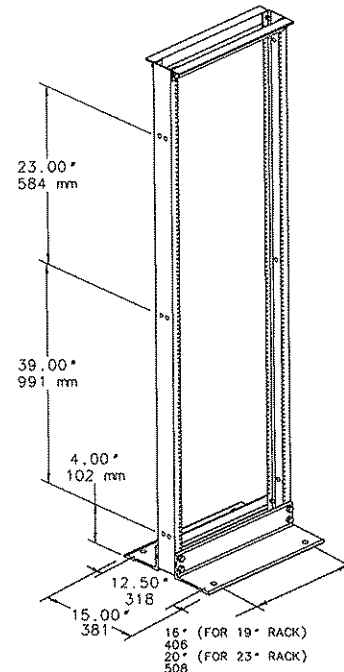
Description	Suggested Load rating	
	lbs	kg
Floor Mount Rack	1000	453.6
One-Sided Solid Shelf	150	68.0
Double-Sided Solid Shelf	300	136.1
One-Sided Vented Shelf	150	68.0
Double-Sided Vented Shelf	300	136.1
Adjustable Vented Shelf	60	27.2
Keyboard/Monitor Shelf	200	90.7

Industry Standards

UL 1863 listed, File No. E230874
cUL CSA22.2 No. 182.4, File No. E230874
EIA 310-D

Accessories

See the chart on the reverse side for additional DataCom accessories.
Adjustable Vented Shelf
Cable Channel
Cable Keepers
Cable Organizers
Cable Trough
Double-Sided Solid Shelf
Double-Sided Vented Shelf
Joining Kit
Mounting Screw Kit
One-Sided Solid Shelf
One-Sided Vented Shelf
Panel Adapters



87557560

Standard Sizes 19" Rack Mount (20.25 inches wide)

Nominal Catalog Number	Finish	Rack Units	Frame Height
EDR19FM24U	Black	24	4 feet
EDR19FM38U	Black	38	6 feet
EDR19FM45U	Black	45	7 feet
EVR19FM45U	Mill	45	7 feet
EDR19FM51U	Black	51	8 feet
EVR19FM51U	Mill	51	8 feet
EDR19FM58U	Black	58	9 feet
EVR19FM58U	Mill	58	9 feet

Standard Sizes 23" Rack Mount (24.25 inches wide)

Nominal Catalog Number	Finish	Rack Units	Frame Height
EDR23FM24U	Black	24	4 feet
EDR23FM38U	Black	38	6 feet
EDR23FM45U	Black	45	7 feet
EVR23FM45U	Mill	45	7 feet
EDR23FM51U	Black	51	8 feet
EVR23FM51U	Mill	51	8 feet

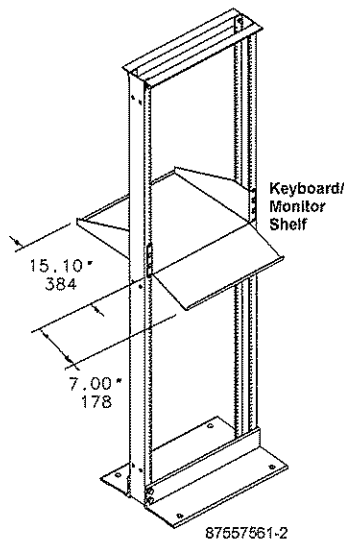
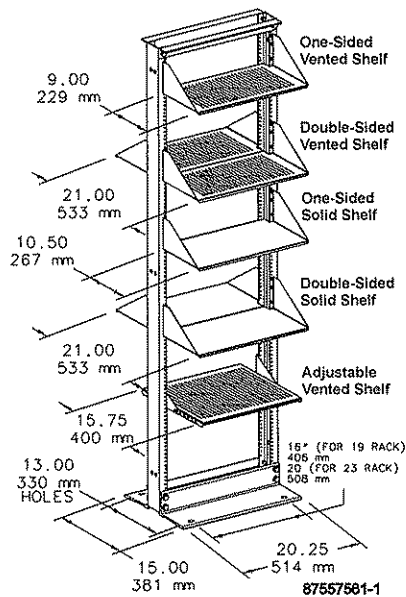
Application

The DataCom 2-Post Open Frame Rack is a key element in a structured cabling system. With models sized to fit either 19" or 23" equipment, this floor mounted unit is particularly well suited for networking and data transmission applications. A broad selection of matching accessory shelves and cable management hardware lets you customize each rack to your specific requirements.

DataCom 2-Post Open Frame Rack



Accessories



For accessory specifications, see the DataCom Catalog.

Description	19 in. Accessories Catalog Number	23 in. Accessories Catalog Number
Shelves		
One-sided Vented Shelf - black painted steel	ESH19V	ESH23V
Double-sided Vented Shelf - black painted steel	ESHDV19	ESHDV23
One-sided Solid Shelf - black painted steel	ESH19S	ESH23S
Double-Sided Solid Shelf - black painted steel	ESHD19	ESHD23
Adjustable Shelf - black painted steel	ESHVA19	ESHVA23
Keyboard/Monitor Shelf - black painted steel	ESH19KBM	ESH23KBM
19" Single-sided Shelf - brushed aluminum	ESHA19	
19" Double-sided Shelf - brushed aluminum	ESHA19	
19" Double-sided Heavy Duty Shelf - brushed aluminum	ESHDHDA19	
19" Pull-out Keyboard Tray with Monitor Shelf - black painted steel	E19SKBM	
19" Pull-out Shelf for Mini Keyboard - black painted steel	P19KBSM	
19" Pivoting Keyboard Shelf with Mouse Tray - black painted steel	P19KBPVT	
Sliding Equipment Shelf	P19SHP68B	P23SHP68B
Sliding Equipment Shelf	P19SHP810B	P23SHP810B
Cable Management		
4 foot Vertical Cable Channel	ECC24U	
6 foot Vertical Cable Channel	ECC38U	
7 foot Vertical Cable Channel	ECC45U	
8 foot Vertical Cable Channel	ECC51U	
9 foot Vertical Cable Channel	ECC58U	
7-foot Double-sided Vertical Cable Channel - black painted steel	ECCDB45U	
7-foot Single-sided Vertical Cable Channel - black painted steel	ECCSB45U	
7-foot Single-sided Vertical Cable Channel - brushed aluminum	ECCSA45U	
7-foot Double-sided Vertical Cable Channel- brushed aluminum	ECCDA45U	
Cable Channel cover - black painted steel	ECCCVRB45U ^a	
Cable Channel Cover - brushed aluminum	ECCCVRA45U ^a	
Cable Keepers 3 Rack Units	ELRCK3U	
Cable Keepers 9 Rack Units	ELRCK9U	
19" Horizontal Cable Manager	ECK19H	
Horizontal and Vertical Cable Organizer	ECK19HV	ECK23HV
Horizontal Cable Manager Cover	ECKCVR19	ECKCVR23
Cable Trough - steel with black finish	ECT19	ECT23
Waterfall Top - steel with black finish	EWFT	
19 in. Rack Mount Power Strips		
20 Amp Surge Protected, 1200 Joule rating, 96,000 Amp Peak Current	A19P20A8S	
20 Amp Surge Protected, 640 Joule rating, 52,000 Amp Peak Current	A19P20A10	
15 Amp, 6 front and 6 rear outlets	A19P156F6R	
Miscellaneous		
Joining Kit - Side to Side	EJ2DR	
Panel Adapters - steel with clear zinc finish - 1 rack unit	ERB1U2319	
Panel Adapters - steel with clear zinc finish - 3 rack units	ERB3U2319	
Panel Adapters - steel with clear zinc finish - 5 rack units	ERB5U2319	
12-24 UNC Screws, silver - package of 20/package of 250	ES1224	ES1224250
12-24 UNC Screws, black - package of 20/package of 250	ES1224B	ES1224250B
Velcro Wrap - Black - 8" or 12"	ECW8B	ECW12B
Velcro Wrap, Red - 8" or 12"	ECW8R	ECW12R
Velcro Wrap, Blue - 8" or 12"	ECW8BL	ECW12BL
Velcro Wrap, Yellow - 8" or 12"	ECW8Y	ECW12Y

^a Fits ECCDB45U, ECCSB45U, ECCSA45U, and ECCDA45U only.

Component Specifications

Part Number
41089-2xP

QuickPort® 2-Port Surface Mount Housing

APPLICATION

Compact housing for 1- or 2-port surface mounting of QuickPort® snap-in modules. Use to support voice/data applications in open office, retrofit or other surface mount environments. (Connectors sold separately.)

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: UL Listed; complies with NEC® Article 800.

PHYSICAL SPECIFICATIONS

Dimensions: 2.52"H x 2.22"W x 1.10"D
Capacity: 1 or 2 snap-in modules
Materials: High-impact, fire-retardant plastic rated UL 94V-0
Mounting: Use screws (included), adhesive tape (included), or magnet (PN# 41030-SMJ)

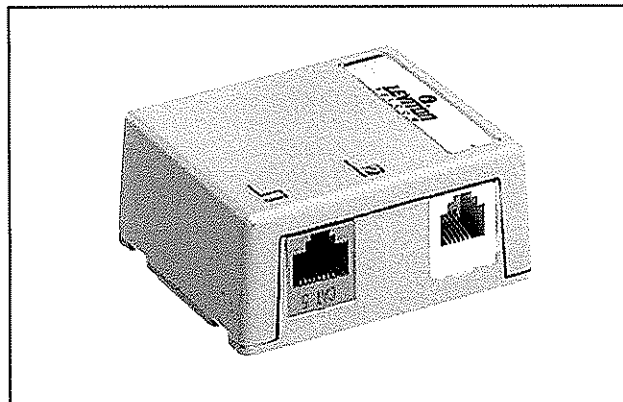
DESIGN CONSIDERATIONS

- Very small footprint.
- Can be used for 1- and 2-port applications.
- Specify whether the product will mount with adhesive tape or screws or magnet.
- Specify side or rear cable entry. (Rear entry is recommended to help meet cable bend radius standards).
- A blank insert is included to allow for future expansion.
- Specify port identification method (colored modules, designation labels, and custom silkscreening are available). To ID ports, use different colored connectors for each application (13 TIA/EIA-606 compatible colors are available), or Leviton's pre-printed Port Designation Labels.
- Security screw option.

UNIQUE FEATURES

- Very small footprint/profile.
- The housing base functions as a punchdown platform for stabilizing connectors during termination.
- Includes a blank to allow for use as a 1- or 2-port device, and allow for future expansion when only one port is initially used.
- Security screw option.
- Four color choices: ivory, white, grey and black.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



INSTALLATION NOTES

- To install connectors: snap into base and terminate. Attach base to desired surface (using screws or tape), and snap on cover.
- The housing base doubles as a punchdown platform for terminating connectors.
- If desired, connectors can be pre-terminated prior to snapping into housing.
- Detailed installation instructions are included in the carton.

WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

Surface mount telecommunications outlet housings shall be a high-density low profile design with (2) two field-configurable ports, snap-lock cover, and cable knockouts on back. Housing cover shall have raceway knockouts for top and bottom entry. Base shall include Tie-wrap anchor points at all cable entrances. The housing shall be mountable with screws, tape or a single magnet. The cover shall provide the option of securing it to the base with a screw that is hidden under the outlet identification window. Colors and configurations to be specified per schedule on plan. Must be constructed of high-impact self-extinguishing plastic rated UL 94V-0, and be UL Listed and compliant with FCC Part 68 and TIA-568-B specifications.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

2222 - 222nd St. SE • Bothell, WA 98021 USA
Tel: 1-800-722-2082 / 1-425-485-4288 • Fax: 1-425-483-5270 • Int'l Fax: 1-425-485-9170 • GSA Schedule Available



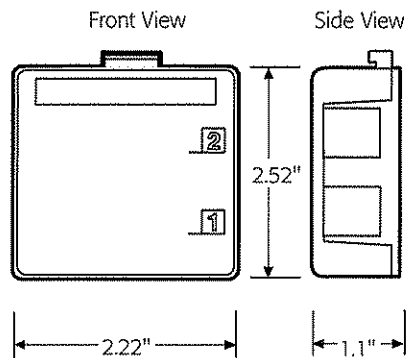
QuickPort® 2-Port Surface Mount Housing

QuickPort® 2-Port Surface Mount Housing

Part Number
41089-2xP

DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)



PART NUMBER

Description	Part No.
2-Port Surface Mount Housing (with 1 blank)	41089-2*P
Magnets	41030-SMJ

* = color: Ivory (I), White (W), Grey (G), Black (E)



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.



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Component Specifications

Part Numbers
5Rx30-xxx
5Px30-xxx

Opt-X® 1000 Rack-Mount Enclosures 1RU

APPLICATION

For rack mount fiber applications requiring high-density patching, cross connect, and/or splicing of up to 24 singlemode or multimode fibers while utilizing a minimum of rack space.

FEATURES

- Adjustable dual-ring fiber management
- Self-healing, self-adhesive grommet material at all cable entry/exit points
- Removable front and rear doors allow access to vertical cable passing through the enclosure, at both front and rear of enclosure
- Slide-rail option allows easy installation and maintenance
- 19" rack mount only

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: TIA/EIA-568-B, -606, and -607. UL Listed. CSA Certified.

PHYSICAL SPECIFICATIONS

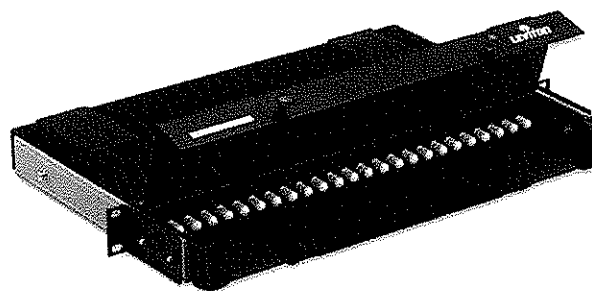
Dimensions: 1.75"H x 19.0"W x 12.0"D

Materials

Enclosures:	18 gauge steel, powder coated black with white Leviton logo
Fiber Management Rings:	Self-extinguishing plastic-rated UL 94V-0
Grommet material:	Ensolute™
Bulkheads:	See second page

DESIGN CONSIDERATIONS

- Enclosures are available with or without adapters in them. Be sure to specify the desired configuration.
- Enclosures are available with one of three single-piece bulkhead options, SC, ST* or an empty bulkhead with space for any three Opt-X Adapter Plates.
- Specify the slide-rail option if desired for easier access and maintenance when other items will be mounted on the rack above the enclosure.
- Slide Rail Kit available for 19" rack only.
- Specify if splicing is to be used, and if so, what type.
- Recommend that enclosures be arranged to allow future growth.
- Designation labeling allows identification of port assignments.
- Enclosures are capable of storing up to 3 meters of 900 micron tight buffered fiber per connector.
- Lid option: Metal only.
- Includes hardware kit with Hook and Loop ties, curly locks, screws, a caution label, and cable ties.
- Accepts up to three splice trays.
- Fiber management rings are removable to help accommodate larger quantities of slack storage at the rear of the tray.



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

TYPICAL SPECIFICATION

The enclosure shall accommodate fiber adapters in 1.75" (1RU) space (1 rack space). Adapters shall be pre-installed on bulkheads or mounted on metal plates, and attached to the empty bulkhead using plastic plungers. The adapter plates shall have a port designation number near the adapter. The enclosure shall have removable front and rear doors. There shall be vertical and horizontal cable entrance ports in the top, bottom and sides of the enclosure, both front and rear. All cable entrance ports are designed with a strain relief post with a slot capable of holding a tie wrap. The enclosure shall provide strain relief in the form of a grounding lug and multiple tie wrap points. The enclosure will have mounting ears that allow mounting on 19" or 23" rack in either a mid- or flush-mount configuration. The enclosure shall have dual, adjustable plastic cable management rings made of high impact UL 94V-0 rated self-extinguishing plastic. The enclosure shall be capable of having a slide feature attached to it to allow the entire box to be moved in and out of the rack. A port identification label/card shall be provided. The enclosure shall be made of 18 gauge steel, powder coated black.

ELECTRONIC FILES

For CAD files, Typical Specs, or Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT), log on to www.levitonvoicedata.com.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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Opt-X 1000 Rack-Mount Enclosures

Opt-X 1000 Rack-Mount Enclosures

1RU

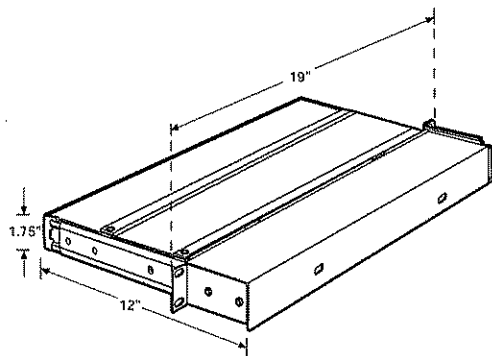
Part Numbers

5Rx30-xxx

5Px30-xxx

DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)



FIBER DENSITY CHART - RACK MOUNT OPTIONS

	6-pack ST or FC	8-pack ST or FC	3-pack Duplex SC	6-pack SC	6-pack MT-RJ	12-pack MT-RJ	6-pack LC	6-pack Quad LC
1RU Holds up to three Adapter Plates	Up to 18 fibers	Up to 24 fibers	Up to 18 fibers	Up to 36 fibers	Up to 36 fibers	Up to 72 fibers	Up to 36 fibers	Up to 72 fibers

PART NUMBERS

Description	w/Rails	w/o Rails	Internal Configuration
72 Fiber, empty (accepts 3 adapter plates, sold separately)	5P130-00N	5R130-00N	
24 Fiber, unloaded, punched for duplex SC adapters	5P330-OHA	5R330-OHA	
24 Fiber, loaded w/3 duplex SC adapters	5P030-OHB	5R030-OHB	
24 Fiber, loaded w/6 duplex SC adapters	5P230-OHB	5R230-OHB	
24 Fiber, loaded w/12 duplex SC adapters	5P330-OHB	5R330-OHB	
24 Fiber, unloaded, punched for ST adapters	5P330-OAA	5R330-OAA	
24 Fiber, loaded w/6 ST adapters	5P030-OAB	5R030-OAB	
24 Fiber, loaded w/12 ST adapters	5P230-OAB	5R230-OAB	
24 Fiber, loaded w/24 ST adapters	5P330-OAB	5R330-OAB	

ACCESSORIES

Description	Part No.
3.5" Metal Door	5D000-3RM
3.5" Poly Door	5D000-3RP
Lock and Key	5L000-LOK
Additional Fiber Rings (package of 2)	5R100-OFR
Slide Rail Kit	5S100-SLM
Mini-Splice Tray, 4.00" x 7.06" x 0.25" (w/two 6-position Heat Shrink Holders)	T47HS-P06
Mini-Splice Tray, Black, 4.00" x 7.06" x 0.25" (w/two 6-position Heat Shrink Foam Holders)	T47SL-F06
Mini-Splice Tray, 4.00" x 7.06" x 0.25" (w/two 6-position Heat Shrink Foam Holders)	T47SL-F12
4" Standard Splice Tray, 4.00" x 11.75" x 0.25" (w/two 6-Position Heat Shrink LGX Holders)	T4LAT-F06
4" High Density Splice Tray, 4.00" x 11.75" x 0.25" (w/four 6-Position Heat Shrink Holders)	T4LHS-P12
4" High Density Splice Tray, 4.00" x 11.75" x 0.25" (w/four 6-Position Heat Shrink LGX Footprint Holders)	T4LAT-F12
4" High Density Splice Tray, 4.00" x 11.75" x 0.25" (w/four 6-Position Heat Shrink Foam Holders)	T4LHS-F12



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.



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Component Specifications

Part Numbers
41D10-HCM 41D1R-HCM
41A10-HCM
.....

110-Style Crossconnect Products Wall Rack-Mount Horizontal Cord Managers

APPLICATION

Place in between wall-mount 110 wiring bases or rack-mount wiring panels for routing, organizing and managing patch cords.

STANDARDS COMPLIANCE

Complies with TIA/EIA-568-B and TIA/EIA-606. UL listed.

PHYSICAL SPECIFICATIONS

Dimensions: Without legs: 1.73"H x 8.46"W x 2.52"D
With legs: 1.8"H x 10.72"W x 4.37"D
Rack-Mount: 1.73"H x 19"W x 2.87"D
Material: Made of fire-retardant plastic rated UL 94V-0.
Panel backs plates are made of black painted 16 gauge steel.

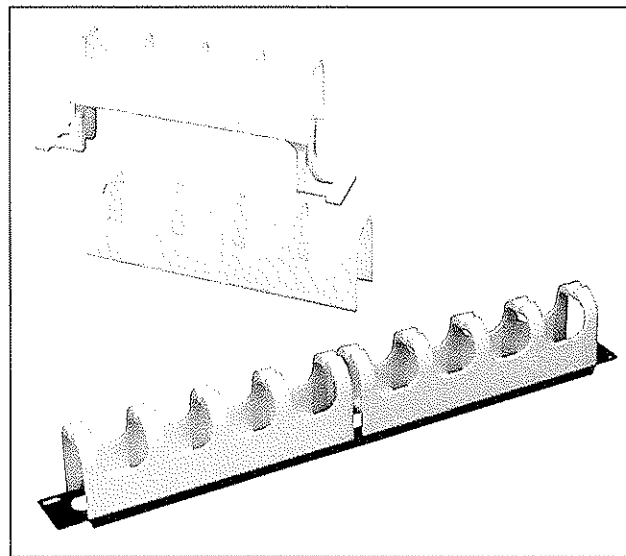
DESIGN CONSIDERATIONS

- Use where space limitations and low cost are a concern.
- Available with or without standoff legs.
- Mount directly on wall or backboard, or onto 300 pair mounting-frame basic or extension units.
- Position cord managers between 110 wiring bases.
- Mount on 19" distribution frame on hinged wall-mount bracket.

WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The horizontal 110 cord managers shall mount to a wall or backboard, or onto 300 pair mounting-frame basic or extension units, providing the capability to organize and contain patch cords. The cord managers shall comply with TIA/EIA-568-B and TIA/EIA-606 requirements, be UL listed, and be made of fire-retardant plastic rated UL 94V-0.

110-Style Crossconnect Products



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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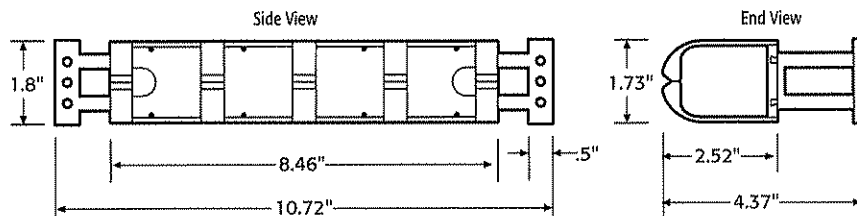
110 Style Crossconnect Products

Part Numbers
41D10-HCM 41D1R-HCM
41A10-HCM

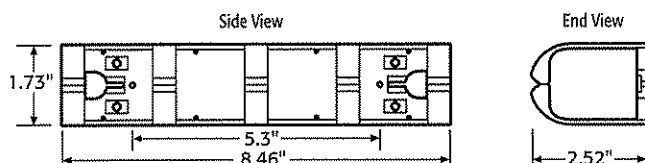
DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD files
 (.DXF, .DWG, MS-DOS.EPS) on disk

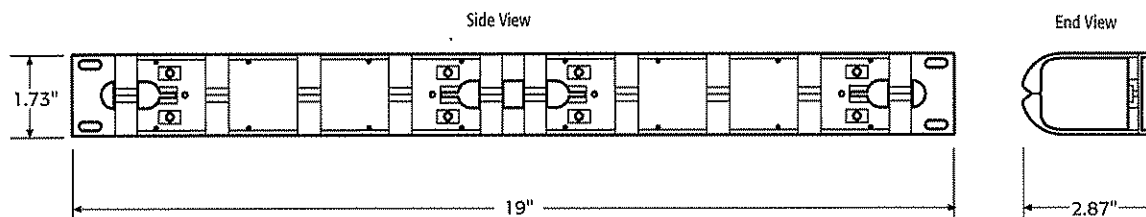
Horizontal Cord Manager with legs 41A10-HCM



Horizontal Cord Manager without legs 41D10-HCM



Rack-Mount Horizontal Manager 41D1R-HCM



PART NUMBERS

Description	Part Number
Horizontal Cord Manager without legs	41D10-HCM
Horizontal Cord Manager with legs	41A10-HCM
Rack Mount Horizontal Manager	41D1R-HCM



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Numbers
41DWX-xxx 41NB2-xxx
41AB2-xxx 41AWX-xxx
41DB1-xxx 41DR2-xxx
..... 41DBR-xxx

110 Style Crossconnect Product Wall and Rack Mount Wiring Bases and Kits

APPLICATION

Used in building entrance facilities, telecommunications closets and equipment rooms to provide fixed cross-connections for voice, security and data applications—including high megabit applications when used with Category 5e rated cabling. Wall version mounts to walls or backboards in 50, 100 or 300 pair densities. Rack version mounts on 19" distribution frames or hinged wall-mount brackets

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: all components are UL listed; comply with TIA/EIA-568-B.2 requirements; and meet FCC Part 68.

PHYSICAL SPECIFICATIONS

Wall Mount-

Dimensions:

50 Pair Wiring Base (w/o legs):
1.66"H x 8.51"W x 1.42"D
50 Pair Wiring Base (w/ legs):
1.81"H x 10.7"W x 3.3"D
100 Pair Wiring Base (w/o legs):
3.44"H x 8.51"W x 1.42"D
100 Pair Wiring Base (w/ legs):
3.62"H x 10.7"W x 3.3"D
300 Pair Wiring Base (w/ legs):
10.83"H x 10.7"W x 3.3"D

Materials:

110 wiring bases are made of fire-retardant plastic rated UL 94V-0; C-4 and C-5 connector blocks are made of fire-retardant plastic rated UL 94V-0 with solder plated IDC's.

Rack Mount-

Dimensions:

100 Pair Panel: 1.73"H x 19"W x 1.75"D
200 Pair Panel: 3.46"H x 19"W x 1.75"D
300 Pair Panel: 5.23"H x 19"W x 1.75"D

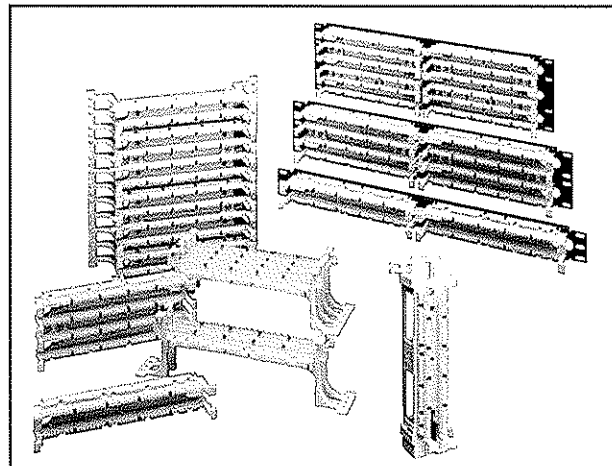
Material:

110 wiring bases are made of fire-retardant plastic rated UL 94V-0; C-4 and C-5 connector blocks are made of fire-retardant plastic rated UL 94V-0 with solder plated IDC's; panel back plates are made of painted black 16 gauge steel.

DESIGN CONSIDERATIONS

- Use where space limitations and low cost are factors.
- 110 wiring bases are available with or without standoff legs. Legs can also be purchased separately (PN# 41OL2-xxx).

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



- Kitted versions include 50, 100 or 300 pair bases with legs, labels, label holders, C-4 or C-5 connector blocks.
- Port ID option: Use the label strips and holders provided with the 300-pair wiring base, and Kit versions of these products.
- Mount on wall or backboard.
- Route cable bundles either adjacent to wiring bases, or underneath units with legs.
- Route individually marked cables from both left and right sides.
- 89D mounting bracket is sold separately.

WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The cross-connect shall be Category 5e 110-style wiring bases, mountable to wall or backboard to provide 110 termination capable of supporting voice, security, and Category 5e data applications, including high megabit and shared-sheath applications when used with Category 5e rated cabling. The 110 rack-mount panels shall mount to a 19" distribution frame or hinged wall mount bracket. The components shall be UL listed and TIA/EIA-568-B compliant. Bases shall support 50, 100 or 300 pair densities with provision for TIA/EIA-606 compliant labeling. Plastic bases and blocks shall be made of fire-retardant plastic rated UL 94V-0.

110 Style Crossconnect Product



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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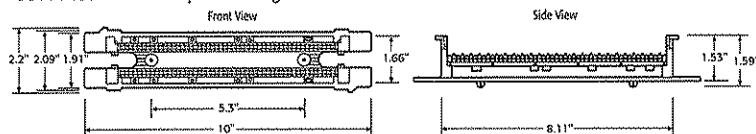
110 Style Crossconnect Products

Part Numbers
41DWX-xxx 41NB2-xxx
41AB2-xxx 41AWX-xxx
41DB1-xxx 41DR2-xxx
41DBR-xxx

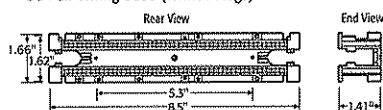
DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD files
 (.DXF, .DWG, MS-DOS.EPS) on disk

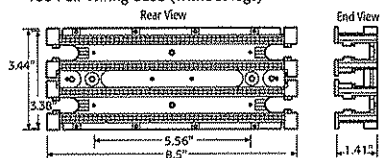
50 Pair 89D Bracket Compatible Wiring Base



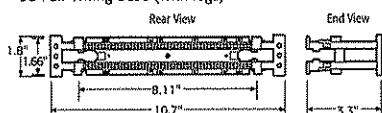
50 Pair Wiring Base (without legs)



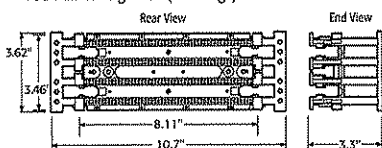
100 Pair Wiring Base (without legs)



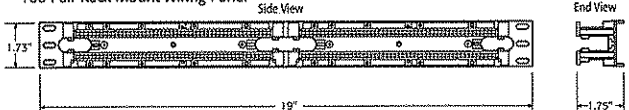
50 Pair Wiring Base (with legs)



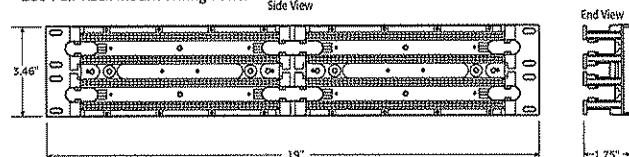
100 Pair Wiring Base (with legs)



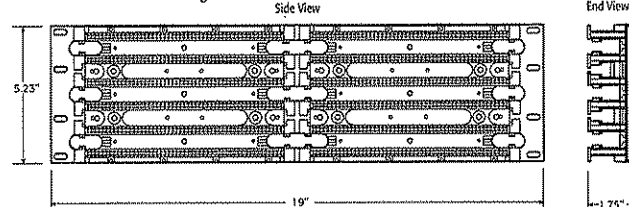
100 Pair Rack Mount Wiring Panel



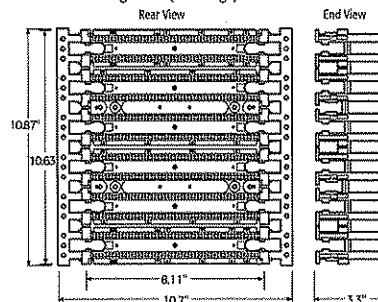
200 Pair Rack Mount Wiring Panel



300 Pair Rack Mount Wiring Panel



300 Pair Wiring Base (with legs)



PART NUMBERS

Description	Part No.
50 Pair Wall Mount Wiring Base without legs	41DW1-50
100 Pair Wall Mount Wiring Base without legs	41DW2-100
50 Pair Wall Mount Wiring Base with legs	41AW1-50
100 Pair Wall Mount Wiring Base with legs	41AW2-100
300 Pair Wall Mount Wiring Base with legs	41AW2-300
100 Pair Wall Mount Wiring Base kit w/C4 clips	41AB2-1F4
300 Pair Wall Mount Wiring Base Kit w/C4 clips	41AB2-3F4
100 Pair Wall Mount Wiring Base kit w/C5 clips	41AB2-1F5
300 Pair Wall Mount Wiring Base Kit w/C5 clips	41AB2-3F5
100 Pair Wall Mount Wiring Base Kit without legs w/C-4 clips	41NB2-1F4
100 Pair Wall Mount Wiring Base Kit without legs w/C-4 clips	41NB2-1F5
100 Pair Rack Mount Wiring Panel	41DR2-100
200 Pair Rack Mount Wiring Panel	41DR2-200
300 Pair Rack Mount Wiring Panel	41DR2-300
100 Pair Rack Mount Wiring Panel Kit w/C4 clips	41DBR-1F4
200 Pair Rack Mount Wiring Panel Kit w/C4 clips	41DBR-2F4
300 Pair Rack Mount Wiring Panel Kit w/C4 clips	41DBR-3F4
100 Pair Rack Mount Wiring Panel Kit w/C5 clips	41DBR-1F5
200 Pair Rack Mount Wiring Panel Kit w/C5 clips	41DBR-2F5
300 Pair Rack Mount Wiring Panel Kit w/C5 clips	41DBR-3F5
50 Pair 89D Bracket Compatible Wiring Base UNIT (89D Bracket sold separately)	41DW1-589
50 Pair 89D Bracket Compatible Wiring Base KIT with C-4/C-5 clips (89D Bracket sold separately)	41DB1-5FT
89D Bracket	40089-D



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
 Spec sheets and updates are also available at www.levitonvoicedata.com.

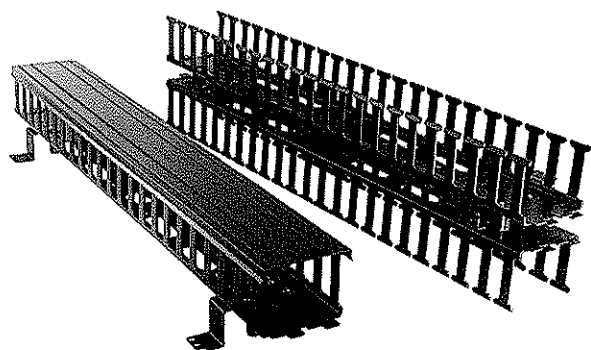


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Versi-Duct® Vertical Cable Management System

APPLICATION

A vertical cable management system in a slotted duct configuration designed to route cable and mount onto an industry standard equipment rack. Two vertical 40" ducts, or one 80" duct (comprised of two 40" ducts) span the full length of a standard 7-foot equipment rack. The Horizontal and Vertical Slotted Ducts come with cable concealing covers and an assortment of accessories.



SPECIFICATION

A vertical cable management system in a slotted duct configuration for copper and fiber cable systems. The management system shall be cULus listed, PVC rated for 94V-0, ABS rated for UL94HB, and compliant with ANSI/TIA/EIA 568-B standards. It shall mount onto an industry standard 19" equipment rack. The management system shall offer an assortment of accessories including a bend-radius compliant cable router to transition cable from a horizontal to vertical slotted duct.

FEATURES

- Versatile solution for fiber/copper cable organization and management
- Front only and front/rear configurations
- Cable concealing covers
- Mount on standard equipment racks with top, bottom, and side cable entry
- Finger alignment with rack spacing

DESIGN CONSIDERATIONS

- Use on side of rack to route, protect and manage fiber or copper cable
- Bend-Radius Compliant Cable Router complies with ANSI/TIA/EIA standards, ensuring 1.18" bend radius

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: cULus Listed; complies with TIA/EIA-568-B; and meets FCC Part 68

PHYSICAL SPECIFICATIONS

Dimensions:	See second page
Materials (channel):	ABS rated for UL94HB
Materials (cover):	PVC rated for UL94V-0

ACCESSORIES

- **Cable Retainer** - Mounts on the duct fingers. Cable Retainer is adjustable to slide along the duct finger and includes break-away detail to accommodate all duct sizes.
- **Mounting Bracket Kit** - Used to attach a vertical duct to an adjacent equipment rack. Each kit comes with #8 screws.
- **Bend-Radius Compliant Cable Router** - Routes copper or fiber cable from inside the horizontal duct to the vertical duct. Maintains 1.18" bend-radius minimum.
- **Cable Retainer** - Mounts on the duct fingers. Each Cable Retainer is adjustable to slide along the duct finger and includes break-away detail to accommodate all duct sizes.
- **Slack Loop Storage Organizer** - Stores slack cable and maintains a minimum of 1.18" bend-radius. Designed to be mounted on the duct fingers and it can be adjusted to a variety of slack loop sizes.
- **Duct Cover Hinge** - Designed to easily open and close duct cover for increased protection and easy access.

Accessories sold separately

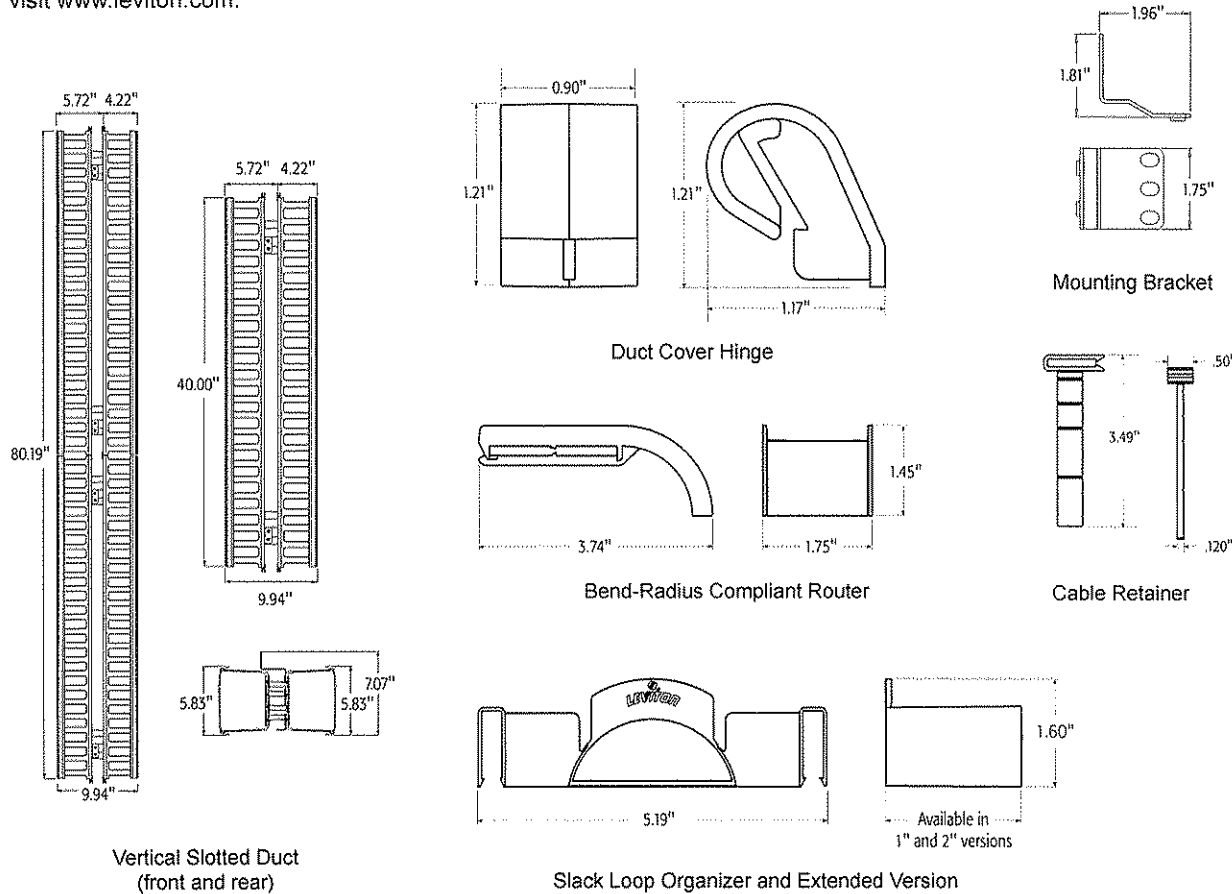
WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.leviton.com.

4940L-VFxx 4980L-VFxx 49265-xxx

ELECTRONIC FILES

For CAD files, Typical specs, or Dimensional Line Art. (.DXF, .DWG, MS-DOS.eps or .TXT), visit www.leviton.com.



4940L-VFx 4980L-VFx 49265-xxx

PART NUMBERS

Description	Part No.
Versi-Duct Vertical Slotted Duct - 4x5 rear and 4x5 front (front and rear) 40"H	4940L-VFR
Versi-Duct Vertical Slotted Duct - 4x5 (front only) 40"H	4940L-VFO
Versi-Duct Vertical Slotted Duct - 4x5 rear and 4x5 front (front and rear) 80"H	4980L-VFR
Versi-Duct Vertical Slotted Duct 4x5 (front only) 80"H	4980L-VFO
Versi-Duct Cable Retainer	49265-WR1
Versi-Duct Slack Loop Organizer	49265-SL1
Versi-Duct Slack Loop Organizer (Extended)	49265-SL2
Versi-Duct Mounting Bracket	49265-BRK
Versi-Duct Duct Cover Hinge	49265-HNG



QuickPort® Single-Gang Wallplates

APPLICATION

Field-configurable wallplates accept QuickPort® snap-in modules to support multimedia applications with 1, 2, 3, 4 or 6 ports. Use where a one-piece, single-gang, economical flush-mount housing is desired. Five color choices, with color-matched screws.

FEATURES

- Color-matched wallplate screws
- Five color choices: ivory, white, grey, black and almond
- Fits within minimum rectangular NEMA openings
- Compatible with all individual QuickPort modules
- Individual-port configurability allows specification flexibility
- Narrow module width allows high port density in a small area

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: UL Listed; CSA certified; complies with TIA/EIA-568-B.

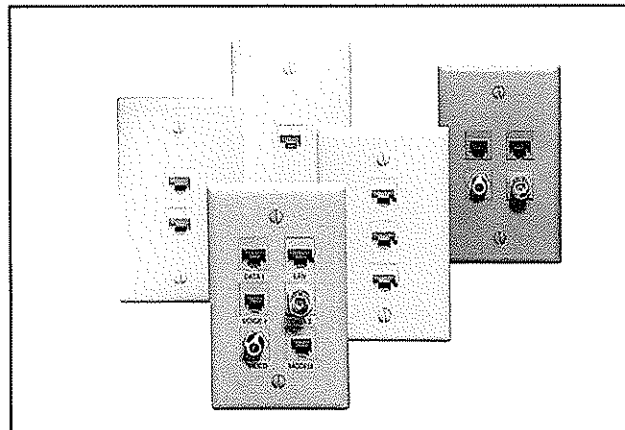
PHYSICAL SPECIFICATIONS

Dimensions:	4.5"H x 2.75"W x .2"D (in-wall depth 1.2" w/ connectors installed)
Capacity:	Available in 1-, 2-, 3-, 4- or 6-port versions
Materials:	High-impact, fire-retardant plastic rated UL 94V-0
Mounting:	Color matched screws

DESIGN CONSIDERATIONS

- Fits single-gang backboxes, or four-square boxes with appropriate user-provided reducer.
- Put blanks in unused ports for future expansion.
- Specify port identification method (colored modules, designation labels, and custom silkscreening available). To ID ports, use different colored connectors for each application (full selection of TIA/EIA-606 compatible colors—13 available), or Leviton's pre-printed Port Designation Labels.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The wallplate housing shall be a one-piece, single-gang flush mount style that fits standard NEMA openings, or four-square boxes with reducer. It should provide 1-, 2-, 3-, 4- or 6-ports. Must be able to accept all Leviton QuickPort modules. It must be made of high-impact, fire-retardant plastic rated UL 94V-0, and be UL Listed, CSA certified and compliant with TIA/EIA-568-B specifications.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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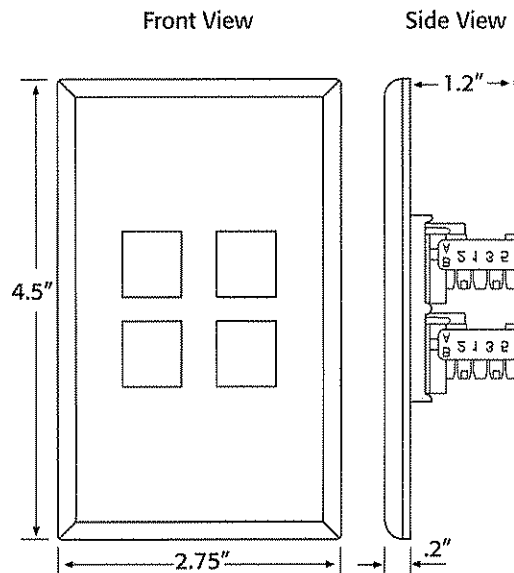


QuickPort® Single-Gang Wallplates

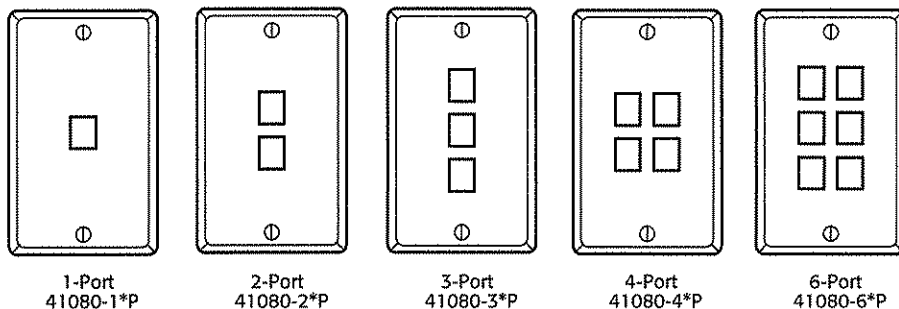
Part Number
41080-xxP

DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)



Note: QuickPort snap-in modules (connectors and bulkhead connectors and couplings) are sold separately.
Please refer to the QuickPort module spec sheets for ordering information.



PART NUMBERS

Description	Part No.
QuickPort Single-Gang 1-Port Wallplate	41080-1*P
QuickPort Single-Gang 2-Port Wallplate	41080-2*P
QuickPort Single-Gang 3-Port Wallplate	41080-3*P
QuickPort Single-Gang 4-Port Wallplate	41080-4*P
QuickPort Single-Gang 6-Port Wallplate	41080-6*P

* = Color Choices: Ivory (I), White (W), Grey (G), Black (E), Almond (A)
Special order color: Brown (B)



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Number
41084-xxx

QuickPort® Bulkhead Modules & Adapters

APPLICATION

Voice/data/video connectivity for workstation cabling termination on coaxial or multimode fiber cable. QuickPort® bulkhead modules snap into any housing with the QuickPort name—flush and surface mount outlets; Multimedia Outlet System (with adapter); Decora® Inserts; patch panels; and patch blocks.

FEATURES

- Female-female bulkhead adapters
- Twist-on feature for easy termination
- FC and ST adapter are single-mode/multimode available in zirconia or phosphor bronze sleeves

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: BNC and F-Type Bulkhead Modules are cULus Listed.

PHYSICAL SPECIFICATIONS

Dimensions

F-Type Bulkhead:	.659"H X .600"W X 1.10"D
BNC Bulkhead:	.659"H X .600"W X 1.40"D
ST Fiber Adapter:	.659"H X .600"W X 1.30"D
FC Fiber Adapter:	.830"H X .640"W X 1.01"D
Blank Module:	.644"H X .563"W X .790"D

Materials

Snap-in module bodies are high-impact, fire-retardant plastic rated UL 94V-0.

ST® Adapter

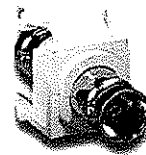
- Single-mode/multimode zirconia sleeve
- Single-mode/multimode phosphor bronze sleeve

FC Adapter

- Simplex single-mode/multimode zirconia sleeve
- Simplex single-mode/multimode phosphor bronze sleeve

DESIGN CONSIDERATIONS

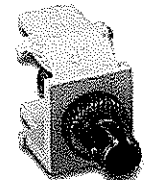
- Configure one adapter per fiber.
- F-type connector works for both RG-6 and RG-59 applications.
- QuickPort bulkhead modules snap into any housing with the QuickPort name: flush and surface mount outlets; Multimedia Outlet System (with adapter); patch panel; and patch blocks.
- Check clearance behind proposed location of bulkhead module, to ensure space for proper bend-radius.
- Bulkhead modules are available in four colors (ivory, white, almond, grey, and black) to match the housings or provide unique color-coding for port I.D.



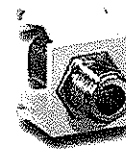
BNC Bulkhead Module



FC Fiber Adapter



ST® Fiber Adapter



F-Type Bulkhead Module



Blank Module

WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.levitonvoicedata.com/ccs/warranty.aspx

TYPICAL SPECIFICATION

The modules for coaxial and fiber optic cable shall be individual snap-in style female-to-female bulkhead adapters, and shall fit all other installed telecommunications wallplates, outlets and field-configurable patch panels and patch blocks. Bulkhead modules shall be available in four colors (ivory, white, grey and black) to match the housings or provide unique color-coding for port I.D. Modules shall be UL listed. All plastics used in construction of the module bodies shall be fire-retardant with a UL flammability rating of 94V-0. The ST® and Simplex FC adapters shall be single-mode/multimode available with zirconia or phosphor bronze sleeves.

ELECTRONIC FILES

For CAD files, Typical Specs, or Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT), visit www.levitonvoicedata.com.



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Spec sheets and updates are also available at www.levitonvoicedata.com.

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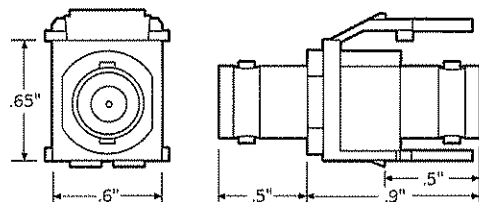
LEVITON®
Building a Connected World

QuickPort® Bulkhead Modules & Adapters

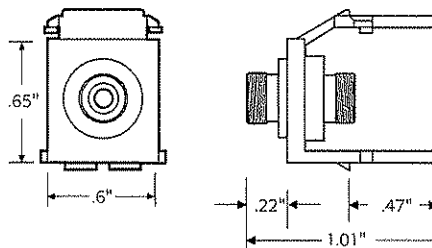
QuickPort® Bulkhead Modules & Adapters

Part Number
41084-xxx

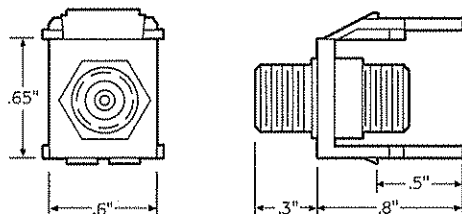
BNC Bulkhead Module



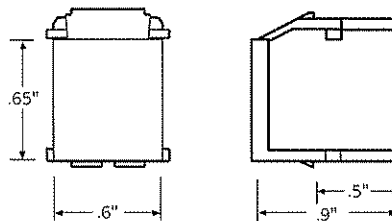
Simplex FC QuickPort Adapter



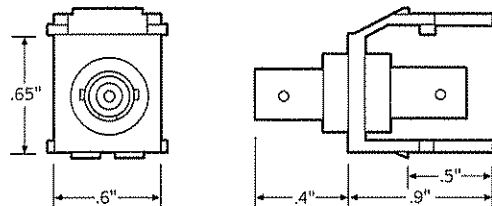
F-Type Connector



Blank Module



ST Fiber Optic Adapter



PART NUMBERS

Description	Part No.
BNC Bulkhead Module	41084-BxF
F-Type Bulkhead Module	41084-PxF
ST QuickPort Fiber Optic Adapter, SM/MM, Phosphor Bronze Sleeve	41084-SxF
ST QuickPort Fiber Optic Adapter, SM/MM, Zirconia Sleeve	41084-SxZ
Simplex FC QuickPort, SM/MM, Phosphor Bronze Sleeve	41084-PxP
Simplex FC QuickPort, SM/MM, Zirconia Sleeve	41084-PxZ
Blank Module	41084-BxB

* = Color Choices: Ivory (I), White (W), Almond (A), Grey (G), Black (E);
BNC, F-Type and Blank Modules also available in Light Almond (T)

For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.



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QuickPort® Bulkhead Modules & Adapters

APPLICATION

Voice/data/video connectivity for workstation cabling termination on coaxial or multimode fiber cable. QuickPort® bulkhead modules snap into any housing with the QuickPort name-flush and surface mount outlets; Multimedia Outlet System (with adapter); Decora® Inserts; patch panels; and patch blocks.

FEATURES

- Female-female bulkhead adapters.
- Twist-on feature for easy termination.
- FC and ST adapter are singlemode/multimode available in zirconia or phosphor bronze sleeves.

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: BNC and F-Type Bulkhead Modules are cULus Listed.

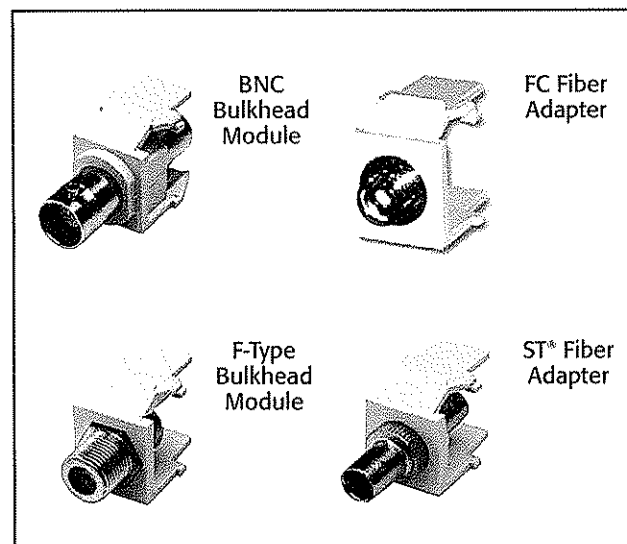
PHYSICAL SPECIFICATIONS

Dimensions:	F-Type Bulkhead: .659"H X .600"W X 1.1"D
	BNC Bulkhead: .659"H X .600"W X 1.4"D
	ST Fiber Adapter: .659"H X .600"W X 1.3"D
	FC Fiber Adapter: .83"H X .64"W X 1.01"D
Materials:	Snap-in module bodies are high-impact, fire-retardant plastic rated UL 94V-0.
ST® Adapter:	Singlemode/multimode zirconia sleeve. Singlemode/multimode phosphor bronze sleeve.
FC Adapter:	Simplex singlemode/multimode zirconia sleeve. Simplex singlemode/multimode phosphor bronze sleeve.

DESIGN CONSIDERATIONS

- Configure one adapter per fiber.
- F-type connector works for both RG-6 and RG-59 applications.
- QuickPort bulkhead modules snap into any housing with the QuickPort name: flush and surface mount outlets; Multimedia Outlet System (with adapter); patch panel; and patch blocks.
- Check clearance behind proposed location of bulkhead module, to ensure space for proper bend-radius.
- Bulkhead modules are available in four colors (ivory, white, almond, grey and black) to match the housings or provide unique color-coding for port I.D.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The modules for coaxial and fiber optic cable shall be individual snap-in style female-to-female bulkhead adapters, and shall fit all other installed telecommunications wallplates, outlets and field-configurable patch panels and patch blocks. Bulkhead modules shall be available in four colors (ivory, white, grey and black) to match the housings or provide unique color-coding for port I.D. Modules shall be UL listed. All plastics used in construction of the module bodies shall be fire-retardant with a UL flammability rating of 94V-0. The ST® and Simplex FC adapters shall be singlemode/multimode available with zirconia or phosphor bronze sleeves.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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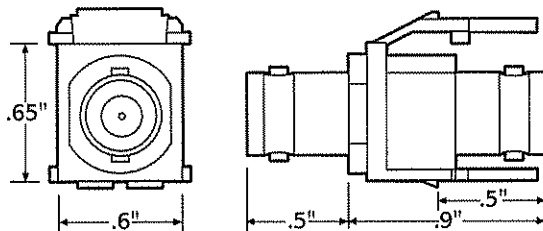
QuickPort® Bulkhead Modules & Adapters

Part Number
41084-xxx

DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)

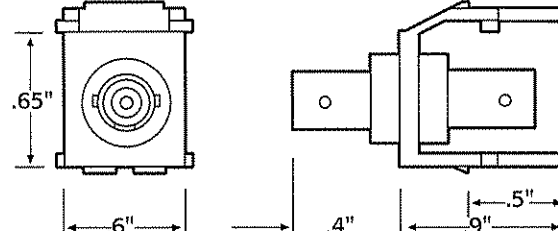
BNC Bulkhead Module



Front View

Side View

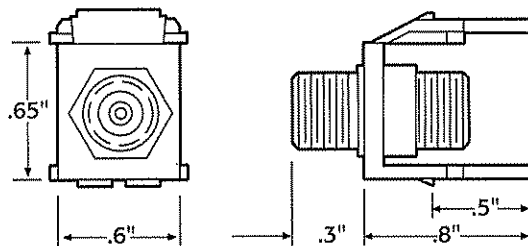
ST Fiber Optic Adapter



Front View

Side View

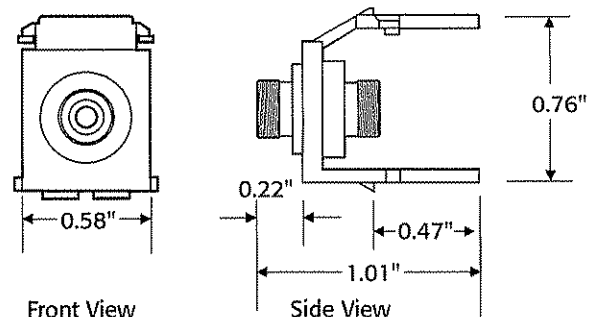
F-Type Connector



Front View

Side View

Simplex FC QuickPort Adapter



Front View

Side View

PART NUMBERS

Description	Part No.
BNC Bulkhead Module	41084-B*F
F-Type Bulkhead Module	41084-F*F
ST QuickPort Fiber Optic Adapter, SM/MM, Phosphor Bronze Sleeve	41084-S*F
ST QuickPort Fiber Optic Adapter, SM/MM, Zirconia Sleeve	41084-S*Z
Simplex FC QuickPort, SM/MM, Phosphor Bronze Sleeve	41084-F*P
Simplex FC QuickPort, SM/MM, Zirconia Sleeve	41084-F*Z

* = Color Choices: Ivory (I), White (W), Almond (A), Grey (G), Black (E)

For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Numbers
49103-IDC
49104-xxx
49105-IDC

110-Style Crossconnect Products 110 Connector Blocks

APPLICATION

Use with 110 wiring bases to provide a gas-tight IDC connection.

STANDARDS COMPLIANCE

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

PHYSICAL SPECIFICATIONS

Dimensions: C-3: .926"H x .090"W x .3"D
C-4: .926"H x 1.20"W x .3"D
C-5: .926"H x 1.50"W x .3"D

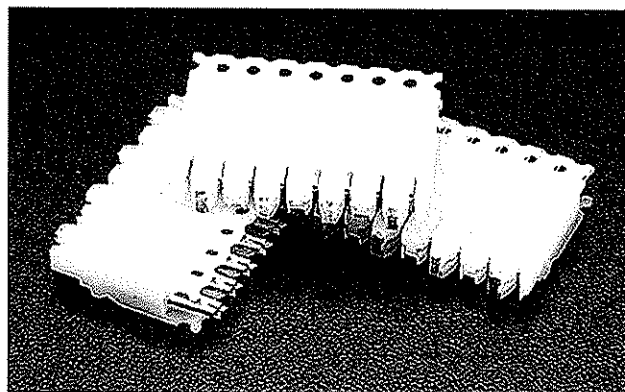
Material: Made of fire-retardant plastic rated UL 94V-0 with solder plated IDC's

DESIGN CONSIDERATIONS

- Available in three pair-count sizes: C-3, C-4 and C-5
- These 110 IDC connector blocks can withstand 200 reterminations
- Seat the connector blocks on the 110 wiring base index strip with a 5-pair spring-loaded termination tool

WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.levitonvoicedata.com/ccs/warranty.aspx



TYPICAL SPECIFICATION

The 110 connector blocks shall support termination for voice, security, and Category 5e data applications, including high megabit and shared-sheath applications when used with Power Sum rated cabling. The blocks shall be Category 5e compliant, UL listed and TIA/EIA-568-B compliant. They shall be made of fire-retardant UL 94V-0 plastic with solder-plated insulation displacement connectors, and must securely seat wires on 110 wiring bases, providing a gas-tight IDC connection that can withstand 200 reterminations.

ELECTRONIC FILES

For CAD files, Typical Specs, or Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT), visit www.levitonvoicedata.com.

110-Style Crossconnect Products



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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110-Style Crossconnect Products

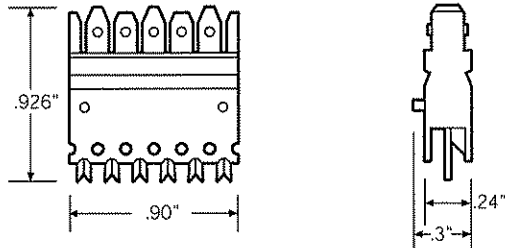
Part Numbers

49103-IDC

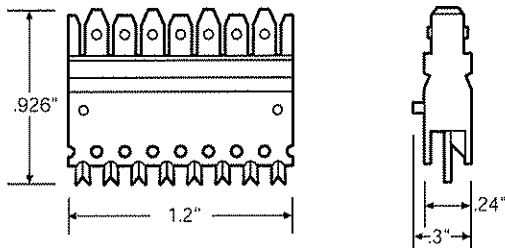
49104-xxx

49105-IDC

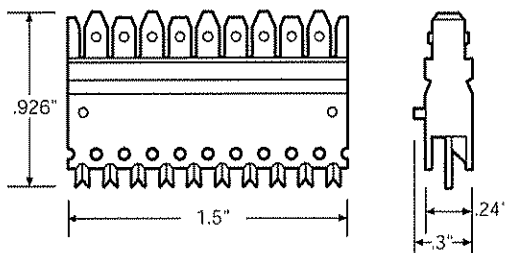
C-3 Connector Block



C-4 Connector Block



C-5 Connector Block



PART NUMBERS

Description	Part No.
C-3 Connector Blocks (bag of 10)	49103-IDC
C-4 Connector Blocks (bag of 10)	49104-IDC
C-4 Connector Blocks (bag of 50)	49104-ISO
C-5 Connector Blocks (bag of 10)	49105-IDC



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.



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Component Specifications

Part Numbers
49253-LPM, 4925C-LPM
49253-BCM, 4925C-BCM
49253-2CM

Five-Ring Horizontal Patch Cord Manager Rack Cable Management Accessories

APPLICATION

Low-profile Five-ring manager for light-duty cord distribution at the front of industry standard 19" equipment racks, cabinet enclosures and hinged wall-mount racks.

FEATURES

- Distribution rings are radius-edged (smooth polished) to protect cable from nicks or wear
- Oversized distribution rings to accommodate patch cords
- Five-ring design reduces cord stress and improves containment near patch panels
- Use as an alternate mode of horizontal management between patch panels
- Position at the top, center or bottom of distribution frame for low-density cable management

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: UL Listed; CSA Certified; complies with TIA/EIA-568-B.

PHYSICAL SPECIFICATIONS

Panels

Dimension

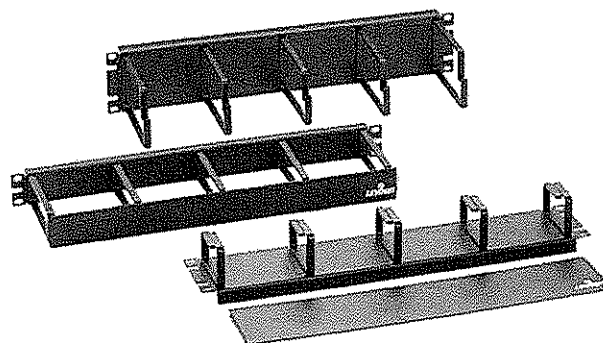
49253-LPM:	1.72"H x 19.0"W x 4.50"D
4925C-LPM w/cover:	1.72"H x 19.0"W x 4.50"D
49253-2CM:	3.47"H x 19.0"W x 2.50"D
49253-BCM:	3.47"H x 19.0"W x 4.50"D
4925C-BCM w/cover:	3.47"H x 19.0"W x 4.50"D

Material:

16 gauge steel, black powder coat

Mounting:

(4) #12-24, pilot-point, combination head screws included



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

TYPICAL SPECIFICATION

The Five-ring cable manager shall provide the capability to organize and contain patch cords on the front of the panel. The front of the panel shall provide five (5) high capacity horizontal distribution rings to reduce stress on stored cables and to retain optimal cable geometry. All distribution rings shall have edges with a radius to protect cables from nicks and tears. The cable manager shall be 1 and/or 2 EIA rack units high, and shall fit a standard 19" rack. The material shall be .060" steel with black powder coat finish.

ELECTRONIC FILES

For CAD files, Typical Specs, or Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT), log on to www.levitonvoicedata.com.

Five-Ring Horizontal Patch Cord Manager



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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Five-Ring Horizontal Patch Cord Manager

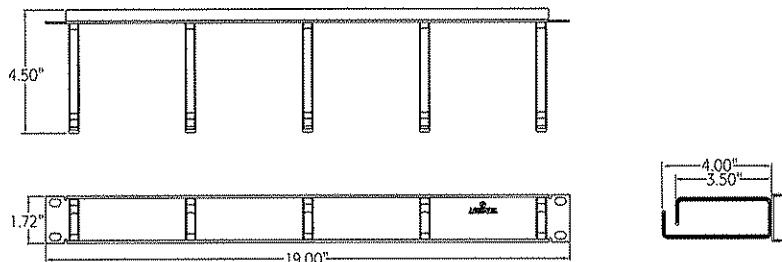
Rack Cable Management Accessories

Part Numbers
49253-LPM, 4925C-LPM
49253-BCM, 4925C-BCM
49253-2CM

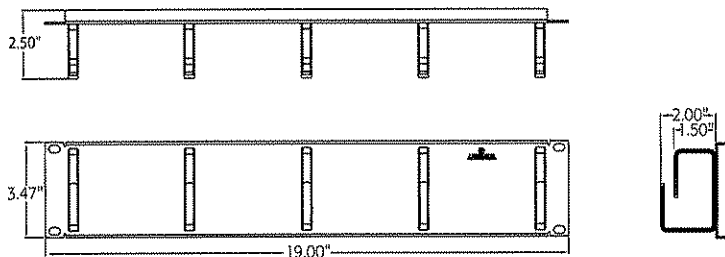
DIMENSIONAL LINE ART

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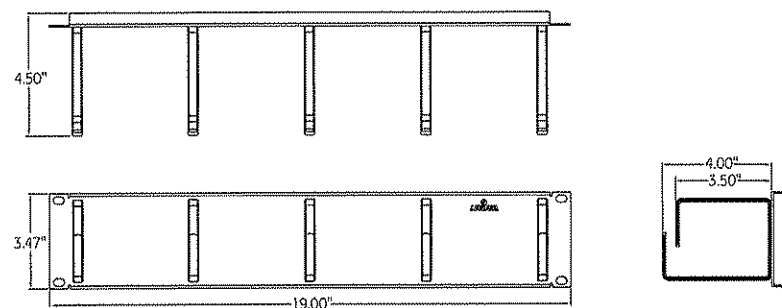
49253-LPM



49253-2CM



49253-BCM



PART NUMBER

Description	Part No.
Five-Ring Horizontal Patch Cord Manager	49253-LPM
Five-Ring Horizontal Patch Cord Manager w/cover	4925C-LPM
Five-Ring Horizontal Patch Cord Manager	49253-2CM
Five-Ring Horizontal Patch Cord Manager	49253-BCM
Five-Ring Horizontal Patch Cord Manager w/cover	4925C-BCM

For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Number
49910-xxx

QuickPort® Modular Furniture Faceplates with ID Windows

APPLICATION

Leviton's QuickPort® Modular Furniture Faceplates with ID windows offer field-configurable flexibility, and feature a designation window for simpler, more organized workstation identification. The faceplates accept QuickPort snap-in connectors and adapters to support a variety of voice/data applications in open office environments.

FEATURES

- Installation and changes can be made without removing the modular furniture channel cover.
- Plate can be installed and removed from kickplate without tools (see detailed installation instructions included with product).
- ID designation window for each faceplate.
- Labeling kit included (contains two, white labels).

STANDARDS COMPLIANCE

Meets or exceeds all applicable standards: cULus Listed; complies with NEC® Article 800 and TIA/EIA-568-B.

PHYSICAL SPECIFICATIONS

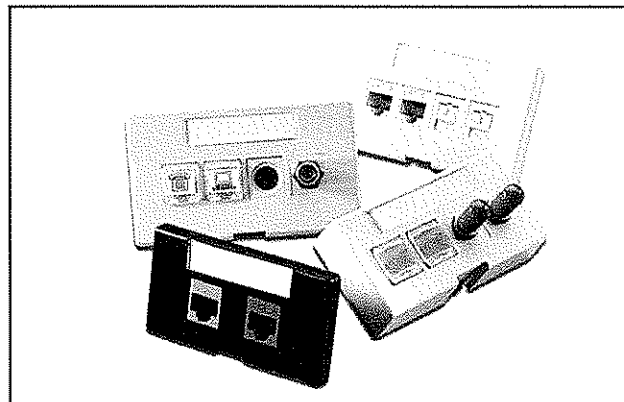
Dimensions:	Standard: 1.70"H x 3.15"W x 1.18"D*
	Herman Miller: 2.18"H x 3.65"W x 1.18"D*
	Extended-Depth: 1.80"H x 3.25"W x 1.18"D*
*when loaded with a Category 5 connector	
Capacity:	Designation Label: 1.83"H x .45"W x .93"D
	Four-port versions accept any combination of 1 to 4 QuickPort connectors and adapters. Two-port versions accept 1 or 2 connectors and adapters in any combination
Materials:	High-impact, fire-retardant plastic rated UL 94V-0

DESIGN CONSIDERATIONS

- Specify 49910-SXX (standard) or 49910-HXX (Herman Miller) versions (dependent on furniture type).*
- Specify 49910-EXX (same opening size as 49910-SXX) for installation into shallow raceway channels (plate has 0.5" added depth).
- Specify port identification method (colored connectors, adapters, and designation labels available).
- Configure 1, 2, 3 or 4 active ports; spare ports can be filled with blanks for later use (one blank QuickPort insert is included with 4-port plate).

* XX=various configurations and colors, see second page.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

QuickPort Modular Furniture Faceplate—Standard

The modular furniture connector housing must be a field-configurable faceplate providing from 1 to 4 flush-mount ports for a variety of snap-in connectors and adapters.

QuickPort Modular Furniture Faceplate—Herman Miller

The modular furniture connector housing must be a field-configurable flush-mount faceplate compatible with Herman Miller voice/data openings, and providing from 1 to 4 flush-mount ports for a variety of snap-in connectors and adapters.

QuickPort Modular Furniture Faceplate—Extended-Depth

The modular furniture connector housing must be a field-configurable faceplate extending 0.75" from the furniture raceway to facilitate fiber or copper cable bend-radius compliance, or to compensate for shallow/crowded/powered raceway channels, and providing from 1 to 4 flush-mount ports for a variety of snap-in connectors and adapters.

Faceplate must have a rattle-free fit and a single tool-less release latch; be constructed of high-impact self-extinguishing plastic rated UL 94V-0; and be cULus Listed, and compliant with FCC Part 68, NEC Article 800 and TIA/EIA-568-B specifications.



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Spec sheets and updates are also available at www.levitonvoicedata.com.

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QuickPort® Modular Furniture Faceplates

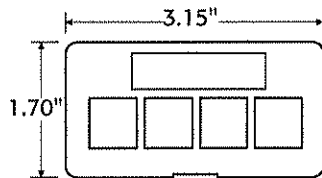
QuickPort® Modular Furniture Faceplates

Part Number
49910-xxx

DIMENSIONAL LINE ART

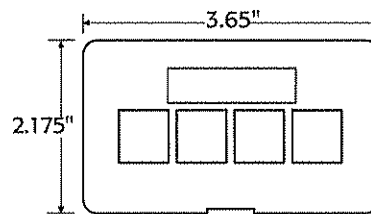
See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)

Standard Faceplate
(-S*2, -S*4 versions)



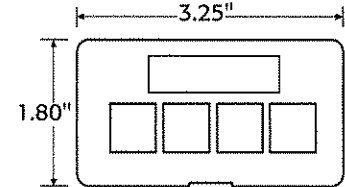
Front View

Herman Miller Faceplate
(-H*2, -H*4 versions)

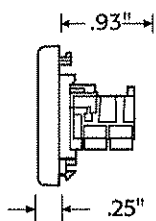


Front View

Extended-Depth Faceplate
(-E*4 versions)

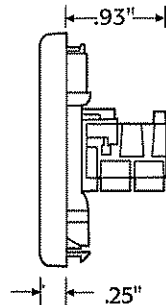


Front View



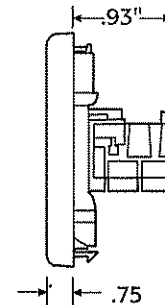
Side View

STANDARD FACEPLATE
2- or 4-Port
(fits openings
of approximately
1.38" x 2.70")



Side View

**HERMAN MILLER
FACEPLATE**
2- or 4-port
(fits openings of
approximately
1.88" x 2.98")



Side View

**EXTENDED-DEPTH
FACEPLATE**
4-port only for shallow
or powered channels
(fits openings of
approximately
1.38" x 2.70")

PART NUMBERS

Description	Part No.	Herman Miller	Steelcase	Haworth	HON	Others
2-Port Faceplate w/ ID Window	49910-S*2	✓	✓	✓	✓	✓
4-Port Faceplate w/ ID Window (includes one blank)	49910-S*4	✓	✓	✓	✓	✓
4-Port Extended Faceplate w/ID Window (includes one blank)	49910-E*4	✓	✓	✓	✓	✓

(Above part numbers fit openings of approx. 1.38" x 2.70")
*Colors Choices = (I) Ivory, (W) White, (G) Grey and (E) Black

Description	Part No.	Herman Miller	Steelcase	Haworth	HON	Others
2-Port HM Faceplate w/ ID Window	49910-H*2	✓	-	-	-	✓
4-Port HM Faceplate w/ ID Window (includes one blank)	49910-H*4	✓	-	-	-	✓

(Above part numbers fit openings of approx. 1.88" x 2.98")
*Colors Choices = (I) Ivory, (W) White, (G) Grey and (E) Black



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Numbers
51084-ICN

QuickPort® Shutters

APPLICATION

Leviton's easy-to-use QuickPort® Shutters are compatible with any Leviton Category 5, Category 5e or Category 6 workstation connector and feature a unique, hinged door that protects against dust and contamination. The Shutters come with a port identification window and pre-printed labels.

STANDARDS COMPLIANCE

Meets all applicable standards: cULus listed, NOM, and ACA requirements. Compatible with TIA/EIA-606 and meets FCC Part 68.

PHYSICAL SPECIFICATIONS

Materials: Shutter: Natural polypropylene
Window: Polycarbonate
Dimensions: .720"H x .571"W x .130"D

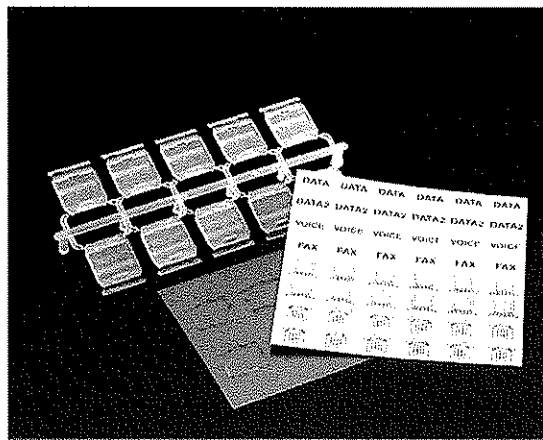
DESIGN CONSIDERATIONS

- Compatible with any Leviton Category 5, Category 5e or Category 6 connector.
- Alignment and snap-in feature for easy installation.
- Single-piece hinged door protects against dust and contamination.
- Port identification window.
- Includes white, pre-printed icon labels.
- Additional pre-printed label accessory kits available:
 - Color Label Kit: PN# 51084-CLB
(Includes: Brown, Green, Yellow, Orange, Red, Blue, Grey, Purple)
 - White Label Kit: PN# 51084-XLB

WARRANTY INFORMATION

- One-year limited product warranty.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATIONS

QuickPort® Shutters shall protect any Leviton Category 5, Category 5e or Category 6 connector. They shall be cULus listed, meet NOM and ACA requirements. The Shutters shall be compatible with TIA/EIA-606 and meet FCC Part 68. The Shutters shall be .720"H x .571"W x .130"D and be made of natural polypropylene featuring a single-piece hinge; the identification window shall be made of polycarbonate. The Shutters shall come with a port identification window and pre-printed labels. The manufacturer shall provide a one-year limited product warranty.

QuickPort® Shutters



For Applications Engineering Support - Call 1-425-485-4288; in USA call 1-800-722-2082
Spec sheets and updates are also available at www.levitonvoicedata.com.

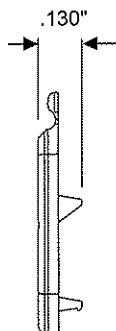
QuickPort® Shutters

Part Numbers
51084-ICN
.....

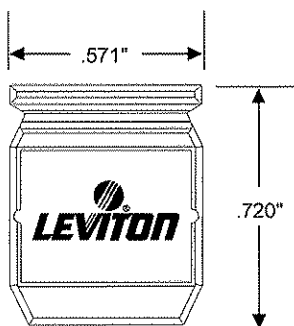
DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)

Side View



Front View



PART NUMBER

Description	Part No.
QuickPort® Shutter (Leviton logo)	51084-ICN
Color Label Accessory Kit	51084-CLB
White Label Accessory Kit	51084-XLB



For Applications Engineering Support – Call 1-425-485-4288; in USA call 1-800-722-2082.
Spec sheets and updates are also available at www.levitonvoicedata.com.



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Component Specifications

Part Number
62460-xxx

eXtreme® 6+ Patch Cord

APPLICATION

Leviton's eXtreme® 6+ patch cords are designed to be used in typical Category 6 channel applications. Leviton's eXtreme 6+ systems are designed for use in high megabit applications such as Gigabit Ethernet.

FEATURES

- Available in 7 different TIA/EIA 606-A compatible colors.
- Available in 6 standard lengths (custom lengths available).
- Slim line boot to accommodate use in high density switches, routers, and other electronics.
- Color matched cords and boots.

STANDARDS COMPLIANCE

eXtreme 6+ system components 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.

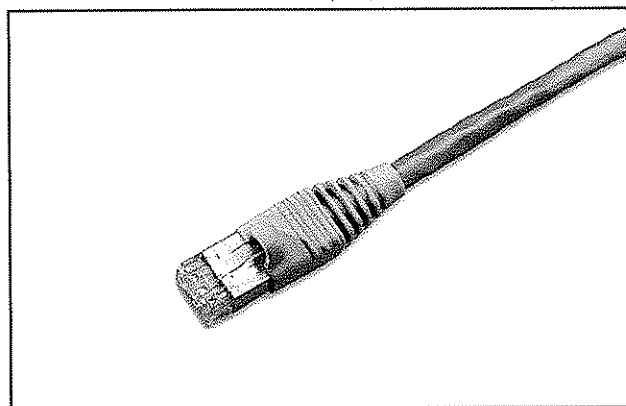
PHYSICAL SPECIFICATIONS

Dimensions: 3, 5, 7, 10, 15, and 20 foot lengths.
Materials: Plug 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.
Color: White, Grey, Black, Blue, Red, Yellow, Green (Matching color boots.)

DESIGN CONSIDERATIONS

- TIA/EIA channel performance limits the total length of work area and equipment room cords to 32 feet (10 meters) per TIA/EIA-568-B or 88.6 feet (27 meters) in a MUTOA application.
- A variety of colors for color-coding and organizing.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



eXtreme® 6+ Patch Cord

WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The modular patch cord 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 patch cords shall be stranded UTP, with an 8-position modular plug on each end. The cords shall be available in 3, 5, 7, 10, 15 and 20 foot lengths. The cords shall meet TIA/EIA-568-B.2-1. All plastics used in construction of the connector bodies shall be fire-retardant with a UL flammability rating of 94V-0.

PART NUMBERS

eXtreme 6+ Patch Cords with matching boots	Part No.
3-foot length	62460-03*
5-foot length	62460-05*
7-foot length	62460-07*
10-foot length	62460-10*
15-foot length	62460-15*
20-foot length	62460-20*

*Colors: (W) White, (Y) Yellow, (L) Blue, (E) Black, (R) Red, (G) Green, (S) Grey



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005
Spec sheets and updates are also available at www.levitonvoicedata.com.

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Component Specifications

Part Number
61110-Rx6

eXtreme® 6+ Connector

APPLICATION

Leviton's eXtreme® 6+ Connector is designed to be used with all Leviton QuickPort® compatible products. The connectors include Leviton's patented "Retention Force Technology" (RFT) which promotes consistent performance over the life of the system. 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.

STANDARDS COMPLIANCE

eXtreme® 6+ system components 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.

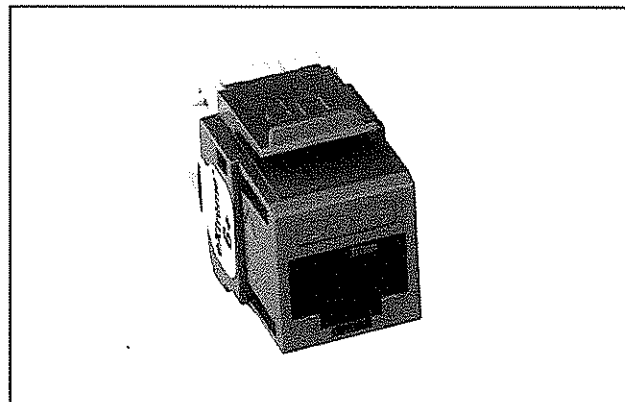
DESIGN CONSIDERATIONS

- Use in any QuickPort® housing to support Category 6 UTP connectivity in surface mount, flush mount, or modular furniture outlets and field configurable panels.
- Can be used in conjunction with other QuickPort® snap-in modules for voice/data and video applications over UTP, coax and fiber.
- To identify ports: use different colored modules for each application (full selection of TIA/EIA-606 compatible colors—13 available).

INSTALLATION NOTES

- Designed for cable termination with a 110 punchdown tool.
- Detailed installation instructions are included in the standard pack.
- IDCs arranged to minimize untwisting.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The modular connector shall meet or exceed the requirements for channel and component-level performance described in TIA/EIA-568-B.2-1 Category 6 standards. The modular connector shall be individual snap-in style. The connectors shall also be in compliance with all National Electrical Codes; compliant with FCC Part 68; UL listed; and independently verified. In addition to Category 6 compliance, the connector shall have the ability to support high megabit and shared-sheath applications. All plastics used in construction of the connector bodies shall be fire-retardant with a UL flammability rating of 94V-0. Termination of all connectors shall be 110-type insulation displacement connectors (IDC). The connector shall provide a ledge directly adjacent to the 110-style termination against which the wires can be directly terminated and cut in one action by the installation craftsperson. Connector wiring is universal and will accommodate installation color codes for T568A and T568B wiring schemes. The termination field shall be in the rear for easy access. The modular connector shall fit all other installed telecommunications wallplates, outlets and field-configurable patch panels and patch blocks. Colors and configurations to be specified per schedule on plan.

eXtreme® 6+ Connector



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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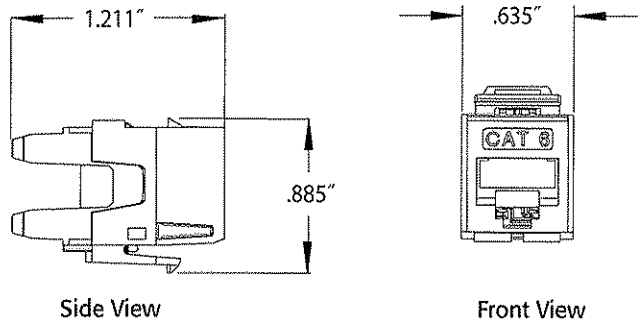


eXtreme® 6+ Connector

Part Number
61110-Rx6

DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)



Part Number

eXtreme 6+ Connector	Part No.
eXtreme 6+ Connector	61110-R*6

*= Color choices for connectors: (I) Ivory, (W) White, (G) Grey, (E) Black, (O) Orange, (L) Blue, (C) Crimson Red, (Y) Yellow, (V) Green, (P) Purple, (A) Almond, (B) Brown, (R) Dark Red.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Number
69586-Uxx
69586-C48

eXtreme® 6+ Universal Patch Panels

APPLICATION

Leviton's eXtreme 6+ patch panels are designed for use on 19" standard racks and cabinets. The patch panels include Leviton's patent pending "Retention Force Technology" which promotes consistent performance over the life of the system. Installer friendly design allows for quick installation due to standard 110 terminations on the rear of the panel which follows the normal installation color sequence (blue, orange, green, brown) from left to right. Leviton's eXtreme 6+ system is designed for use in high megabit applications such as Gigabit Ethernet.

FEATURES

- Includes "Retention Force Technology."
- Craft-Friendly Installation.
- Universal T568A and T568B wiring cards for 110 style IDC terminations.
- Color-coded front labeling for easy port identification (TIA-606-A compliant).
- Grounding standoff for optional earthing/grounding.

STANDARDS COMPLIANCE

eXtreme 6+ system components 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.

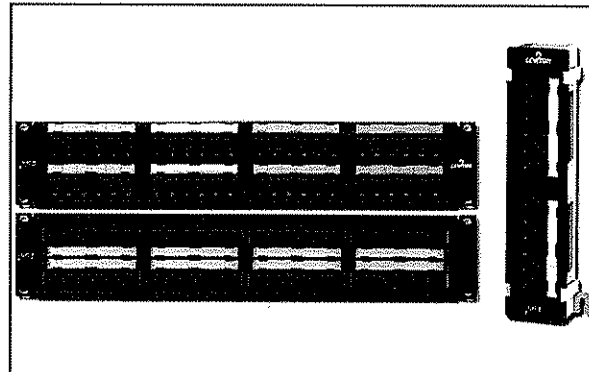
PHYSICAL SPECIFICATIONS

Dimensions:	See second page
Capacity:	12-, 24-, 48-, 96-port, U-89 Universal 12-port block
Materials:	16 gauge steel, painted black; PCB and plastic components are rated per UL 94V-0

DESIGN CONSIDERATIONS

- Color coded front window labeling for easy port identification.
- Mounts on 19" equipment racks.
- Panel offered in 12-, 24-, 48-, 96-Port configurations and Universal 12-port U89 Block for wall mount applications.
- Connector modules are in groups of six.
- Includes rear cable management bars.
- 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.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

For ELECTRONIC Typical Specs see (.TXT) file on disk.

TYPICAL SPECIFICATION

The patch panel shall meet or exceed the requirements for Category 6 described in TIA/EIA-568-B.2-1 as well as the Class E requirements described in ISO/IEC 11801-B. The panels shall feature both T568A and T568B wiring configurations, white IDC 110-punchdown modules, mounting standoffs for cable management bars, color-coded front window labeling, and a termination standoff for patch panel earthing/grounding. The panels shall have universal T568A and T568B wiring card for terminations. The panels shall be made of 16 gauge steel, and shall have a black painted finish with white silk-screening. The plastic elements shall be fire-retardant with a UL flammability rating of 94V-0. The panel shall be offered in 12-, 24-, 48-, 96-port configurations as well as an 89D 12-port configuration. The patch panel shall be configured with six port modules. The 110 termination on the rear of the panel shall follow normal installation color sequence (blue, orange, green, brown) from left to right.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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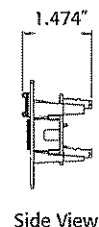
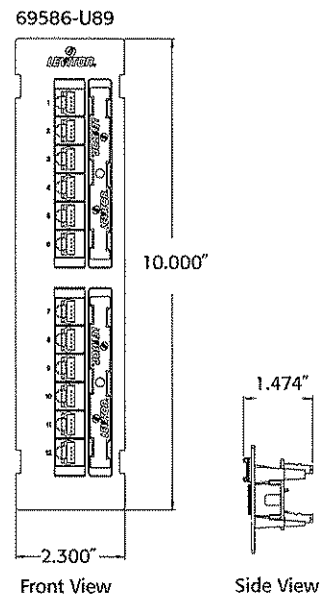
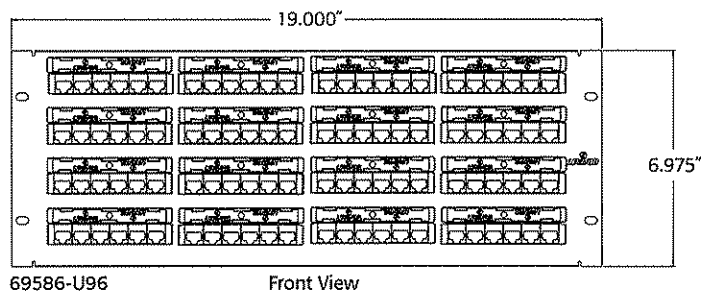
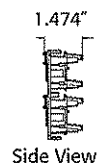
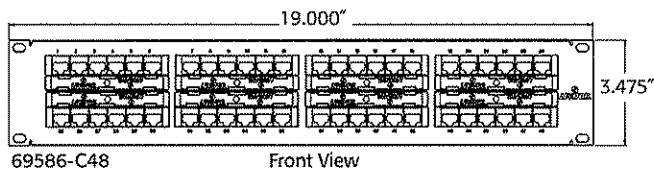
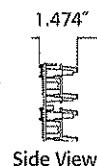
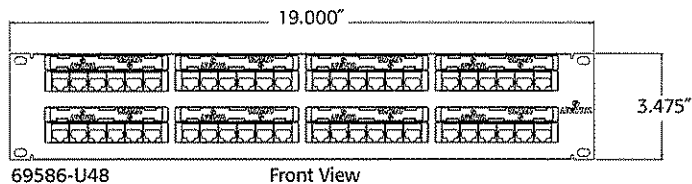
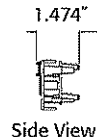
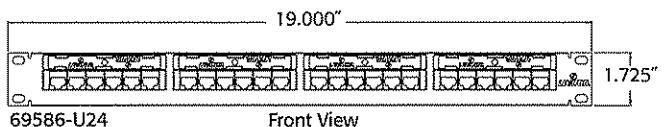
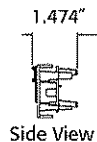
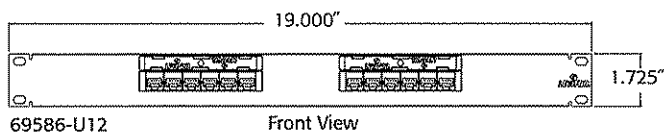
eXtreme 6+ Universal Patch Panels

eXtreme® 6+ Universal Patch Panels

Part Number
69586-Uxx
69586-C48

DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images (.DXF, .DWG, MS-DOS.EPS)



PART NUMBERS

eXtreme 6+ Patch Panels	Part No.
eXtreme 6+ Patch Block	69586-U89
eXtreme 6+ 12-Port Patch Panel	69586-U12
eXtreme 6+ 24-Port Patch Panel	69586-U24
eXtreme 6+ 48-Port Patch Panelw/centralized labeling	69586-C48
eXtreme 6+ 48-Port Patch Panel	69586-U48
eXtreme 6+ 96-Port Patch Panel	69586-U96



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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Component Specifications

Part Numbers

62PXX-M03 UPPXX-S03
50PXX-M03 APPXX-S03

Single-mode and Multimode Fiber Optic Pigtails

APPLICATION

Leviton's Single-mode and Multimode Fiber Optic Pigtails are designed to support mechanical and fusion splicing for fiber cabling systems.

STANDARDS COMPLIANCE

Compliant with TIA/EIA-568B.3.

PHYSICAL SPECIFICATIONS

Length:

3 meter length (Custom lengths available)

Dimensions:

All connectors built on .9mm tight buffered cable

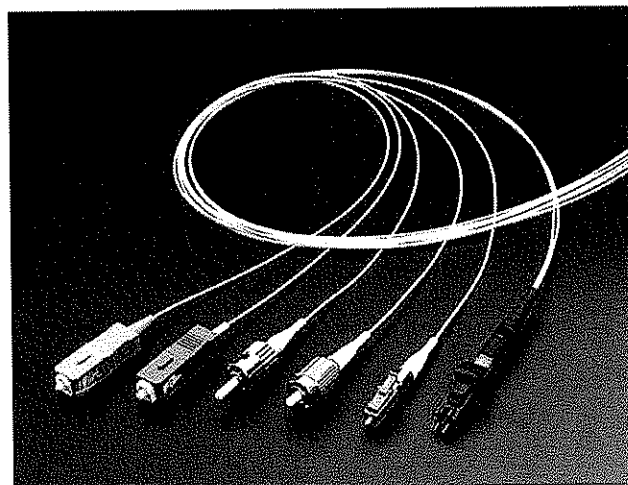
Cable Type & Color:

Single-mode and Multimode 50µm or 62.5µm OFNR rated white fiber optic cable

Custom options available

DESIGN CONSIDERATIONS

- Standard form factor connector styles
- Small form factor connector styles
- Insertion loss guaranteed to be less than .5dB at 1310nm and 1550nm per mated pair (singlemode), typical insertion loss .3dB
- Insertion loss guaranteed to be less than .5dB at 1300nm per mated pair (multimode), typical insertion loss .3dB
- All connectors have precision pre-radiused zirconia ferrules
- ST and FC connectors have metal bodies
- Corning glass fiber is standard
- Return loss for multimode pigtails is equal to or better than 20dB, with a typical of 22dB
- Return loss for single-mode UPC polish is greater than 55dB, with a typical of 57dB
- Return loss for single-mode APC polish is greater than 65dB, with a typical of 67dB



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

TYPICAL SPECIFICATION

The Single-mode and Multimode Fiber Optic Pigtails shall be available in 3-meter lengths, made of OFNR fiber optic cable, and be compliant with TIA/EIA-568-B.3. Single-mode pigtails shall come in ST, SC, FC and LC connector styles, offer UPC and APC polish types. Insertion loss shall average .3dB, but not exceed .5dB at 1310nm and 1550nm per mated pair. Multimode pigtails shall come in ST, SC, LC and MT-RJ connector styles, offer 50µm and 62.5µm core styles. Insertion loss shall average .3dB, but not exceed .5dB at 1300nm per mated pair.

ELECTRONIC FILES

For CAD files, Typical Specs, or Dimensional Line Art (.DXF, .DWG, MS-DOS.eps or .TXT), log on to www.levitonvoicedata.com.

Single-mode and Multimode Fiber Optic Pigtails



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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Single-mode and Multimode Fiber Optic Pigtails

Part Numbers
62PXX-M03 UPPXX-S03
50PXX-M03 APPXX-S03

Standard Part Numbers - Single-mode and Multimode Fiber Optic Pigtails

MULTIMODE PIGTAIL (3 METERS)		SINGLE-MODE PIGTAIL (3 METERS)	
DESCRIPTION	SIMPLEX	DESCRIPTION	SIMPLEX
SC 62.5/125µm	62PSC-M03	SC UPC polish	UPPSC-S03
ST 62.5/125µm	62PST-M03	ST UPC polish	UPPST-S03
LC 62.5/125µm	62PLC-M03	LC UPC polish	UPPLC-S03
SC 50/125µm	50PSC-M03	FC UPC polish	UPPFC-S03
ST 50/125µm	50PST-M03	SC APC polish	APPSC-S03
LC 50/125µm	50PLC-M03	LC APC polish	APPLC-S03
		FC APC polish	APPFC-S03

Custom Configuration Chart - Single-mode and Multimode Fiber Optic Pigtails

Example: FJ-AU001G-002 = Fiber jumper, UPC polish ST connector, pigtail, single-mode, 2 meters.

	FIBER TYPE	CABLE TYPE	FIBER COUNT	FIRST END TERMINATION	LENGTH (METERS)
FJ	X	X	XXX	X	XXX
	A = SM - ITU G-652	U = Pigtail	001	C = ST MM	001 - 999
	B = MM 50/125µm - ITU G-651	X = Other	002	D = FC MM	
	C = MM 62.5/125µm - ITU G-651		XXX = Other	E = SC MM	
	E = MM 50/125µm Laser Optimized ITU G-651 - 300m			F = LC MM	
	X = Other			G = ST/UPC SM	
				H = FC/UPC SM	
				J = SC/UPC SM	
				K = LC/UPC SM	
				M = FC/APC SM	
				N = SC/APC SM	
				R = LC/APC SM	
				U = MT-RJ MM	
				V = MT-RJ SM	
				X = Other	

Note: For LC and MT-RJ connectors, cable type is 1.6mm simplex or duplex unless otherwise specified. For all other connectors, cable type is 3mm.

Please call for Custom Configuration price quotes and lead times.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
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Component Specifications

Part Numbers
Z1000-AC2
Z1000-AC4

Active Ceiling Mount Telecommunications Enclosures

APPLICATION

Leviton's Ceiling Mount Telecommunications Enclosures for active devices mount in standard drop ceilings and are available in two sizes to suit various installations. The enclosures accommodate removable 19" rack-mount assemblies designed to support active equipment, patch panels and wire management in zone cabling applications. Edge-protected cable access ports with fire-rated foam sealing kits make these enclosures ideal for use in plenum spaces. Enclosures are AC power ready with 9 CFM fan for heat removal.

FEATURES

- Fully-hinged, drop down doors support installed equipment and open to provide safe, easy access.
- Enclosures install flush with the drop ceiling for clean look.
- Plenum-rated.
- Two edge-protected cable access ports with fire-rated foam sealing kit.
- AC power ready.
- 9 CFM fan with transformer provides more than 100 air changes per hour.
- 2' x 2' enclosure houses one removable rack-mount assembly with 2RU active, 5RU (2U+1U+2U) of patch panels and wire management.
- 2' x 4' enclosure houses two removable rack-mount assemblies, each with 4RU active (8U total), 10RU divided (2U+1U+2U) of patch panels and wire management.

STANDARDS COMPLIANCE

UL Listed. Communications Circuit Accessory.

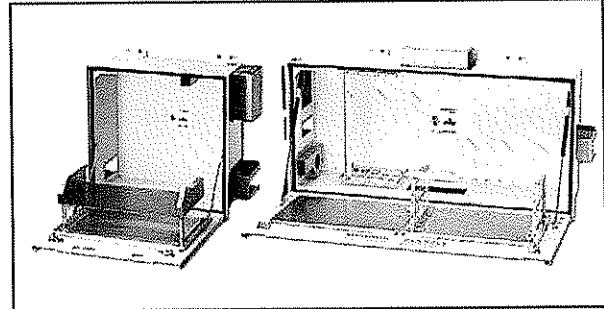
PHYSICAL SPECIFICATIONS

Dimensions: See second page.

Weight: Unit weight - 39 lbs
Door weight capacity - 25 lbs 2 x 2, 50 lbs 2 x 4
Maximum unit weight capacity - 75 lbs 2 x 2, 85 lbs 2 x 4

Materials: Enclosures are manufactured of .060" sheet aluminum with riveted construction. Foam Sealing Kit is polychloroprene latex compound.

See ELECTRONIC FILES for CAD files (.DXF, .DWG, MS-DOS.EPS) on disk



WARRANTY INFORMATION

For a copy of Leviton product warranties, log on to www.levitonvoicedata.com/warranty.

DESIGN CONSIDERATIONS

- Use for zone cabling applications such as consolidation points and support of active devices.
- Use 3/8" threaded rods and hardware to support the enclosure within the drop ceiling (sold separately).
- Use #12-24 equipment mounting screws to attach patch panels (included with all Leviton patch panels).

TYPICAL SPECIFICATION

Ceiling Mount Telecommunications Enclosures shall be plenum-rated and suitable for installation in air handling spaces and shall fit standard drop ceiling tile sizes. Fire-rated foam sealing kit shall be included. Units shall accommodate removable 19" rack-mount assemblies with space for active devices, patch panels and wire management for use in zone cabling applications.

For ELECTRONIC Typical Specs see (.TXT) file on disk.



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.

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Active Ceiling Mount Telecommunications Enclosures

Active Ceiling Mount Telecommunications Enclosures

Part Number

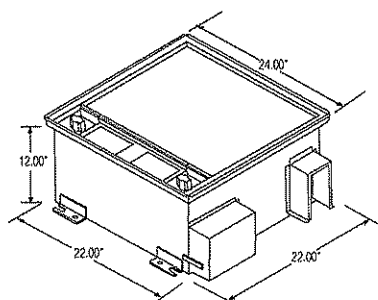
Z1000-AC2

Z1000-AC4

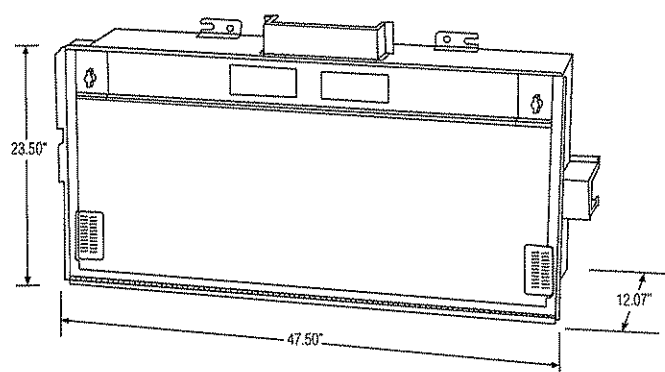
DIMENSIONAL LINE ART

See ELECTRONIC FILES for CAD images
(.DXF, .DWG, MS-DOS.EPS)

Ceiling Enclosure 2' x 2'



Ceiling Enclosure 2' x 4'



PART NUMBERS

Description	Part No.
Ceiling Enclosure, 2' x 2' w/junction box and fan	Z1000-AC2
Ceiling Enclosure, 2' x 4' w/junction box and fan	Z1000-AC4



For Technical Support Call 1-425-485-4288; in USA call 1-800-824-3005.
Spec sheets and updates are also available at www.levitonvoicedata.com.



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MOHAWK MASTER SPECIFICATION
6 LAN™ CABLE
4 PAIR #24 AWG UTP CATEGORY 6 PLENUM

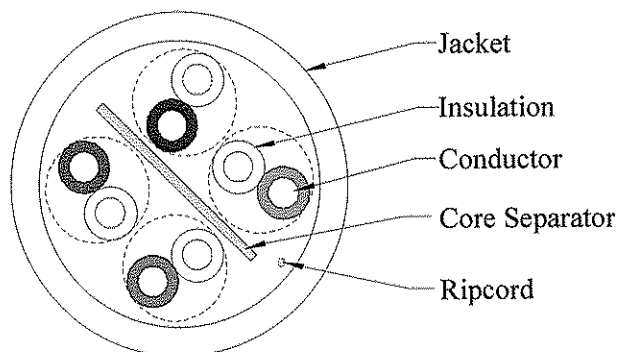
Mohawk Design No:

HT49156

DESCRIPTION

ENHANCED UNSHIELDED TWISTED PAIR (UTP) 6 LAN CABLE FOR USE IN HORIZONTAL CABLING SYSTEMS AS DESCRIBED IN TIA/EIA 568-B. THE CABLE MEETS TIA/EIA 568-B.2-1 & ISO/IEC 11801 CATEGORY 6. THE CABLE CONSISTS OF #24 AWG SOLID BARE COPPER INSULATED CONDUCTORS, ASSEMBLED INTO FOUR TIGHTLY TWISTED PAIRS, WITH A CORE SEPARATOR AND RIPCORD, UNDER AN OVERALL JACKET. PRINT INCLUDES DESCENDING FOOTAGE MARKERS FROM 1000 TO 0 ON EACH 1000 FT REEL OR BOX. THIS PRODUCT AND/OR ITS MANUFACTURE IS COVERED BY US PATENT NOS. 6570095, 5563377 & 5424491.

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



SUPPORTED APPLICATIONS

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

CONSTRUCTION

PRIMARIES: CONDUCTOR: 24 AWG (.5 mm) SOLID BARE COPPER
DUAL INSULATION, FEP ON ALL 4 PAIRS

PAIR

ASSEMBLY: 2 PRIMARIES TWISTED IN VARIED LAYS

COLOR CODE: SEE TABLE 1

CABLE

ASSEMBLY: 4 PAIRS CABLED TOGETHER WITH A
CORE SEPARATOR

JACKET: NO LEAD PLENUM RATED THERMOPLASTIC
JACKET COLOR: SEE TABLE 2
NOMINAL CABLE OD: .208" (5.28 mm)

LISTING: UL/cUL TYPE CMP
ETL VERIFIED TO TIA/EIA 568-B.2-1 CAT 6

PHYSICAL CHARACTERISTICS

CABLE WEIGHT: 29 lbs/1000ft (43 kg/km)
BENDING RADIUS: 1" (25 mm) MIN (4 x CABLE OD)
PULLING TENSION: 25 lbf (110 N) MAX
OPERATING TEMP.: -20°C to +60°C (-4°F to +140°F)
STORAGE TEMP.: -20°C to +75°C (-4°F to +167°F)
***INSTALLATION TEMP.:** 0°C to +60°C (+32°F to +140°F)

TABLE 1

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

TABLE 2

MOHAWK PART NUMBER	MOHAWK DESIGN NUMBER	JACKET COLOR
M58280	HT49423	WHITE
M58281	HT49424	BLUE
M58282	HT49425	PINK
M58283	HT49426	YELLOW
M58285	HT49427	GRAY
M58286	HT49428	LIME GREEN
M58287	HT49429	RED
M58288	HT49430	ORANGE
M58289	HT49431	BLACK
M58290	HT49432	VIOLET

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

MOHAWK/CDT

A DIVISION OF

CABLE DESIGN TECHNOLOGIES

9 Mohawk Drive Leominster, MA 01453-3341 USA
(978) 537-9961 (800) 422-9961 Fax: (978) 537-4358

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Rev	Description	Date	Init.
C	CHG INSUL, JKT, LISTINGS, PAT #, CBL WGT	04/17/03	JS
D	UPDATE APPS, ELECT TO 550 MHz	04/29/03	RA
E	UPDATE DESC, STD, ELEC NOTE	05/27/03	RA
F	UPDATE CORE DESIGN, DIAMETER, WEIGHT, PAT #	11/13/03	JS
Date: 12/11/01		Page 1 of 2	
Orig:		Review:	
		Mohawk Design No:	
		HT49156	

Mohawk/CDT reserves the right to change any specification in the interest of product enhancement.

MOHAWK MASTER SPECIFICATION
6 LAN™ CABLE
4 PAIR #24 AWG UTP CATEGORY 6 PLENUM

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ELECTRICAL CHARACTERISTICS (REF TABLE 3)

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

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

DCR UNBALANCE: 3% MAX

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

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

CHARACTERISTIC IMPEDANCE: 100 Ω ± 15% (1-250 MHz)

INPUT IMPEDANCE: 100 Ω ± 15% (1-100 MHz)
100 Ω ± 20% (>100-200 MHz)
100 Ω ± 25% (>200 MHz)

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

INSERTION LOSS: $1.808\sqrt{f} + .017f + \frac{.20}{\sqrt{f}}$ dB/100m MAX

NEAR END CROSSTALK (NEXT): 44.3 - 15 log₁₀(f/100) dB/100m MIN

POWER SUM NEAR END CROSSTALK (PS-NEXT): 42.3 - 15 log₁₀(f/100) dB/100m MIN

EQUAL LEVEL FAR END CROSSTALK (ELFEXT): 27.8 - 20 log₁₀(f/100) dB/100m MIN

POWER SUM EQUAL LEVEL FAR END CROSSTALK (PS-ELFEXT): 24.8 - 20 log₁₀(f/100) dB/100m MIN

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

DELTA DELAY (SKEW): 37 ns/100m MAX

NOMINAL VELOCITY OF PROPAGATION (NVP): 72%

WHERE f = FREQUENCY IN MHZ from .772 to 250 MHz.

TABLE 3

REFERENCE ELECTRICAL CHARACTERISTICS

FREQ (MHz)	INSERTION LOSS (dB/100m)		NEXT (dB/100m)		ACR (dB/100m)	PS-NEXT (dB/100m)		PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RL (dB)
	avg	max	avg	min	min	avg	min	min	min	min	min
.772	1.7	1.8	82	76.0	74.2	77	74.0	72.2	—	—	—
1.0	1.9	2.0	80	74.3	72.3	75	72.3	70.3	67.8	64.8	20.0
4.0	3.6	3.8	71	65.3	61.5	66	63.3	59.5	55.8	52.8	23.0
8.0	5.1	5.3	67	60.8	55.5	62	58.8	53.5	49.7	46.7	24.5
10.0	5.7	6.0	65	59.3	53.3	60	57.3	51.3	47.8	44.8	25.0
16.0	7.3	7.6	62	56.2	48.6	57	54.2	46.6	43.7	40.7	25.0
20.0	8.1	8.5	61	54.8	46.3	56	52.8	44.3	41.8	38.8	25.0
25.0	9.1	9.5	59	53.3	43.8	54	51.3	41.8	39.8	36.8	24.3
31.25	10.2	10.7	58	51.9	41.2	53	49.9	39.2	37.9	34.9	23.6
62.5	14.8	15.4	53	47.4	32.0	48	45.4	30.0	31.9	28.9	21.5
100.0	19.0	19.8	50	44.3	24.5	45	42.3	22.5	27.8	24.8	20.1
155.0	24.2	25.2	47	41.4	16.2	42	39.4	14.2	24.0	21.0	18.8
200.0	27.8	29.0	46	39.8	10.8	41	37.8	8.8	21.8	18.8	18.0
250.0	31.5	32.8	44	38.3	5.5	39	36.3	3.5	19.8	16.8	17.3
300.0	35.0	36.4	43	37.1	0.7	38	35.1	—	18.3	15.3	16.8
350.0	38.2	39.8	42	36.1	—	37	34.1	—	16.9	13.9	16.3
400.0	41.3	43.0	41	35.3	—	36	33.3	—	—	—	15.9
500.0	47.0	48.9	40	33.8	—	35	31.8	—	—	—	15.2
550.0	49.7	51.8	39	33.2	—	34	31.2	—	—	—	14.9

VALUES ABOVE 250 MHz ARE FOR ENGINEERING INFORMATION ONLY.

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Orig:		Review:	HT49156

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Agency _____
 REQ.P.O# _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, Pomeroy IT Solutions, Inc.
 of Hebron, Kentucky, as Principal, and Liberty Mutual Ins. Co.
 of Plymouth Meeting, Pennsylvania, a corporation organized and existing under the laws of the State of
MA with its principal office in the City of Plymouth Meeting, as Surety, are held and firmly bound unto the State
 of West Virginia, as Obligee, in the penal sum of Five Percent of the amount bid 05% for the payment of which,
 well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
 Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
DHHR Cabling Project ISCH0263

NOW THEREFORE,

(a) If said bid shall be rejected, or
 (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
 hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
 agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
 force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
 exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
 way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
 waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
 have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
7th day of July, 2008.

Principal Corporate Seal

Pomeroy IT Solutions, Inc.
 (Name of Principal)

By Krista Nelson
 (Must be President or
 Vice President)

Senior Vice President - General
 (Title) Counsel

Surety Corporate Seal

Liberty Mutual Ins. Co.
 (Name of Surety)

Richard T. Berger
 Attorney-in-Fact
 Richard T. Berger

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
 must be affixed, a power of attorney must be attached.

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint

CHARLES M. BERGER, JAMES A. BERGER, RICHARD T. BERGER, DIANE M. BOOTH, ALL OF THE CITY OF COVINGTON, STATE OF KENTUCKY

, each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **FIFTY MILLION AND 00/100** DOLLARS (\$ **50,000,000.00**) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, Garnet W. Elliott, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 26th day of March, 2008.

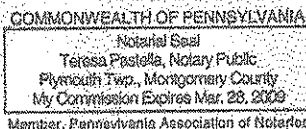
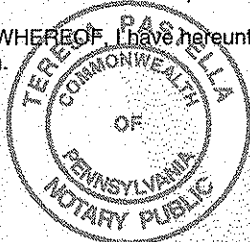
LIBERTY MUTUAL INSURANCE COMPANY

By Garnet W. Elliott
Garnet W. Elliott, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 26th day of March, 2008, before me, a Notary Public, personally came Garnet W. Elliott, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 7th day of July, 2008.



By David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.