

## 25-025 - Internal Connections-Structured Cabling (E-Rate)

### **Adams 12 Five Star Schools**

Project: 1108

United States, Colorado, Adams County

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Audra Vela

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Presented By:

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**SYSTEC101**

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## **Cover Letter**

Dear Adams 12 Five Star Schools District,

We are pleased to submit our proposal for the structured cabling project, RFP Number 25-025, for Adams 12 Five Star Schools. Our team's expertise and experience, including our successful completion of over 1,000 Cat 6a cable runs for Adams County School District 14, makes us confident that we can not only meet but exceed the expectations outlined in your RFP.

## **Scope of Work, Quality Assurance, and Technical Approach**

Our proposal aligns with the scope of work, period of performance, and standard terms and conditions specified in the RFP. Our technical approach and project schedule are designed to meet all the required guidelines and milestones. We emphasize quality and safety in all our installations, ensuring they adhere to the RFP's specifications and standards.

## **Contractual and Compliance Standards**

We are fully compliant with all required certifications. Our agreement includes compliance with CORA, ensuring transparency and integrity throughout the project. Additionally, our price proposal, which will remain valid for 120 days, is attached.

We are excited by the opportunity to partner with Adams 12 Five Star Schools on this project and are eager to leverage our expertise to enhance your network infrastructure. Please feel free to reach out to us with any questions or for further discussion of our proposal.

Thank you for your time and consideration.

Sincerely,

*Murat Yildirim*

Founder

By signing this cover letter, I, Murat Yildirim, as an authorized representative of SYSTEC101, hereby acknowledge and accept the proposed Scope of Work, the anticipated period of performance, and the standard terms and conditions as outlined in RFP Number 25-025. We have not proposed any changes to the aforementioned aspects of the RFP and agree to comply with all requirements and specifications stated therein.



## Technical Approach

Our technical approach for this cabling project is to utilize a patch panel-to-patch panel upgrade methodology. This strategic approach offers numerous benefits, including enhanced organization, streamlined cable management, and improved troubleshooting capabilities.

We anticipate completing the upgrade of one patch panel per day, ensuring a steady and efficient progression throughout the project. This measured approach also facilitates daily cutover processes, allowing us to transfer connections and restore device functionality by the end of each work shift. This commitment to daily cutover minimizes downtime and ensures that your operations experience minimal disruption.

Throughout the project, our team of skilled technicians will adhere to industry best practices and employ meticulous cable management techniques. This includes proper labeling, bundling, and securing of cables to maintain a clean and organized network infrastructure. By implementing these standards, we enhance the long-term maintainability and scalability of your cabling system.

We have calculated a total of 241 patch panels required for this project. This translates to 241 days for cabling and an additional 12 days for project planning (one day per school). The project is scheduled from April 1, 2025, to March 31, 2026. This timeline ensures the structured progression of work phases, focusing on efficient pathway generation before installation activities commence.

## **1. Cabling Pathway Evaluation and Generation**

Conduct an initial assessment of the current infrastructure and propose any necessary modifications or path generations to accommodate new cabling. This involves evaluating existing pathways and generating new routes as needed to ensure efficient cable management. The pathway evaluation and any subsequent generation should precede the physical installation work to prevent overlaps and ensure swift project execution.

## **2. Fiber Optic Cable Runs**

Establish fiber optic cable runs from the Main Distribution Frame (MDF) to each Intermediate Distribution Frame (IDF) using single-mode, indoor/outdoor rated 12-strand optical fiber cables. Each fiber will be terminated on both ends with SC connectors, accompanied by a patch cable per side.

## **3. Cable Support Installation**

Install J-Hooks and other necessary support structures to facilitate the traversal of cable bundles. This process includes securing all cables with appropriate fasteners like velcro and tie-wraps. Support installations also involve constructing Chatsworth and Panduit structures within IDF/MDF rooms.

## **4. Cable Pulling**

Execute the pulling of Cat 6A plenum cables to a variety of data outlets across each location. This step includes termination with blue jacks, fitting faceplates, and

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conducting thorough testing and labeling.



## **Essential Materials**

- **Copper Cabling**

- Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)
- Commscope Cat 6A unshielded jack (blue)
- Commscope 2-port faceplate (white)
- Commscope blanks (white)
- Commscope 48-port Cat 6A flat patch panel, 2RU (black)
- Panduit strain relief bar
- Cat 6A patch cord, 1 ft
- Cat 6A patch cord, 10 ft

- **Fiber Cabling**

- Corning 12-strand tight buffered single-mode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)
- Corning 12F (OS2) duplex LC adapter panel
- Corning (OS2) LC Connectors
- Corning 1U fiber enclosure
- LC/APC - LC/APC Single-mode Duplex Patch Cable, 1M
- LC/APC - LC/APC Single-mode Duplex Patch Cable, 3M

- **Supporting Materials**

- Firestop putty
- STI Fire barrier sealant
- ICC 2" Batwing J-hook
- ICC 4" Batwing J-hook
- 3M Electric tapes
- 3/4" Velcro (75ft)
- Labeling kits

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### Proposed Timeline Table

School	Patch Panels	Cabling Days	Project Planning (Days)	Total Project Days
Arapahoe Ridge Elementary School	12	12	1	13
Eagleview Elementary School	10	10	1	11
Glacier Peak Elementary School	11	11	1	12
Prairie Hills Elementary School	8	8	1	9
Skyview Elementary School	7	7	1	8
Tarver Elementary School	7	7	1	8
Shadow Ridge Middle School	34	34	1	35
Silver Hills Middle School	27	27	1	28
Horizon High School	49	49	1	50
Mountain Range High School	42	42	1	43
Hunters Glen Elementary School	10	10	1	11
Century Middle School	24	24	1	25
<b>Total</b>	<b>241</b>	<b>241</b>	<b>12</b>	<b>253</b>

## **Firm Qualifications&Staff Experience**

Founded in 2014, SYSTEC101 has been a cornerstone in the telecommunications and structured cabling industry for over a decade. During this time, SYSTEC101 has cultivated a reputation for providing high-quality, customized information and communication technology (ICT) solutions to a wide array of clients, including both businesses and educational institutions. We have exhibited consistent growth, establishing ourselves as a dependable and innovative service provider in the industry, capable of handling projects of all sizes and complexities.

### **Qualifications**

SYSTEC101 possesses numerous industry-recognized certifications and an extensive portfolio of experience:

- **Certifications:** SYSTEC101 holds key certifications, including the Building Industry Consulting Service International (BICSI) and Registered Communications Distribution Designer (RCDD), which highlight the technical expertise and commitment to industry standards that SYSTEC101 brings to each project. These certifications demonstrate our adherence to best practices and our ability to design and implement cabling systems that meet or exceed industry benchmarks.
- **Experience:** With over 20 years of combined industry experience, the team at SYSTEC101 has been essential in implementing complex cabling projects across various sectors, including education, healthcare, government, and commercial. Our expertise guarantees that we are well-prepared to manage the complex requirements of modern communication networks and can customize our solutions to efficiently meet the specific needs of our clients. We have a proven track record of delivering projects on time and within budget, while maintaining the highest quality standards.

### **Financial Stability and Viability**

SYSTEC101's completion of large-scale projects and strong financial partnerships demonstrate its financial stability and operational viability:

- **Successful Project Completion:** The successful completion of major projects, such as installing over 1,000 Cat 6a cable runs for the Adams County School District 14, emphasizes our ability to manage and maintain substantial contracts. This project involved meticulous planning, coordination, and execution, and its success is a testament to our project management capabilities and technical proficiency.
- **Diverse Project Portfolio:** Our involvement in structured cabling for numerous educational and commercial facilities further suggests sound financial health and resource management, ensuring our ability to meet financial obligations. Our diverse project portfolio demonstrates our versatility and adaptability, as well as our ability to

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tailor our services to the unique requirements of each client and industry.

- **Established Partnerships:** Our established partnerships with suppliers like Graybar will ensure our ability to procure the necessary materials for this project at competitive prices and with reliable delivery schedules. These partnerships also provide us with access to the latest technologies and industry insights, enabling us to stay at the forefront of the telecommunications and structured cabling industry.

## Personnel and Staffing

The team assigned to this project consists of seasoned professionals whose detailed resumes highlight a dedication to excellence and technical skill:

- **Team Members:** Each team member offers a wealth of experience and specialized skills, with resumes accessible upon request, showcasing individual accomplishments, experience with past projects, and key competencies in structured cabling and project management. Our team members are not only highly skilled but also passionate about their work and committed to delivering exceptional results.
- **Staffing Plan:** The staffing plan encompasses roles such as Project Managers, Cabling Technicians, and Support Staff. Project Managers will supervise all project phases to guarantee adherence to timelines and quality standards, while Cabling Technicians will manage the hands-on installation work. Support Staff will furnish the necessary logistical and administrative support to ensure the project operates smoothly and efficiently. Our staffing plan is designed to be flexible and scalable, allowing us to adjust resources as needed to meet the demands of the project.



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**References:**

**1. Adams County School District 14**

**Project Name:** E-Rate, Wireless Access Point Cabling, and 10GB Fiber Optic Interconnect

**Contact Information:**

David Powell Network Administrator Adams County School District  
145291 East 60th Ave. Commerce City, CO 80022  
Cell: 303.853.3227 [dpowell@adams14.org](mailto:dpowell@adams14.org) [www.adams14.org](http://www.adams14.org)

**Industry of Organization:** County School District

**Project Accomplishments:**

- We have successfully installed over 1000 Cat 6a cable runs and fiber uplinks, ensuring unwavering connectivity throughout the school campuses.
- Gained valuable knowledge and experience in navigating the unique complexities of a school environment, which will be instrumental in successfully executing projects.

**Completion Date:** 2023

**Original Contract Amount:** \$367,994.00 **Completed Cost Amount:** \$367,994.00

**2. Rockland County Department of Social Services**

**Project Name:** RFP-RC-2024-006 - Access Point Installation for the Department of Social Services Building L

**Contact Information:**

Mark Navarro Network Administrator - Rockland County DSS50 Sanatorium Road - Building L Pomona, New York, 10970  
Cell: 845-364-3188 email: [mark.navarro@dfa.state.ny.us](mailto:mark.navarro@dfa.state.ny.us)

**Industry of Organization:** County government office.

**Project Accomplishments:**

- Completed the installation of network cabling for the newly implemented Wi-Fi system in the Rockland County Department of Social Services' "Access Point Installation for the Department of Social Services Building L" project (RFP-RC-2024-006).

**Completion Date:** 2024

**Original Contract Amount:** \$21,340.83 **Completed Cost Amount:** \$21,340.83

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### **3. Trinidad State College Student Housing Cabling Upgrade Project**

**Project Name:** TSC Cat6 Cabling (RCC)

**Contact Information:**

Terry Hindsman Purchasing Manager  
Cell: 720-858-2772 e-mail: [terry.hindsman@cccs.edu](mailto:terry.hindsman@cccs.edu)

**Industry of Organization:** State College Student Housing

**Project Accomplishments:**

- Successfully installed over 300 Cat6 cables in student housing facilities spread across four buildings, enhancing the college's infrastructure to provide reliable and high-speed internet connectivity for students residing in these buildings.

**Completion Date:** 2024

**Original Contract Amount:** \$135,716.19    **Completed Cost Amount:** \$135,716.19

**25-025 - Internal Connections-Structured Cabling (E-Rate) Bid**

**Base Proposal**

Date: 02/21/2025

SYSTEC101 will be providing the following:

Please note that based on General Contractor's request, SYSTEC101 will furnish and install data communications system to Adams 12 Five Star Schools

Please note that "The performing and bonding rate is not included in this proposal. If required, it will be a 2.7% additional charge from the value of the proposal"

**BASE BID**

School Name	Each School Total	
Arapahoe Ridge Elementary School	\$	108,860.46
Eagleview Elementary School	\$	100,148.55
Glacier Peak Elementary School	\$	81,617.38
Prairie Hills Elementary School	\$	98,374.81
Skyview Elementary School	\$	100,143.87
Tarver Elementary School	\$	106,626.46
Shadow Ridge Middle School	\$	277,009.25
Silver Hills Middle School	\$	296,533.30
Horizon High School	\$	400,076.01
Mountain Range High School	\$	379,459.87
Hunters Glen Elementary School	\$	115,111.83
Century Middle School	\$	245,036.97

Grand Total	\$	2,308,998.76
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**Scope of Work**

Systec will furnish and install data infrastructure for a total of (12) schools as mentioned below.

School Name	Site Address
Arapahoe Ridge Elementary School	13095 N Pecos St, Westminster, CO 80234, United States
Eagleview Elementary School	4601 Summit Grove Pkwy, Thornton, CO 80241, United States
Glacier Peak Elementary School	12060 Jasmine St, Brighton, CO 80602, United States
Prairie Hills Elementary School	13801 Garfield Pl, Thornton, CO 80602, United States
Skyview Elementary School	5021 EAST 123RD AVENUE THORNTON CO, 80241 -3203
Tarver Elementary School	3500 Summit Grove Pkwy, Thornton, CO 80241, United States
Shadow Ridge Middle School	12551 Holly St, Thornton, CO 80241, United States
Silver Hills Middle School	12400 Huron St, Westminster, CO 80234, United States
Horizon High School	5321 E 136th Ave, Thornton, CO 80602, United States
Mountain Range High School	12500 Huron St, Westminster, CO 80234, United States
Hunters Glen Elementary School	13222 Corona St, Thornton, CO 80241, United States
Century Middle School	13000 Lafayette St, Thornton, CO 80241, United States

**Arapahoe Ridge Elementary School:**

1. SYSTEC101 will furnish and install a total of (275) Cat 6A plenum cables (blue) for data to (275) outlets.
2. We will furnish and install (275) Cat 6A plenum cables (blue) for data to (275) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (1) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Eagleview Elementary School:**

1. SYSTEC101 will furnish and install a total of (263) Cat 6A plenum cables (blue) for data to (263) outlets.
2. We will furnish and install (263) Cat 6A plenum cables (blue) for data to (263) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. No Fiber optic cable is included for this school.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Glacier Peak Elementary School:**

1. SYSTEC101 will furnish and install a total of (195) Cat 6A plenum cables (blue) for data to (195) outlets.
2. We will furnish and install (195) Cat 6A plenum cables (blue) for data to (195) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (2) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Prairie Hills Elementary School:**

1. SYSTEC101 will furnish and install a total of (262) Cat 6A plenum cables (blue) for data to (262) outlets.
2. We will furnish and install (262) Cat 6A plenum cables (blue) for data to (262) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. No Fiber optic cable is included for this school.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Skyview Elementary School:**

1. SYSTEC101 will furnish and install a total of (268) Cat 6A plenum cables (blue) for data to (268) outlets.
2. We will furnish and install (268) Cat 6A plenum cables (blue) for data to (268) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. No Fiber optic cable is included for this school.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Tarver Elementary School:**

1. SYSTEC101 will furnish and install a total of (286) Cat 6A plenum cables (blue) for data to (286) outlets.
2. We will furnish and install (286) Cat 6A plenum cables (blue) for data to (286) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. No Fiber optic cable is included for this school.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Shadow Ridge Middle School:**

1. SYSTEC101 will furnish and install a total of (697) Cat 6A plenum cables (blue) for data to (697) outlets.
2. We will furnish and install (697) Cat 6A plenum cables (blue) for data to (697) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (7) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Silver Hills Middle School:**

1. SYSTEC101 will furnish and install a total of (767) Cat 6A plenum cables (blue) for data to (767) outlets.
2. We will furnish and install (767) Cat 6A plenum cables (blue) for data to (767) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (2) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Horizon High School:**

1. SYSTEC101 will furnish and install a total of (1011) Cat 6A plenum cables (blue) for data to (1011) outlets.
2. We will furnish and install (1011) Cat 6A plenum cables (blue) for data to (1011) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (6) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Mountain Range High School:**

1. SYSTEC101 will furnish and install a total of (987) Cat 6A plenum cables (blue) for data to (987) outlets.
2. We will furnish and install (987) Cat 6A plenum cables (blue) for data to (987) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (4) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Hunters Glen Elementary School:**

1. SYSTEC101 will furnish and install a total of (296) Cat 6A plenum cables (blue) for data to (296) outlets.
2. We will furnish and install (296) Cat 6A plenum cables (blue) for data to (296) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (1) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

**Century Middle School:**

1. SYSTEC101 will furnish and install a total of (623) Cat 6A plenum cables (blue) for data to (623) outlets.
2. We will furnish and install (623) Cat 6A plenum cables (blue) for data to (623) outlets.
3. Each data wall outlet gets (1) Cat 6A jack (blue) on a compatible faceplate (white).
4. All empty ports on faceplates will be covered using blanks.
5. Furnish and install (3) 12 strand singlemode fiber optic cable from MDF to IDF. Each 12 strand fiber optic cable will be provided with LC Connectors, Adapter Panels, Fiber LIUs and 4 Fiber jumpers at two different sizes.
6. J-Hooks will be installed as required to support traversal of the cable bundle.
7. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

#### IDF/MDF room:

1. We will furnish and install 48-port Cat6A flat unshielded patch panel (black) and strain relief bar rear of the patch panel. All Cat 6 cables will be terminated in these newly installed patch panels.

#### Common:

1. We will provide Cat 6A patch cord, 1 ft (blue) at IDF/MDF room end.
2. We will provide Cat 6A patch cord, 10 ft (blue) at User end.
3. All patch panels will be provided with strain relief bar.
4. All cabling will be secured using velcro, tie-wraps and other necessary supporting material.

#### Common:

1. SYSTEC101 will install, terminate, test and label all the cables provided above.
2. All labeling will be machine printed.
3. All the penetrations made for the installation of telecommunication cables will be firestopped using putty and sealant.
4. All terminations and testing will be done as per TIA/EIA/BICSI standards.
5. We will provide the Owner with closeouts (test results and as-builts) at the end of the project.
6. We will demo all the existing cables.

#### Scope of work by others:

1. All 110 VAC, conduit, coring, stub-ups, single device cover, junction boxes, and structural reinforcement.
2. Adequate on-site storage will be provided.
3. Furnishing and installation of network equipment (switches, SFPs, uplink patch cords and servers) and ISP link (firewall, routers and demarc extension).
4. Furnishing and installation of HVAC and electrical systems in the IDF/MDF Room.
5. Furnishing and installation of Empty conduits and stub up conduits.

#### Qualifications:

1. Due to extreme price fluctuations, we can only hold the material pricing for 60 days. Any material price hikes after 60 days will be borne by the client.
- 2 All work is to be performed during regular working hours, unless otherwise noted.
3. If required, stub ups, conduit and coring are to be provided by customer.
4. Pricing does not include any surface raceways, wiremold, power poles, UPS and PDUs or any scope of work related to security, networking equipments.
5. SYSTEC101 must have proper access to all areas necessary to complete the project in a timely fashion.
6. No demo, cutover, ISP link, network equipment and its related accessories (SFPs, aggregators, and uplink patch cords) is included in this proposal.
7. Based on Commscope cabling solution.
8. Any additional labor or material required beyond the scope of this proposal will be done on a change order, signed by a customer representative.
9. Furnishing and installation of cables for the TV system, WAP system, and video surveillance system, exclusively at the facility, along with Transportation.
10. Pricing does not include any cable tray or its related products.
11. Conduits should be made ready prior to cabling installation.
12. No copper backbone cabling is included in this proposal.
13. Uplinking the entire network using active electronics by others. We will only provide empty network infrastructure, powering the network using network equipment and routers, and connecting them to ISP link is responsible by owner or ISP.
14. The conduits, conduit sleeving, conduit rough-in to be provided by the electrical contractor.
15. All to be existing - fire rated plywood backboards and telecommunications grounding busbars at MDF/IDF rooms end. If necessary, a new changed order will be proposed.
16. All Equipment rack and wire management to be existing. All other Network Equipment to be owner furnished and owner installed.

#### Arapahoe Ridge Elementary School Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	62000	\$ 0.67	\$ -	\$ 0.67	\$ 41,354.00
760241141	Commscope Cat 6A unshielded jack (blue)	275	\$ 9.90	\$ -	\$ 9.90	\$ 2,722.91
M12L-262	Commscope 2-port faceplate (white)	275	\$ 2.30	\$ -	\$ 2.30	\$ 632.50
107067928	Commscope blanks (white)	275	\$ 0.52	\$ -	\$ 0.52	\$ 142.31
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	11	\$ 471.50	\$ -	\$ 471.50	\$ 5,186.50
SRB19BLY	Panduit strain relief bar	11	\$ 24.30	\$ -	\$ 24.30	\$ 267.29
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	275	\$ 5.18	\$ -	\$ 5.18	\$ 1,423.13
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	275	\$ 17.25	\$ -	\$ 17.25	\$ 4,743.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	650	\$ 1.30	\$ -	\$ 1.30	\$ 844.68
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	2	\$ 132.25	\$ -	\$ 132.25	\$ 264.50
95-200-99	Corning (OS2) LC Connectors	24	\$ 20.64	\$ -	\$ 20.64	\$ 495.42
CCH-01U	Corning 1U fiber enclosure	2	\$ 312.89	\$ -	\$ 312.89	\$ 625.78
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	4	\$ 23.00	\$ -	\$ 23.00	\$ 92.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	4	\$ 34.50	\$ -	\$ 34.50	\$ 138.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	11	\$ 35.57	\$ -	\$ 35.57	\$ 391.26
SSS100	STI Fire barrier sealant	11	\$ 20.40	\$ -	\$ 20.40	\$ 224.41
ICCMSJIHW44	ICC 2" Batwing J-hook	300	\$ 3.60	\$ -	\$ 3.60	\$ 1,079.85
ICCMSJIHW55	ICC 4" Batwing J-hook	200	\$ 5.22	\$ -	\$ 5.22	\$ 1,044.20
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 575.00	\$ -	\$ 575.00	\$ 575.00
N/A	Miscellaneous cost	1	\$ 3,162.50	\$ -	\$ 3,162.50	\$ 3,162.50
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	514	\$ -	\$ 80.00	\$ 80.00	\$ 41,120.00
N/A	Project Management and Handling Charges	24	\$ -	\$ 80.00	\$ 80.00	\$ 1,920.00

Total: Equipment \$ 65,820.46

Total: Labor \$ 43,040.00

Grand Total \$ 108,860.46

#### Eagleview Elementary School Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	60000	\$ 0.67	\$ -	\$ 0.67	\$ 40,020.00

760241141	Commscope Cat 6A unshielded jack (blue)	263	\$ 9.90	\$ -	\$ 9.90	\$ 2,604.09
M12L-262	Commscope 2-port faceplate (white)	263	\$ 2.30	\$ -	\$ 2.30	\$ 604.90
107067928	Commscope blanks (white)	263	\$ 0.52	\$ -	\$ 0.52	\$ 136.10
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	10	\$ 471.50	\$ -	\$ 471.50	\$ 4,715.00
SRB19BLY	Panduit strain relief bar	10	\$ 24.30	\$ -	\$ 24.30	\$ 243.00
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	263	\$ 5.18	\$ -	\$ 5.18	\$ 1,361.03
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	263	\$ 17.25	\$ -	\$ 17.25	\$ 4,536.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	0	\$ 1.30	\$ -	\$ 1.30	\$ -
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	0	\$ 132.25	\$ -	\$ 132.25	\$ -
95-200-99	Corning (OS2) LC Connectors	0	\$ 20.64	\$ -	\$ 20.64	\$ -
CCH-01U	Corning 1U fiber enclosure	0	\$ 312.89	\$ -	\$ 312.89	\$ -
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	0	\$ 23.00	\$ -	\$ 23.00	\$ -
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	0	\$ 34.50	\$ -	\$ 34.50	\$ -
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	11	\$ 35.57	\$ -	\$ 35.57	\$ 391.26
SSS100	STI Fire barrier sealant	11	\$ 20.40	\$ -	\$ 20.40	\$ 224.41
ICCMSJIHW44	ICC 2" Batwing J-hook	300	\$ 3.60	\$ -	\$ 3.60	\$ 1,079.85
ICCMSJIHW55	ICC 4" Batwing J-hook	200	\$ 5.22	\$ -	\$ 5.22	\$ 1,044.20
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 575.00	\$ -	\$ 575.00	\$ 575.00
N/A	Miscellaneous cost	1	\$ 3,162.50	\$ -	\$ 3,162.50	\$ 3,162.50
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	464	\$ -	\$ 80.00	\$ 80.00	\$ 37,120.00
N/A	Project Management and Handling Charges	24	\$ -	\$ 80.00	\$ 80.00	\$ 1,920.00
Total: Equipment						\$ 61,108.55
Total: Labor						\$ 39,040.00
Grand Total						\$ 100,148.55

Glacier Peak Elementary School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	44000	\$ 0.67	\$ -	\$ 0.67	\$ 29,348.00
760241141	Commscope Cat 6A unshielded jack (blue)	195	\$ 9.90	\$ -	\$ 9.90	\$ 1,930.79
M12L-262	Commscope 2-port faceplate (white)	195	\$ 2.30	\$ -	\$ 2.30	\$ 448.50
107067928	Commscope blanks (white)	195	\$ 0.52	\$ -	\$ 0.52	\$ 100.91
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	9	\$ 471.50	\$ -	\$ 471.50	\$ 4,243.50
SRB19BLY	Panduit strain relief bar	9	\$ 24.30	\$ -	\$ 24.30	\$ 218.70
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	195	\$ 5.18	\$ -	\$ 5.18	\$ 1,009.13
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	195	\$ 17.25	\$ -	\$ 17.25	\$ 3,363.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	1100	\$ 1.30	\$ -	\$ 1.30	\$ 1,429.45
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	4	\$ 132.25	\$ -	\$ 132.25	\$ 529.00
95-200-99	Corning (OS2) LC Connectors	48	\$ 20.64	\$ -	\$ 20.64	\$ 990.84
CCH-01U	Corning 1U fiber enclosure	4	\$ 312.89	\$ -	\$ 312.89	\$ 1,251.57
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	8	\$ 23.00	\$ -	\$ 23.00	\$ 184.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	8	\$ 34.50	\$ -	\$ 34.50	\$ 276.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	8	\$ 35.57	\$ -	\$ 35.57	\$ 284.56
SSS100	STI Fire barrier sealant	8	\$ 20.40	\$ -	\$ 20.40	\$ 163.21
ICCMSJIHW44	ICC 2" Batwing J-hook	200	\$ 3.60	\$ -	\$ 3.60	\$ 719.90
ICCMSJIHW55	ICC 4" Batwing J-hook	125	\$ 5.22	\$ -	\$ 5.22	\$ 652.63
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 402.50	\$ -	\$ 402.50	\$ 402.50
N/A	Miscellaneous cost	1	\$ 2,300.00	\$ -	\$ 2,300.00	\$ 2,300.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	376	\$ -	\$ 80.00	\$ 80.00	\$ 30,080.00
N/A	Project Management and Handling Charges	16	\$ -	\$ 80.00	\$ 80.00	\$ 1,280.00
Total: Equipment						\$ 50,257.38
Total: Labor						\$ 31,360.00
						\$ 81,617.38

Prairie Hills Elementary School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	59000	\$ 0.67	\$ -	\$ 0.67	\$ 39,353.00
760241141	Commscope Cat 6A unshielded jack (blue)	262	\$ 9.90	\$ -	\$ 9.90	\$ 2,594.19
M12L-262	Commscope 2-port faceplate (white)	262	\$ 2.30	\$ -	\$ 2.30	\$ 602.60
107067928	Commscope blanks (white)	262	\$ 0.52	\$ -	\$ 0.52	\$ 135.59
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	8	\$ 471.50	\$ -	\$ 471.50	\$ 3,772.00
SRB19BLY	Panduit strain relief bar	8	\$ 24.30	\$ -	\$ 24.30	\$ 194.40
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	262	\$ 5.18	\$ -	\$ 5.18	\$ 1,355.85
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	262	\$ 17.25	\$ -	\$ 17.25	\$ 4,519.50
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	0	\$ 1.30	\$ -	\$ 1.30	\$ -
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	0	\$ 132.25	\$ -	\$ 132.25	\$ -
95-200-99	Corning (OS2) LC Connectors	0	\$ 20.64	\$ -	\$ 20.64	\$ -
CCH-01U	Corning 1U fiber enclosure	0	\$ 312.89	\$ -	\$ 312.89	\$ -

J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	0	\$ 23.00	\$ -	\$ 23.00	\$ -
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	0	\$ 34.50	\$ -	\$ 34.50	\$ -
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	11	\$ 35.57	\$ -	\$ 35.57	\$ 391.26
SSS100	STI Fire barrier sealant	11	\$ 20.40	\$ -	\$ 20.40	\$ 224.41
ICCMSJHW44	ICC 2" Batwing J-hook	300	\$ 3.60	\$ -	\$ 3.60	\$ 1,079.85
ICCMSJHW55	ICC 4" Batwing J-hook	200	\$ 5.22	\$ -	\$ 5.22	\$ 1,044.20
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 575.00	\$ -	\$ 575.00	\$ 575.00
N/A	Miscellaneous cost	1	\$ 3,162.50	\$ -	\$ 3,162.50	\$ 3,162.50
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	463	\$ -	\$ 80.00	\$ 80.00	\$ 37,040.00
N/A	Project Management and Handling Charges	24	\$ -	\$ 80.00	\$ 80.00	\$ 1,920.00
Total: Equipment						\$ 59,414.81
Total: Labor						\$ 38,960.00
						\$ 98,374.81

Skyview Elementary School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	61000	\$ 0.67	\$ -	\$ 0.67	\$ 40,687.00
760241141	Commscope Cat 6A unshielded jack (blue)	268	\$ 9.90	\$ -	\$ 9.90	\$ 2,653.60
M12L-262	Commscope 2-port faceplate (white)	268	\$ 2.30	\$ -	\$ 2.30	\$ 616.40
107067928	Commscope blanks (white)	268	\$ 0.52	\$ -	\$ 0.52	\$ 138.69
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	7	\$ 471.50	\$ -	\$ 471.50	\$ 3,300.50
SRB19BLY	Panduit strain relief bar	7	\$ 24.30	\$ -	\$ 24.30	\$ 170.10
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	268	\$ 5.18	\$ -	\$ 5.18	\$ 1,386.90
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	268	\$ 17.25	\$ -	\$ 17.25	\$ 4,623.00
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	0	\$ 1.30	\$ -	\$ 1.30	\$ -
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	0	\$ 132.25	\$ -	\$ 132.25	\$ -
95-200-99	Corning (OS2) LC Connectors	0	\$ 20.64	\$ -	\$ 20.64	\$ -
CCH-01U	Corning 1U fiber enclosure	0	\$ 312.89	\$ -	\$ 312.89	\$ -
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	0	\$ 23.00	\$ -	\$ 23.00	\$ -
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	0	\$ 34.50	\$ -	\$ 34.50	\$ -
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	11	\$ 35.57	\$ -	\$ 35.57	\$ 391.26
SSS100	STI Fire barrier sealant	11	\$ 20.40	\$ -	\$ 20.40	\$ 224.41
ICCMSJHW44	ICC 2" Batwing J-hook	300	\$ 3.60	\$ -	\$ 3.60	\$ 1,079.85
ICCMSJHW55	ICC 4" Batwing J-hook	200	\$ 5.22	\$ -	\$ 5.22	\$ 1,044.20
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 575.00	\$ -	\$ 575.00	\$ 575.00
N/A	Miscellaneous cost	1	\$ 3,162.50	\$ -	\$ 3,162.50	\$ 3,162.50
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	472	\$ -	\$ 80.00	\$ 80.00	\$ 37,760.00
N/A	Project Management and Handling Charges	24	\$ -	\$ 80.00	\$ 80.00	\$ 1,920.00
Total: Equipment						\$ 60,463.87
Total: Labor						\$ 39,680.00
						\$ 100,143.87

Tarver Elementary School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	66000	\$ 0.67	\$ -	\$ 0.67	\$ 44,022.00
760241141	Commscope Cat 6A unshielded jack (blue)	286	\$ 9.90	\$ -	\$ 9.90	\$ 2,831.83
M12L-262	Commscope 2-port faceplate (white)	286	\$ 2.30	\$ -	\$ 2.30	\$ 657.80
107067928	Commscope blanks (white)	286	\$ 0.52	\$ -	\$ 0.52	\$ 148.01
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	7	\$ 471.50	\$ -	\$ 471.50	\$ 3,300.50
SRB19BLY	Panduit strain relief bar	7	\$ 24.30	\$ -	\$ 24.30	\$ 170.10
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	286	\$ 5.18	\$ -	\$ 5.18	\$ 1,480.05
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	286	\$ 17.25	\$ -	\$ 17.25	\$ 4,933.50
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	0	\$ 1.30	\$ -	\$ 1.30	\$ -
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	0	\$ 132.25	\$ -	\$ 132.25	\$ -
95-200-99	Corning (OS2) LC Connectors	0	\$ 20.64	\$ -	\$ 20.64	\$ -
CCH-01U	Corning 1U fiber enclosure	0	\$ 312.89	\$ -	\$ 312.89	\$ -
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	0	\$ 23.00	\$ -	\$ 23.00	\$ -
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	0	\$ 34.50	\$ -	\$ 34.50	\$ -
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	11	\$ 35.57	\$ -	\$ 35.57	\$ 391.26
SSS100	STI Fire barrier sealant	11	\$ 20.40	\$ -	\$ 20.40	\$ 224.41
ICCMSJHW44	ICC 2" Batwing J-hook	300	\$ 3.60	\$ -	\$ 3.60	\$ 1,079.85
ICCMSJHW55	ICC 4" Batwing J-hook	200	\$ 5.22	\$ -	\$ 5.22	\$ 1,044.20
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 575.00	\$ -	\$ 575.00	\$ 575.00
N/A	Miscellaneous cost	1	\$ 3,277.50	\$ -	\$ 3,277.50	\$ 3,277.50
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price

N/A	Labor for completing the stated Scope of Work	502	\$ -	\$ 80.00	\$ 80.00	\$ 40,160.00
N/A	Project Management and Handling Charges	24	\$ -	\$ 80.00	\$ 80.00	\$ 1,920.00
Total: Equipment						\$ 64,546.46
Total: Labor						\$ 42,080.00
						\$ 106,626.46

Shadow Ridge Middle School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	157000	\$ 0.67	\$ -	\$ 0.67	\$ 104,719.00
760241141	Commscope Cat 6A unshielded jack (blue)	697	\$ 9.90	\$ -	\$ 9.90	\$ 6,901.35
M12L-262	Commscope 2-port faceplate (white)	697	\$ 2.30	\$ -	\$ 2.30	\$ 1,603.10
107067928	Commscope blanks (white)	697	\$ 0.52	\$ -	\$ 0.52	\$ 360.70
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	27	\$ 471.50	\$ -	\$ 471.50	\$ 12,730.50
SRB19BLY	Panduit strain relief bar	27	\$ 24.30	\$ -	\$ 24.30	\$ 656.09
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	697	\$ 5.18	\$ -	\$ 5.18	\$ 3,606.98
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	697	\$ 17.25	\$ -	\$ 17.25	\$ 12,023.25
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	4000	\$ 1.30	\$ -	\$ 1.30	\$ 5,198.00
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	14	\$ 132.25	\$ -	\$ 132.25	\$ 1,851.50
95-200-99	Corning (OS2) LC Connectors	168	\$ 20.64	\$ -	\$ 20.64	\$ 3,467.94
CCH-01U	Corning 1U fiber enclosure	14	\$ 312.89	\$ -	\$ 312.89	\$ 4,380.49
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	28	\$ 23.00	\$ -	\$ 23.00	\$ 644.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	28	\$ 34.50	\$ -	\$ 34.50	\$ 966.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	22	\$ 35.57	\$ -	\$ 35.57	\$ 782.53
SSS100	STI Fire barrier sealant	22	\$ 20.40	\$ -	\$ 20.40	\$ 448.82
ICCMSJHW44	ICC 2" Batwing J-hook	600	\$ 3.60	\$ -	\$ 3.60	\$ 2,159.70
ICCMSJHW55	ICC 4" Batwing J-hook	400	\$ 5.22	\$ -	\$ 5.22	\$ 2,088.40
1700-1PK-BB40	3M Electric tapes	20	\$ 3.43	\$ -	\$ 3.43	\$ 68.54
30987	3/4" Velcro (75ft)	12	\$ 31.51	\$ -	\$ 31.51	\$ 378.12
PLT3I-C	Panduit Tie wraps (100/bag)	12	\$ 31.19	\$ -	\$ 31.19	\$ 374.26
N/A	Labeling kits	1	\$ 1,150.00	\$ -	\$ 1,150.00	\$ 1,150.00
N/A	Miscellaneous cost	1	\$ 8,050.00	\$ -	\$ 8,050.00	\$ 8,050.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	1216	\$ -	\$ 80.00	\$ 80.00	\$ 97,280.00
N/A	Project Management and Handling Charges	64	\$ -	\$ 80.00	\$ 80.00	\$ 5,120.00
Total: Equipment						\$ 174,609.25
Total: Labor						\$ 102,400.00
						\$ 277,009.25

Silver Hills Middle School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	172000	\$ 0.67	\$ -	\$ 0.67	\$ 114,724.00
760241141	Commscope Cat 6A unshielded jack (blue)	767	\$ 9.90	\$ -	\$ 9.90	\$ 7,594.45
M12L-262	Commscope 2-port faceplate (white)	767	\$ 2.30	\$ -	\$ 2.30	\$ 1,764.10
107067928	Commscope blanks (white)	767	\$ 0.52	\$ -	\$ 0.52	\$ 396.92
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	26	\$ 471.50	\$ -	\$ 471.50	\$ 12,259.00
SRB19BLY	Panduit strain relief bar	26	\$ 24.30	\$ -	\$ 24.30	\$ 631.79
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	767	\$ 5.18	\$ -	\$ 5.18	\$ 3,969.23
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	767	\$ 17.25	\$ -	\$ 17.25	\$ 13,230.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	1400	\$ 1.30	\$ -	\$ 1.30	\$ 1,819.30
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	2	\$ 132.25	\$ -	\$ 132.25	\$ 264.50
95-200-99	Corning (OS2) LC Connectors	48	\$ 20.64	\$ -	\$ 20.64	\$ 990.84
CCH-01U	Corning 1U fiber enclosure	2	\$ 312.89	\$ -	\$ 312.89	\$ 625.78
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	8	\$ 23.00	\$ -	\$ 23.00	\$ 184.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	8	\$ 34.50	\$ -	\$ 34.50	\$ 276.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	25	\$ 35.57	\$ -	\$ 35.57	\$ 889.24
SSS100	STI Fire barrier sealant	25	\$ 20.40	\$ -	\$ 20.40	\$ 510.03
ICCMSJHW44	ICC 2" Batwing J-hook	800	\$ 3.60	\$ -	\$ 3.60	\$ 2,879.60
ICCMSJHW55	ICC 4" Batwing J-hook	500	\$ 5.22	\$ -	\$ 5.22	\$ 2,610.50
1700-1PK-BB40	3M Electric tapes	30	\$ 3.43	\$ -	\$ 3.43	\$ 102.81
30987	3/4" Velcro (75ft)	15	\$ 31.51	\$ -	\$ 31.51	\$ 472.65
PLT3I-C	Panduit Tie wraps (100/bag)	15	\$ 31.19	\$ -	\$ 31.19	\$ 467.82
N/A	Labeling kits	1	\$ 1,150.00	\$ -	\$ 1,150.00	\$ 1,150.00
N/A	Miscellaneous cost	1	\$ 9,200.00	\$ -	\$ 9,200.00	\$ 9,200.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	1414	\$ -	\$ 80.00	\$ 80.00	\$ 113,120.00
N/A	Project Management and Handling Charges	80	\$ -	\$ 80.00	\$ 80.00	\$ 6,400.00
Total: Equipment						\$ 177,013.30
Total: Labor						\$ 119,520.00
						\$ 296,533.30

Horizon High School



## Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	220000	\$ 0.67	\$ -	0.67	\$ 146,740.00
760241141	Commscope Cat 6A unshielded jack (blue)	1011	\$ 9.90	\$ -	9.90	\$ 10,010.42
M12L-262	Commscope 2-port faceplate (white)	1011	\$ 2.30	\$ -	2.30	\$ 2,325.30
107067928	Commscope blanks (white)	1011	\$ 0.52	\$ -	0.52	\$ 523.19
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	43	\$ 471.50	\$ -	471.50	\$ 20,274.50
SRB19BLY	Panduit strain relief bar	43	\$ 24.30	\$ -	24.30	\$ 1,044.88
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	1011	\$ 5.18	\$ -	5.18	\$ 5,231.93
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	1011	\$ 17.25	\$ -	17.25	\$ 17,439.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	4000	\$ 1.30	\$ -	1.30	\$ 5,198.00
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	12	\$ 132.25	\$ -	132.25	\$ 1,587.00
95-200-99	Corning (OS2) LC Connectors	144	\$ 20.64	\$ -	20.64	\$ 2,972.52
CCH-01U	Corning 1U fiber enclosure	12	\$ 312.89	\$ -	312.89	\$ 3,754.70
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	24	\$ 23.00	\$ -	23.00	\$ 552.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	24	\$ 34.50	\$ -	34.50	\$ 828.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	30	\$ 35.57	\$ -	35.57	\$ 1,067.09
SSS100	STI Fire barrier sealant	30	\$ 20.40	\$ -	20.40	\$ 612.03
ICCMSJHW44	ICC 2" Batwing J-hook	1000	\$ 3.60	\$ -	3.60	\$ 3,599.50
ICCMSJHW55	ICC 4" Batwing J-hook	600	\$ 5.22	\$ -	5.22	\$ 3,132.60
1700-1PK-BB40	3M Electric tapes	45	\$ 3.43	\$ -	3.43	\$ 154.22
30987	3/4" Velcro (75ft)	25	\$ 31.51	\$ -	31.51	\$ 787.75
PLT3I-C	Panduit Tie wraps (100/bag)	30	\$ 31.19	\$ -	31.19	\$ 935.64
N/A	Labeling kits	1	\$ 1,725.00	\$ -	1,725.00	\$ 1,725.00
N/A	Miscellaneous cost	1	\$ 11,500.00	\$ -	11,500.00	\$ 11,500.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	1864	\$ -	\$ 80.00	80.00	\$ 149,120.00
N/A	Project Management and Handling Charges	112	\$ -	\$ 80.00	80.00	\$ 8,960.00

Total: Equipment \$ 241,996.01

Total: Labor \$ 158,080.00

\$ 400,076.01

## Mountain Range High School

## Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	216000	\$ 0.67	\$ -	0.67	\$ 144,072.00
760241141	Commscope Cat 6A unshielded jack (blue)	987	\$ 9.90	\$ -	9.90	\$ 9,772.78
M12L-262	Commscope 2-port faceplate (white)	987	\$ 2.30	\$ -	2.30	\$ 2,270.10
107067928	Commscope blanks (white)	987	\$ 0.52	\$ -	0.52	\$ 510.77
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	38	\$ 471.50	\$ -	471.50	\$ 17,917.00
SRB19BLY	Panduit strain relief bar	38	\$ 24.30	\$ -	24.30	\$ 923.38
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	987	\$ 5.18	\$ -	5.18	\$ 5,107.73
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	987	\$ 17.25	\$ -	17.25	\$ 17,025.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	2550	\$ 1.30	\$ -	1.30	\$ 3,313.73
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	8	\$ 132.25	\$ -	132.25	\$ 1,058.00
95-200-99	Corning (OS2) LC Connectors	96	\$ 20.64	\$ -	20.64	\$ 1,981.68
CCH-01U	Corning 1U fiber enclosure	8	\$ 312.89	\$ -	312.89	\$ 2,503.14
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	32	\$ 23.00	\$ -	23.00	\$ 736.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	32	\$ 34.50	\$ -	34.50	\$ 1,104.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	30	\$ 35.57	\$ -	35.57	\$ 1,067.09
SSS100	STI Fire barrier sealant	30	\$ 20.40	\$ -	20.40	\$ 612.03
ICCMSJHW44	ICC 2" Batwing J-hook	1000	\$ 3.60	\$ -	3.60	\$ 3,599.50
ICCMSJHW55	ICC 4" Batwing J-hook	600	\$ 5.22	\$ -	5.22	\$ 3,132.60
1700-1PK-BB40	3M Electric tapes	45	\$ 3.43	\$ -	3.43	\$ 154.22
30987	3/4" Velcro (75ft)	25	\$ 31.51	\$ -	31.51	\$ 787.75
PLT3I-C	Panduit Tie wraps (100/bag)	30	\$ 31.19	\$ -	31.19	\$ 935.64
N/A	Labeling kits	1	\$ 1,725.00	\$ -	1,725.00	\$ 1,725.00
N/A	Miscellaneous cost	1	\$ 10,350.00	\$ -	10,350.00	\$ 10,350.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	1764	\$ -	\$ 80.00	80.00	\$ 141,120.00
N/A	Project Management and Handling Charges	96	\$ -	\$ 80.00	80.00	\$ 7,680.00

Total: Equipment \$ 230,659.87

Total: Labor \$ 148,800.00

\$ 379,459.87

## Hunters Glen Elementary School

## Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	67000	\$ 0.67	\$ -	0.67	\$ 44,689.00
760241141	Commscope Cat 6A unshielded jack (blue)	296	\$ 9.90	\$ -	9.90	\$ 2,930.84
M12L-262	Commscope 2-port faceplate (white)	296	\$ 2.30	\$ -	2.30	\$ 680.80
107067928	Commscope blanks (white)	296	\$ 0.52	\$ -	0.52	\$ 153.18
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	9	\$ 471.50	\$ -	471.50	\$ 4,243.50
SRB19BLY	Panduit strain relief bar	9	\$ 24.30	\$ -	24.30	\$ 218.70
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	296	\$ 5.18	\$ -	5.18	\$ 1,531.80
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	296	\$ 17.25	\$ -	17.25	\$ 5,106.00
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber optic cable (per ft)	750	\$ 1.30	\$ -	1.30	\$ 974.63
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	2	\$ 132.25	\$ -	132.25	\$ 264.50

95-200-99	Corning (OS2) LC Connectors	24	\$ 20.64	\$ -	\$ 20.64	\$ 495.42
CCH-01U	Corning 1U fiber enclosure	2	\$ 312.89	\$ -	\$ 312.89	\$ 625.78
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	4	\$ 23.00	\$ -	\$ 23.00	\$ 92.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	4	\$ 34.50	\$ -	\$ 34.50	\$ 138.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	11	\$ 35.57	\$ -	\$ 35.57	\$ 391.26
SSS100	STI Fire barrier sealant	11	\$ 20.40	\$ -	\$ 20.40	\$ 224.41
ICCMSJIHW44	ICC 2" Batwing J-hook	300	\$ 3.60	\$ -	\$ 3.60	\$ 1,079.85
ICCMSJIHW55	ICC 4" Batwing J-hook	200	\$ 5.22	\$ -	\$ 5.22	\$ 1,044.20
1700-1PK-BB40	3M Electric tapes	10	\$ 3.43	\$ -	\$ 3.43	\$ 34.27
30987	3/4" Velcro (75ft)	6	\$ 31.51	\$ -	\$ 31.51	\$ 189.06
PLT3I-C	Panduit Tie wraps (100/bag)	6	\$ 31.19	\$ -	\$ 31.19	\$ 187.13
N/A	Labeling kits	1	\$ 575.00	\$ -	\$ 575.00	\$ 575.00
N/A	Miscellaneous cost	1	\$ 3,162.50	\$ -	\$ 3,162.50	\$ 3,162.50
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	552	\$ -	\$ 80.00	\$ 80.00	\$ 44,160.00
N/A	Project Management and Handling Charges	24	\$ -	\$ 80.00	\$ 80.00	\$ 1,920.00
Total: Equipment						\$ 69,031.83
Total: Labor						\$ 46,080.00
						\$ 115,111.83

Century Middle School  
Equipment and Labor

Part Number	Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
UN874035104/10	Commscope Category 6A U/UTP Cable, plenum, blue jacket (per ft)	140000	\$ 0.67	\$ -	\$ 0.67	\$ 93,380.00
760241141	Commscope Cat 6A unshielded jack (blue)	623	\$ 9.90	\$ -	\$ 9.90	\$ 6,168.63
M12L-262	Commscope 2-port faceplate (white)	623	\$ 2.30	\$ -	\$ 2.30	\$ 1,432.90
107067928	Commscope blanks (white)	623	\$ 0.52	\$ -	\$ 0.52	\$ 322.40
Part Number	IDF/MDF room Buildout	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
760162818	Commscope 48-port Cat 6A flat patch panel, 2RU (black)	23	\$ 471.50	\$ -	\$ 471.50	\$ 10,844.50
SRB19BLY	Panduit strain relief bar	23	\$ 24.30	\$ -	\$ 24.30	\$ 558.89
UC1AAA2-09F01	Cat 6A patch cord, 1 ft	623	\$ 5.18	\$ -	\$ 5.18	\$ 3,224.03
UC1AAA2-09F010	Cat 6A patch cord, 10 ft	623	\$ 17.25	\$ -	\$ 17.25	\$ 10,746.75
Part Number	Backbone Cabling	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
012E8P-31131-29	Corning 12-strand tight buffered singlemode (OS2) indoor/outdoor plenum rated fiber	950	\$ 1.30	\$ -	\$ 1.30	\$ 1,234.53
CCH-CP12-A9	Corning 12F (OS2) duplex LC adapter panel	3	\$ 132.25	\$ -	\$ 132.25	\$ 396.75
95-200-99	Corning (OS2) LC Connectors	36	\$ 20.64	\$ -	\$ 20.64	\$ 743.13
CCH-01U	Corning 1U fiber enclosure	3	\$ 312.89	\$ -	\$ 312.89	\$ 938.68
J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	6	\$ 23.00	\$ -	\$ 23.00	\$ 138.00
J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	6	\$ 34.50	\$ -	\$ 34.50	\$ 207.00
Part Number	Supporting Materials	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
SSP100	Firestop putty	22	\$ 35.57	\$ -	\$ 35.57	\$ 782.53
SSS100	STI Fire barrier sealant	22	\$ 20.40	\$ -	\$ 20.40	\$ 448.82
ICCMSJIHW44	ICC 2" Batwing J-hook	500	\$ 3.60	\$ -	\$ 3.60	\$ 1,799.75
ICCMSJIHW55	ICC 4" Batwing J-hook	300	\$ 5.22	\$ -	\$ 5.22	\$ 1,566.30
1700-1PK-BB40	3M Electric tapes	15	\$ 3.43	\$ -	\$ 3.43	\$ 51.41
30987	3/4" Velcro (75ft)	10	\$ 31.51	\$ -	\$ 31.51	\$ 315.10
PLT3I-C	Panduit Tie wraps (100/bag)	10	\$ 31.19	\$ -	\$ 31.19	\$ 311.88
N/A	Labeling kits	1	\$ 1,150.00	\$ -	\$ 1,150.00	\$ 1,150.00
N/A	Miscellaneous cost	1	\$ 7,475.00	\$ -	\$ 7,475.00	\$ 7,475.00
Part Number	Labor	Quantity	Material Price	Labor Cost	Unit Price	Ext.Price
N/A	Labor for completing the stated Scope of Work	1164	\$ -	\$ 80.00	\$ 80.00	\$ 93,120.00
N/A	Project Management and Handling Charges	96	\$ -	\$ 80.00	\$ 80.00	\$ 7,680.00
Total: Equipment						\$ 144,236.97
Total: Labor						\$ 100,800.00
						\$ 245,036.97

**Business Name:** Systec101  
**Authorized Representative:** Murat Yildirim  
**Title:** Founder  
**Signature:**   
**Date:** 02/21/2025

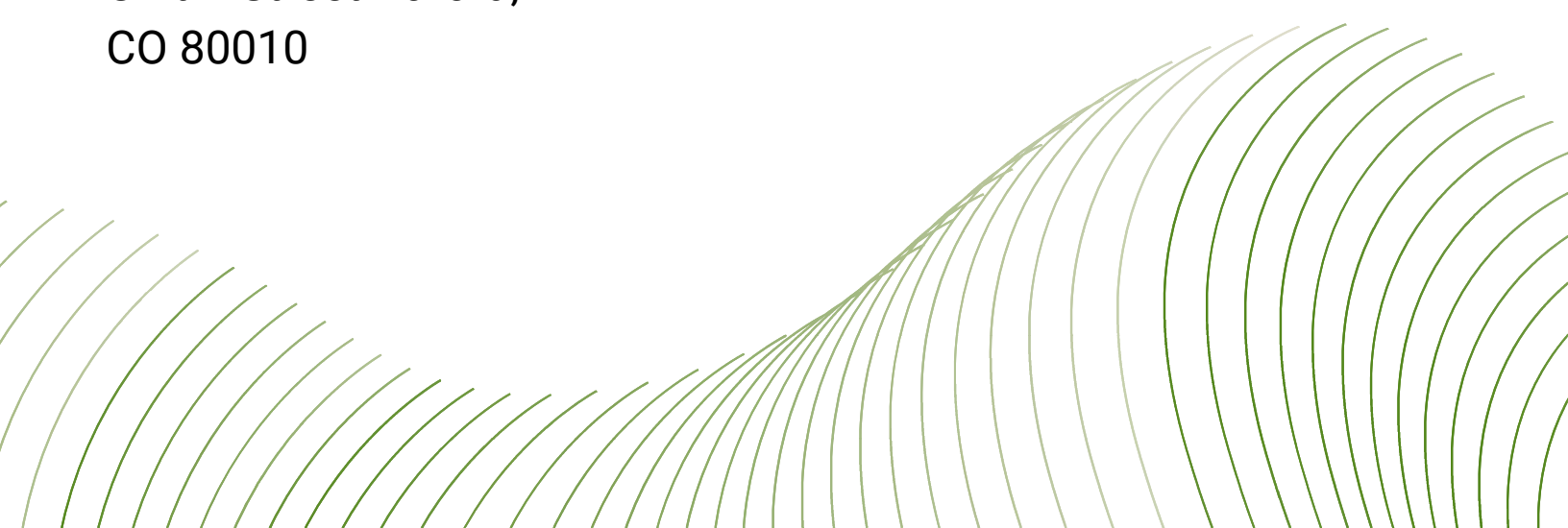
## **25-025 - Internal Connections-Structured Cabling**

### **SUBJECT**

Structured Cabling - Product Submittal.

### **PREPARED BY**

SYSTEC101  
11871 E 33rd Ave  
Unit B Street Aurora,  
CO 80010



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18	1700-1PK-BB40	3M Electric tapes	33-36
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20	PLT3I-C	Panduit Tie wraps	38
21	J-LACLAC102DX001M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 1M	Spec sheets not available
22	J-LACLAC102DX003M	LC/APC - LC/APC Singlemode Duplex Patch Cable, 3M	Spec sheets not available



CS44P ETL Verified Category 6A U/UTP Cable, plenum, blue jacket, 4 pair count, 1000 ft (305 m) length reel

## Product Classification

<b>Regional Availability</b>	North America
<b>Portfolio</b>	Uniprise®
<b>Product Type</b>	Twisted pair cable

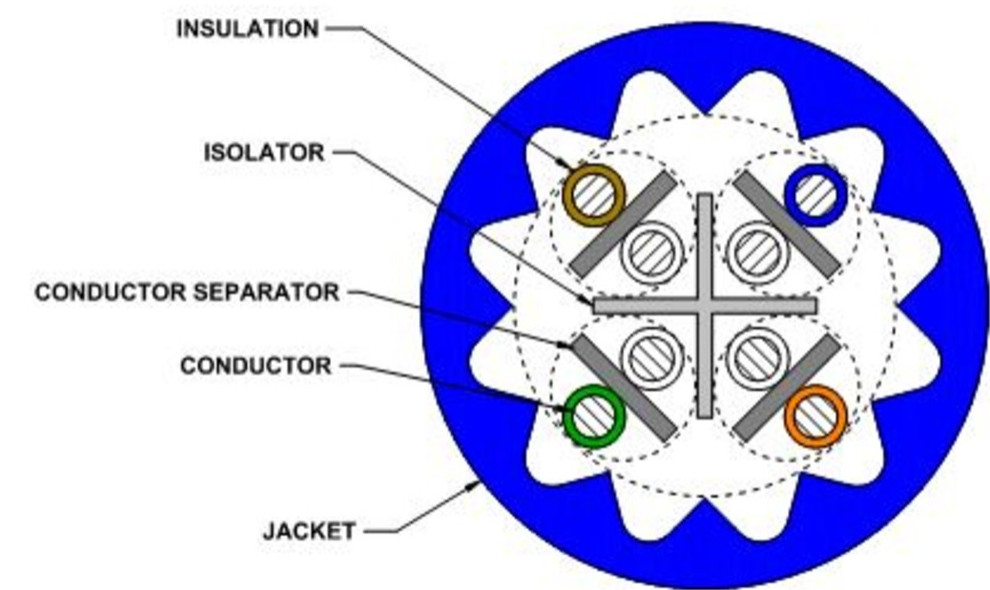
## General Specifications

<b>Product Number</b>	CS44P
<b>ANSI/TIA Category</b>	6A
<b>Cable Component Type</b>	Horizontal
<b>Cable Type</b>	U/UTP (unshielded)
<b>Conductor Type, singles</b>	Solid
<b>Conductors, quantity</b>	8
<b>Jacket Color</b>	Blue
<b>Note</b>	Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable installation in higher temperature environments
<b>Pairs, quantity</b>	4
<b>Separator Type</b>	Bisector
<b>Supported Application</b>	1000BASE-T   1000BASE-TX   10GBASE-T
<b>Transmission Standards</b>	ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Insulated Conductor</b>	0.889 mm   0.035 in
<b>Diameter Over Jacket, nominal</b>	7.239 mm   0.285 in
<b>Jacket Thickness</b>	1.295 mm   0.051 in
<b>Conductor Gauge, singles</b>	23 AWG

## Cross Section Drawing



## Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	7.61 ohms/100 m   2.32 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac   2500 Vdc
LP (Limited Power) Rating	0.6 A
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	66 %
Operating Frequency, maximum	500 MHz
Operating Voltage, maximum	80 V
Propagation Delay, maximum	536 ns/100m @500MHz
Remote Powering	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
Safety Voltage Rating	300 V



## SL-Series Modular Jack, RJ45, Cat6A Unshielded, Blue

- Color is more prominently visible across the body of the jack
- Allows for all jack variants to be terminated with the SL termination tool
- Lacing fixture of the SL termination tool is used to establish the cable termination

### OBSOLETE

This product was discontinued on: September 30, 2024

#### Replaced By:

760257197  
USL10G-BL

SL-Series Modular Jack, RJ45, Cat6A Unshielded, Blue

## Product Classification

<b>Regional Availability</b>	North America
<b>Portfolio</b>	Uniprise®
<b>Product Type</b>	Modular jack
<b>Product Series</b>	USL Series

## General Specifications

<b>ANSI/TIA Category</b>	6A
<b>Cable Type</b>	Unshielded
<b>Color</b>	Blue
<b>Conductor Type</b>	Solid   Stranded
<b>Integrated Dust Cover Type</b>	None
<b>Mounting</b>	SL Series faceplates and panels
<b>Outlet Type</b>	Standard
<b>Termination Punchdowns, minimum</b>	5 times
<b>Termination Tool</b>	SL Termination tool
<b>Termination Type</b>	IDC
<b>Transmission Standards</b>	ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA
<b>Wiring</b>	T568A   T568B

## Dimensions



## SL-Series Modular Jack, RJ45, Cat6A Unshielded, Blue

- Color is more prominently visible across the body of the jack
- Allows for all jack variants to be terminated with the SL termination tool
- Lacing fixture of the SL termination tool is used to establish the cable termination

### Product Classification

Regional Availability	North America
Portfolio	Uniprise®
Product Type	Modular jack
Product Series	USL Series

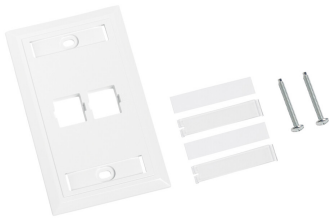
### General Specifications

ANSI/TIA Category	6A
Cable Type	Unshielded
Color	Blue
Conductor Type	Solid   Stranded
Integrated Dust Cover Type	None
Mounting	SL Series faceplates and panels
Outlet Type	Standard
Termination Punchdowns, minimum	5 times
Termination Tool	SL Termination tool
Termination Type	IDC
Transmission Standards	ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA
Wiring	T568A   T568B

### Dimensions

Panel Cutout, recommended	14.78 x 20.07 mm (0.58 x 0.79 in)
Panel Thickness, recommended	1.6 mm   0.063 in
Height	16.13 mm   0.635 in
Width	14.48 mm   0.57 in
Depth	30.48 mm   1.2 in
Compatible Cable Diameter, maximum	7.24 mm   0.285 in





L Type Flush Mounted Faceplate, 2 port, white

- Available for use with the DYMO® labeling solution

Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America
Portfolio	CommScope®
Product Type	Faceplate kit
Product Series	M Series

General Specifications

Application	Used with M Series modular information outlet
Color	White
Mounting	Flush
Total Ports, quantity	2

Dimensions

Height	115.824 mm   4.56 in
Width	71.374 mm   2.81 in
Depth	7.366 mm   0.29 in

Material Specifications

Material Type	High-impact, flame retardant, thermoplastic
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Environmental Specifications

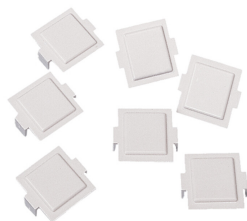
Flammability Rating	UL 94 V-0
Safety Standard	UL   cUL

Packaging and Weights

Packaging quantity	1
Weight, net	0.036 kg   0.08 lb

107067928

| M20AP-262



M20 Dust Cover for M-Series Faceplates and Outlets, white

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Dust cover

## General Specifications

<b>Color</b>	White
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## Material Specifications

<b>Material Type</b>	High-impact, flame retardant, thermoplastic
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## Environmental Specifications

<b>Operating Temperature</b>	-10 °C to +60 °C (+14 °F to +140 °F)
<b>Storage Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Flammability Rating</b>	UL 94 V-0
<b>Safety Standard</b>	UL   cUL

## Packaging and Weights

<b>Packaging quantity</b>	100
---------------------------	-----

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="https://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

Unshielded Distribution Module Panel, Cat 6A, 2U, 48 port, Black



Product Classification

Regional Availability	North America
Portfolio	Uniprise®
Product Type	RJ45 patch panel

General Specifications

ANSI/TIA Category	6A
Cable Type	Unshielded
Color	Black
Conductor Type	Solid   Stranded
Modules, quantity	8
Panel Style	Straight
Rack Type	EIA 19 in
Rack Units	2
Termination Type	IDC
Total Ports, quantity	48
Transmission Standards	ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA
Wiring	T568A   T568B

Dimensions

Height	88.9 mm   3.5 in
Width	482.6 mm   19 in
Depth, with cable management	119.38 mm   4.7 in
Compatible Diameter Over Dielectric, maximum	1.168 mm   0.046 in
Compatible Diameter Over Dielectric, minimum	0.762 mm   0.03 in

# 760162818 | UNP-6A-DM-2U-48

Compatible Conductor Gauge, solid	22 AWG   24 AWG
Compatible Conductor Gauge, stranded	22 AWG   24 AWG
Electrical Specifications	
Current Rating at Temperature	1.5 A @ 20 °C   1.5 A @ 68 °F
Dielectric Withstand Voltage, RMS, conductive surface	1,500 Vac @ 60 Hz
Dielectric Withstand Voltage, RMS, contact-to-contact	1,000 Vac @ 60 Hz
Insulation Resistance, minimum	500 MOhm
Remote Powering	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
Material Specifications	
Contact Plating Material	Precious metals
Material Type	High-impact, flame retardant, thermoplastic   Powder-coated steel
Termination Contact Plating	Nickel
Mechanical Specifications	
Plug Insertion Life, minimum	750 times
Plug Insertion Life, test plug	IEC 60603-7 compliant plug
Plug Retention Force, minimum	133 N   29.9 lbf
Environmental Specifications	
Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0
Safety Standard	UL   cUL
Packaging and Weights	
Packaging Material	Eco-friendly, single-use plastics-free
Packaging quantity	1
Regulatory Compliance/Certifications	



## Strain Relief Bar, 2 Inch Depth

**SRB19BLY**

Strain Relief Bar extends 2.8" off the rack; supports, manages and provides bend radius protection.

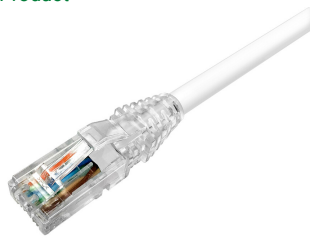
### Specifications

Product Type	Strain Relief Bar
Material	Steel
Color	Black
Includes	Mounting hardware
Overall Length (In.)	2.81
Overall Length (mm)	71.4
Overall Width (In.)	18.98
Overall Width (mm)	482.1
Overall Depth (In.)	2.81
Overall Depth (mm)	71.4
Overall Height (In.)	0.4
Overall Height (mm)	10.2
For Use With	Racks
Standards Met	RoHS Compliant

### Packaging Detail

UPC	07498305964
Std. Pkg. Qty.	1
Std. Pkg. Volume (cf)	0.0213
Std. Ctn. Qty.	10
Std. Ctn. Volume (cf)	0.2132

Base Product



Uniprise® Ultra 10® Cat 6A U/UTP Snagless Patch Cord, Non-Plenum

Product Classification

Regional Availability	North America
Portfolio	Uniprise®
Product Type	Twisted pair patch cord
Product Brand	Ultra 10®
Product Series	UC
Ordering Note	Cords < 1 m are valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords   Cords > 1 m are authorized for use in channels and are an effective standalone method used to connect active devices

General Specifications

ANSI/TIA Category	6A
Cable Type	U/UTP (unshielded)
Conductor Type	Solid
Interface, Connector A	RJ45 plug
Interface Feature, connector A	Standard
Interface, Connector B	RJ45 plug
Interface Feature, connector B	Standard
Jacket Color	Black   Blue   Green   Orange   Purple   Red   Slate   Violet   White   Yellow
Pairs, quantity	4
Transmission Standards	IEEE 802.3bt Type 4
Wiring	T568B

Dimensions

Cable Assembly Length Range (m)	1 – 30
Cable Assembly Length Range (ft)	1 – 100

# UC1AAA2

Cable Assembly Length Range (cm)	15 – 999
Cable Assembly Length Range (in)	6 – 999
Diameter Over Jacket	7.24 mm   0.285 in
Compatible Conductor Gauge, solid	24 AWG

## Wiring Diagram

	Connector A	Connector B
Position 1	White/Orange	White/Orange
Position 2	Orange	Orange
Position 3	Lt. Green	Lt. Green
Position 4	Blue	Blue
Position 5	Lt. Blue	Lt. Blue
Position 6	Green	Green
Position 7	Lt. Brown	Lt. Brown
Position 8	Brown	Brown

## Electrical Specifications

dc Resistance, maximum	0.3 ohm
Safety Voltage Rating	300 V

## Ordering Tree

# UC1AAA2

UC-

9

10

11

12

0

1

F

0

5

0

Outlet Color	
9	0 Not applicable
	1 Black
	2 Blue
	3 Gray
	4 Green
	5 Ivory
	6 Orange
	7 Red
	8 White
	9 Yellow
	B Lilac

Jacket Color	
	1 Black
	2 Light blue
	3 Dark gray
	4 Spring green
	5 Ivory
	6 Orange
	7 Red
	8 White
	9 Yellow
	B Lilac
10	C Gray
	K Pink
	L Violet
	M Green
	Z Blue

UOM		
11	F	Foot
	M	Meter
	N	Inch

Length

12

XXX

- Notes
- Cords > 1m are authorized for use in channels and are an effective standalone method used to connect active devices
  - Cords < 1m are also valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords

## Material Specifications

Contact Plating Material	Precious metals
Material Type	Copper alloy   Polycarbonate

## Mechanical Specifications

Plug Insertion Life, minimum	750 times
Plug Retention Force, minimum	133 N   29.9 lbf

## Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Environmental Space	Non-plenum
Flammability Rating	UL 94 V-0
Safety Standard	ETL   cETL

## Packaging and Weights

Packaging quantity	1
--------------------	---

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system





Uniprise Ultra 10® Category 6A U/UTP Patch Cord, Snagless

Product Classification

Regional Availability	North America
Portfolio	Uniprise®
Product Type	Twisted pair patch cord
Product Brand	Ultra 10®
Product Series	UC

General Specifications

ANSI/TIA Category	6A
Cable Type	U/UTP (unshielded)
Conductor Type	Solid
Interface, Connector A	RJ45 plug
Interface Feature, connector A	Standard
Interface, Connector B	RJ45 plug
Interface Feature, connector B	Standard
Pairs, quantity	4
Wiring	T568B

Dimensions

Cable Assembly Length, minimum (ft)	7
Cable Assembly Length, maximum (ft)	100
Cable Assembly Length, minimum (m)	2
Cable Assembly Length, maximum (m)	30

Wiring Diagram

# UC1AAA2

	Connector A	Connector B
Position 1	White/Orange	White/Orange
Position 2	Orange	Orange
Position 3	Lt. Green	Lt. Green
Position 4	Blue	Blue
Position 5	Lt. Blue	Lt. Blue
Position 6	Green	Green
Position 7	Lt. Brown	Lt. Brown
Position 8	Brown	Brown

## Electrical Specifications

dc Resistance, maximum	0.3 ohm
Safety Voltage Rating	300 V

## Ordering Tree

UC-

9

10

11

12

0

1

F

0

5

0

Outlet Color	
0	Not applicable
1	Black
2	Blue
3	Gray
4	Green
5	Ivory
6	Orange
7	Red
8	White
9	Yellow
B	Lilac

Jacket Color	
1	Black
2	Light blue
3	Dark gray
4	Spring green
5	Ivory
6	Orange
7	Red
8	White
9	Yellow
B	Lilac
C	Gray
K	Pink
L	Violet
M	Green
Z	Blue

UOM		
11	F	Foot
	M	Meter
	N	Inch

Length

12

xxx

- Notes
- Cords > 1m are authorized for use in channels and are an effective standalone method used to connect active devices
  - Cords < 1m are also valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords

## Material Specifications

Contact Plating Material	Precious metals
Material Type	Copper alloy   Polycarbonate

Mechanical Specifications

Plug Insertion Life, minimum	750 times
Plug Retention Force, minimum	133 N   29.9 lbf

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Environmental Space	Non-plenum
Flammability Rating	UL 94 V-0
Safety Standard	ETL   cETL

Packaging and Weights

Packaging quantity	1
--------------------	---

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

CC8469544/BU UNC10G GRAY 4/24 Bulk	– Ultra 10@ UNC10G Category 6A U/UTP Cable, non-plenum, gray jacket, 4 pair count, bulk length, reel
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# FREEDM® One Tight-Buffered Cable, Plenum 12 F, Single-mode (OS2)

CORNING

## Part Number:

012E8P-31131-29

Corning FREEDM® One plenum cables are flame-retardant, UV-resistant, indoor/outdoor cables designed for aerial and duct applications with no need for a transition splice when entering the building. The tight-buffered construction facilitates easier termination for low-fiber-count applications in the local area network (LAN) and eliminates the need for fan-out kits. The design features TIA-598 color-coded 900 µm buffered fibers for easy identification, consistent stripping and direct termination. The small diameter and bend radius of the cable allow for easy installation in space-constrained areas while the innovative waterblocking technology is ideal for outside plant (OSP) applications. The all-dielectric cable construction requires no grounding or bonding, and the UV-resistant, flame-retardant jacket is rugged, durable and easy to strip. Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

## Features and Benefits

### Waterblocking technology

OSP (outdoor) applications

### Small diameter and bend radius

Easy installation in space-constrained areas

### Color-coded fibers

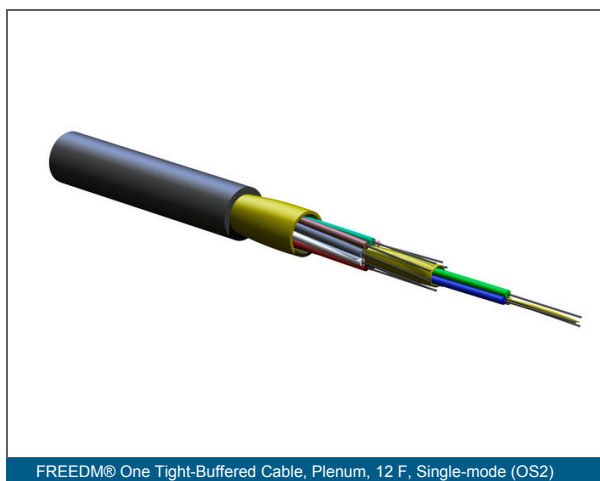
Quick and easy identification

### All-dielectric construction

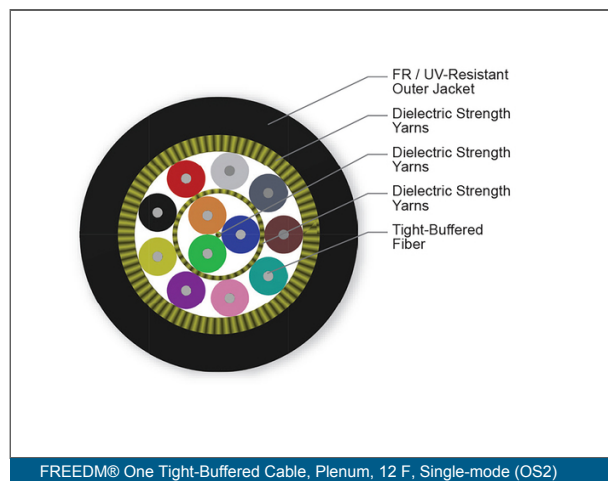
Requires no grounding or bonding

### UV-resistant, flame-retardant jacket

Rugged, durable and easy to strip



FREEDM® One Tight-Buffered Cable, Plenum, 12 F, Single-mode (OS2)



FREEDM® One Tight-Buffered Cable, Plenum, 12 F, Single-mode (OS2)

# FREEDM® One Tight-Buffered Cable, Plenum 12 F, Single-mode (OS2)

CORNING

## Specifications

### General Specifications

Cable Type	Tight-Buffered
Environment	Indoor/Outdoor
Product Type	Dielectric
Fiber Category	Single-mode (OS2)
Flame Rating	Plenum (OFNP)
Application	Aerial, Duct, General purpose, Horizontal, Vertical Riser, Plenum
Cable geometry	Round

### Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFNP, FT-6
Design and Test Criteria	ICEA S-104-696

### Environmental Conditions

Temperature Range, Installation	0 °C to 60 °C (32 °F to 140 °F )
Temperature Range, Operation	-40 °C to 70 °C (-40 °F to 158 °F )
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F )

### Cable Design

Central Element	Dielectric
Fiber Count	12
Outer Jacket Color	Black
Outer Jacket Material	Flame-Retardant, UV-Resistant
Tensile Strength Elements and/or Armoring - Layer 1	Water-swellable strength members
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua

# FREEDM® One Tight-Buffered Cable, Plenum 12 F, Single-mode (OS2)

CORNING

## Cable Design

Flame Rating	Plenum (OFNP)
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## Mechanical Specifications

Max. Tensile Strength, Long-Term	200 N (44.96 lbf)
Max. Tensile Strength, Short-Term	675 N (151.75 lbf)
Min. Bend Radius Installation	94.5 mm (3.72 in)
Min. Bend Radius Operation	63 mm (2.48 in)
Nominal Outer Diameter	6.3 mm (0.25 in)

## Optical Characteristics

Fiber Code	E
Fiber Name	SMF-28e+® fiber
Fiber Type	Single-mode
Performance Option Code	31
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.4 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D

## Dimensions

Cable Weight	36.9 kg/km (24.8 lb/1000 ft)
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# Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, UPC, 12 F, Single-mode (OS2)



Corning Cable Systems Closet Connector Housing Panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape® Solutions hardware products for a “one-size-fits-all” approach. Used with factory-installed or field-installable connectors, these panels provide inter-connect or cross-connect capability in a housing at main cross-connections, intermediate cross-connections, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

## Features and Benefits

- Universal design approach**  
One-size-fits-all LANscape® Solutions housings
- Broadest range of fiber count and adapter types**  
Solutions for all needs
- Colored icon labeling**  
Easy connector identification



## Specifications

General Specifications	
Application	Enterprise Networks, Data Center LAN/SAN
Product Type	Panels & Modules
Fiber Category	Single-mode (OS2)

Design - Hardware	
Connector Polish	UPC
Fiber Count	12
Number of Adapters per Panel	6

# Closet Connector Housing (CCH) Panel, LC Adapters

Duplex, UPC, 12 F, Single-mode (OS2)

CORNING

## Design Adapter

Adapter Housing Color	Blue
Adapter Housing Material	Composite
Adapter Type	LC duplex
Insert Material	Ceramic

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Ordering Information

Part Number	CCH-CP12-A9
Product Description	Closet Connector Housing (CCH) Panel, LC adapters, Duplex, UPC, 12 F, Single-mode (OS2)

## Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/cablesystems](http://www.corning.com/cablesystems)

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# UniCam® High-Performance Connectors, LC

Single-mode (OS2)

CORNING

Corning Cable Systems UniCam® High-Performance Connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision connectors guarantee exceptional insert loss – 0.1 dB typical/0.5 dB maximum per connector pair for multi-mode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC, or ST® Compatible Connector can be accomplished in about 45 seconds with the UniCam High-Performance Tool Kit. The lightweight, handheld installation tool and the high-performance cleaver virtually eliminate human variability from installation, ensuring terminations are right, the first time, every time. This kit was designed with consideration for the network installers, from the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance guaranteed. Every UniCam Connector is guaranteed to meet the published specification at the time of installation or Corning Cable Systems will replace it.



Part Number: 95-200-99

## Features and Benefits

### Broad operating temperature (-40° to +75°C)

Utility and flexibility

### Factory-polished end face

Consistent optical performance

### Fast termination and no consumables

Low installation cost

### Minimum insertion loss

Optimum optical performance

## Standards

Approval and Listings	Passed EIA/TIA 568-B.3
Intermateability	Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20

# UniCam® High-Performance Connectors, LC

Single-mode (OS2)

CORNING

## Specifications

### General Specifications

Technology	No-Epoxy/No-Polish
Keyed	No
Product Type	Field-Installable Connectors
Corning Logo	Yes
Packaging	Single Pack
Fiber Category	Single-mode (OS2)

### Temperature Range

Operation	-40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3)
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### Design - Connector A

Connector Type	LC
Ferrule	Ceramic
Housing Material	Composite
Housing Color	Blue
Boot Color	Blue

### Mechanical Specifications - Connector A

Durability	≤ 0.2 dB change by 500 rematings, FOTP-21
Tensile Strength Jacketed Cable	44 N, change ≤ 0.2 dB, FOTP-6 (10 lb, change ≤ 0.2 dB, FOTP-6)
Tensile Strength 900μ Cable	2.2 N, change ≤ 0.2 dB, FOTP-6 (0.5 lb, change ≤ 0.2 dB, FOTP-6)
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
Nominal Fiber Outer Diameter	125 μm

# Closet Connector Housing (CCH)

1 rack unit, holds 2 CCH connector panels

CORNING

Designed based on thousands of hours of customer feedback, Corning Cable Systems Closet Connector Housings (CCHs) offer more than two dozen innovative features that make installation and troubleshooting of fibre optic connectivity faster, easier and more cost effective.

From fibre and cable routing and strain relief, to port labelling and termination, these housings reduce the risk of error that can disrupt networks.

Closet Connector Housings (CCHs) provide interconnect or cross-connect capabilities between outside plant, riser or distribution cables and opto-electronics. Like other LANscape Solutions hardware, the housings accept CCH connector panels. In addition, the housings accept CCH cassettes and CCH modules.

The units are designed for rack mounting in 19-in (48 cm) racks or optional 23-in (58 cm) equipment racks (1.75-in EIA hole spacing). They are available in rack space options of 1U (two panels, cassettes or modules), 2U (four panels, cassettes or modules), 3U (six panels, cassettes or modules) and 4U (twelve panels, cassettes or modules). The 1U, 2U and 3U options feature a slide-out tray and see-through, removable top covers. The CCH-04U features a clear door, removable front and rear enclosures and a platinum-painted interior for maximum visibility and access.

Every CCH housing is shipped complete with strain relief brackets, routing clips and guides, and mounting brackets for proper installation. Documentation labels are provided and components can be added as needed to construct a fibre distribution frame for any application. All housings include a removable tinted polycarbonate front door. All size housings have field-installable lock kits available for both front and rear doors.

All CCH housings can also be upgraded for pigtail splicing to full fibre capacity and easy, modular fibre management through the use of CCH Splice Cassettes (CCH-CS), or for easy, modular fibre management when using field-installable connectors through the use of CCH Slack Cassettes (CCH-CF).



## Features and Benefits

### Interconnect and cross-connect capability

Ideal for field connectorization

### Removable, translucent top covers (1U, 2U, 3U), removable rear cover (4U)

Visibility and ease of access for installation, testing and troubleshooting

# Closet Connector Housing (CCH)

1 rack unit, holds 2 CCH connector panels

CORNING

## Features and Benefits

### Internal and external strain-relief options

Flexibility for installation and moves, adds and changes (MACs)

### Accepts panels, modules and cassettes

Variety of field termination options

### Adaptable to use as a modular splice housing

Splices are stored and protected in same footprint

## Standards

<b>Approval and Listings</b>	Meets ANSI/TIA/EIA-568A and 606
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<b>RoHS</b>	Free of hazardous substances according to RoHS 2002/95/EG
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**UL-Listed**

## Specifications

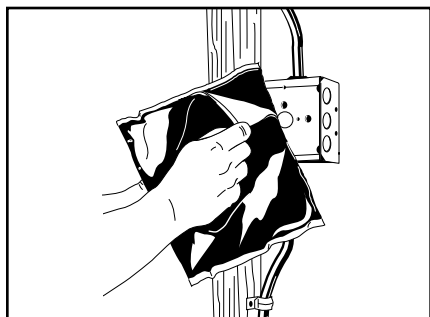
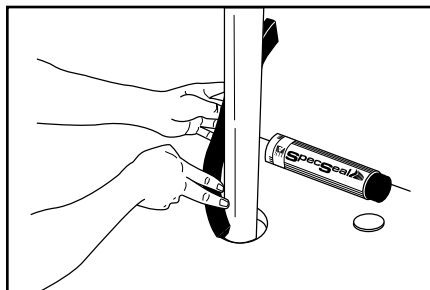
General Specifications	
Application	Enterprise Networks, Data Centre, Carrier Networks
Mounting Type	Rack 19", Rack 23"
Product Type	Fibre Optic Hardware
Environment	Indoor
Mounting Technology	Flush mount, Protruding, Recessed
Access Type	Front and rear access slidable
Lockable	Yes



## SERIES SSP PUTTY & PUTTY PADS

### APPLICATIONS

SpecSeal® Series SSP Putty and Putty Pads are used to seal through-penetrations as well as construction gaps and blank openings. SpecSeal® Putty Pads are used to seal around electrical boxes to reduce sound transmission (see Technical Update) and increase fire resistance. These pads also provide a metered method of application when sealing through-penetrations and in some applications, are used to provide a cushion to allow movement due to settling, expansion and contraction, or vibration.



### PRODUCT DESCRIPTION

SpecSeal® Series SSP Putty is a non-hardening, intumescent compound designed to seal through-penetrations as well as certain membrane penetrations against the spread of fire, smoke and toxic gasses. SpecSeal® Putty expands up to eight times its original size when exposed to high temperatures or flames.

Requiring no tools, SpecSeal® Series SSP Putty is soft and pliable making it easy to install by hand packing into openings. Its aggressive adhesion makes it suitable for use with all common construction materials as well as cable jacketing and pipes. SpecSeal® Putty remains soft and easy to reuse or retrofit.

SpecSeal® Series SSP Putty Pads provide this same level of protection in a release lined pad for easy application to electrical boxes or other penetrants. The pad is conveniently sized to fit a typical 1-1/2" (38 mm) deep 4S box with no cutting or piecing required. Faced on both sides with a convenient poly liner, SpecSeal® Putty Pads are easily applied with no mess or excessive residue.

#### FEATURES

- **Non-Hardening** = Easy retrofit!
- **Two Stage Intumescence** features aggressive expansion.
- **Endothermic Fillers** absorb heat & release water.
- **Highly Adhesive** formula Stays put. Allows movement.
- **Soft & Pliable** for easy installation.
- **No Water-Soluble Expansion Ingredients** means better water resistance!
- **Sound Deadening!** Excellent sound attenuation properties. Reduces noise transmission.

### PERFORMANCE

SpecSeal® Series SSP Putty is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479). Systems have been tested for all common forms of construction and most common penetrants with ratings up to 3 hours. Sound attenuation properties have also been tested as per ASTM C919 and E90.

Additionally, SpecSeal® Series SSP Putty Pads have been tested to UL263 (ASTM E119, NFPA 251) and are classified for up to 2 hours as a Wall Opening Protective Material for use with both metallic and nonmetallic outlet or switch boxes installed in gypsum wallboard assemblies (steel and wood stud assemblies). Boxes protected with SpecSeal® Putty Pads have been successfully tested with box spacing reduced to less than 16" (406 mm). (Not tested nor approved for boxes installed directly back to back).

### PHYSICAL PROPERTIES

#### PHYSICAL PROPERTIES

Product Name:	Series SSP Putty
Color:	Red
Odor:	None
Density:	1.45 kg/L (12.08 lb/gal)
Solids:	100%
Expansion Begins:	230°F (110°C)
Volume Expansion:	> 500% (free expansion)
In-Service Temp:	120°F (49°C)
STC Rating:	62
VOC Content**:	0.00 lbs/gal (0.0g/L)
Shelf Limit:	No Limit

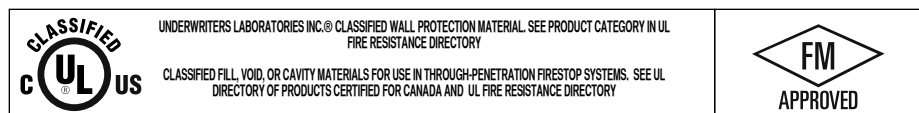
\*\*ASTM D 3960 and EPA Federal Reference Method 24.

### SPECIFICATIONS

The firestopping putty shall be a one-part, two-stage intumescent, non-hardening compound. The putty, when exposed to high heat or flame shall be capable of expanding a minimum of five times. Range of continuing expansion shall be from 230°F to >1,000°F (110°C to >538°C). The putty shall be soft and pliable with aggressive adhesion and shall not contain any water-soluble intumescent ingredients. The putty shall be UL Classified and/or FM Systems Approved and tested to the requirements of ASTM E814 (UL1479).

#### SPECIFIED DIVISIONS

DIV.	7	07840	Through-Penetration Firestopping
DIV.	13	13900	Special Construction Fire Suppression & Supervisory Systems
DIV.	15	15250	Mechanical Insulation – Fire Protection
DIV.	16	16050	Basic Electrical Materials & Methods



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## MAINTENANCE

Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® products per the original approved design.

## CLEAN UP

Remove excess material from all contact surfaces immediately. Clean hands or skin using a waterless hand cleaner. When using water-emulsifiable soaps, apply soap and work over areas of skin contact prior to applying water.

## TECHNICAL SERVICE

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL Systems, Material Safety Data Sheets and other technical information is available at the Technical Library at [www.stifiwestop.com](http://www.stifiwestop.com).

## PRECAUTIONARY INFORMATION

Consult Material Safety Data Sheet for additional information on the safe handling and disposal of this material. Wash areas of skin contact with soap and water. Avoid contact with eyes. DO NOT APPLY TO EXPOSED ELECTRICAL CONDUCTORS.

## AVAILABILITY

SpecSeal® Series SSP Putty is available from authorized STI distributors nationwide. Consult factory for the names and locations of the nearest sales representatives or distributors. 

**TABLE A: ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	CASE QTY.
SSP100	36 in <sup>3</sup> (0.6 liter) bar	6
SSP28	24 in <sup>3</sup> (0.4 liter) bar	-
SSP4S	7.25" x 7.25" x 3/16" (184 x 184 x 5 mm) pad	20
SSP9S	9.00" x 9.00" x 3/16" (229 x 229 x 5 mm) pad	20



## CITY OF NEW YORK MEA 30-92-M

**IMPORTANT NOTICE:** All statements, technical information, and recommendations contained herein are based upon testing believed to be reliable, but the accuracy and completeness thereof is not guaranteed.

### WARRANTY

Specified Technologies Inc. manufactures its goods in a manner to be free of defects. Should any defect occur in its goods (within one year), Specified Technologies Inc., upon prompt notification, will at its option, exchange or repair the goods or refund the purchase price.

### LIMITATIONS AND EXCLUSIONS:

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No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

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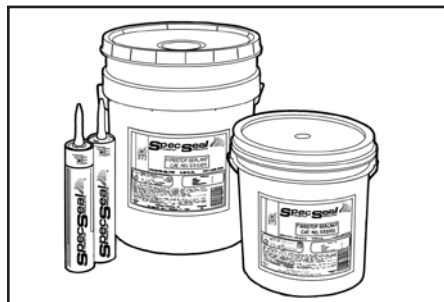
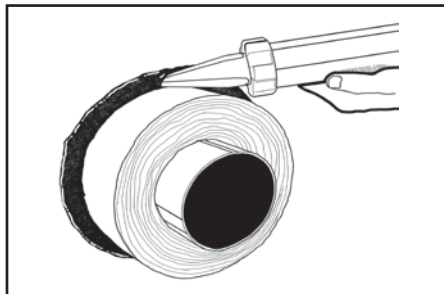


## SERIES SSS INTUMESCENT SEALANT

### APPLICATIONS

SpecSeal® Series SSS Sealant is used to seal through-penetrations as well as construction gaps and blank openings. SpecSeal Series SSS has been tested for use with metallic penetrants up to 30" (762 mm) trade size. This product is also used with other SpecSeal® Products such as SpecSeal® Firestop Collars and Wrap Strips.

See Table A for a summary application list.



### PRODUCT DESCRIPTION

SpecSeal® Series SSS Sealant is a latex based, high solids firestop compound. This material, when properly installed, will effectively seal penetration openings against the spread of fire, smoke, toxic gasses and water.

SpecSeal® Series SSS Sealant features STI's patented and proprietary two-stage intumescent technology. When exposed to high temperatures or fire, this material expands aggressively in a highly directionalized fashion to quickly close off voids left by the burning or melting of combustible materials.

SpecSeal® Series SSS Sealant's unique multi-viscosity formula yields a single grade that has excellent caulking properties as well as high build properties on vertical or overhead surfaces. This single grade may be pumped, caulked (standard cartridge or bulk loaded), knifed or troweled. In addition, SpecSeal Series SSS Sealant does not contain PCB's or asbestos.

SpecSeal® Series SSS Sealant is storage stable (when stored according to the manufacturer's recommendations) and will not separate nor shrink when dried. SpecSeal Series SSS Sealant will adhere to all common construction and penetrant materials and contains no solvents that might adversely effect plastic pipes or cable jackets.

FEATURE	BENEFIT
• <b>Water-Based</b>	Easy installation, cleanup, and disposal.
• <b>Two-Stage Intumescence</b>	Extremely fast and directionalized expansion.
• <b>Endothermic Fillers</b>	Absorb heat & release water.
• <b>High Solids Formula</b>	No shrinkage!
• <b>Sandable &amp; Paintable</b>	(when dry)
• <b>Water-Resistant</b>	Will not re-emulsify when dry!
• <b>Safe</b>	Safe for contact with plastics.
• <b>Red Color</b>	Easy identification and inspection.
• <b>Multi Viscosity Grade</b>	Excellent caulking properties along with high build capabilities.
• <b>Excellent Smoke Seal</b>	

### PERFORMANCE

SpecSeal® Series SSS Sealant is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) as well as the time-temperature requirements of ASTM E119 (UL263). Systems have been tested for all common forms of construction and most common penetrants with ratings up to 4 hours. STI firestop systems are designed to maximize the fire resistance of the seal by not only sealing off the spread of fire and hot gasses but also by minimizing the amount of heat conducted through the assembly. Thus all systems have been designed to provide T Ratings capable of matching the rating of the wall or floor assembly (where possible) when tested without penetrants.

	<p>FILL, VOID OR CAVITY MATERIALS FOR USE IN JOINT SYSTEMS AND THROUGH-PENETRATION FIRESTOP SYSTEMS. SEE UL DIRECTORY OF PRODUCTS CERTIFIED FOR CANADA AND UL FIRE RESISTANCE DIRECTORY.</p> <p>3L73</p>	
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### PHYSICAL PROPERTIES

Properties	Series SSS
Color	Red
Odor	Mild Latex
Density	9.4 lb/gal (1.13 kg/L)
Solids Content	80% ± 2%
pH	8.3
In Service Temperature	-10°F (-23°C) - 185°F (85°C)
Storage Temperature	40°F (4°C) - 95°F (35°C)
Flame Spread	0*
Smoke Developed*	10*

Properties	Series SSS
STC Rating (ASTM E90/ASTM C919)	62
VOC Content (EPA Method 24/ASTM D3960)	0.18 lbs/gal (22.0 g/L)
Shelf Life	2 yrs
Expansion Begins	230°F (110°C) 1st Stage 350°F (177°C) 2nd Stage
Expansion Range	230°F to > 1,000°F (110°C to > 538°C)
Volume Expansion	> 500% Free Expansion

\* Tested to ASTM E84 (UL723) at 14% surface coverage (modified test for sealants and caulks)





## INSTALLATION INSTRUCTIONS

**LIMITATIONS:** SpecSeal® Series SSS Sealant is water-based and cures through the evaporation of water. Low temperatures as well as high humidity may retard drying. Non-porous or impermeable backing materials, plates, or coatings may retard the drying process. Do not paint or seal in any way that prevents contact with air until sealant has dried through completely. This product has been designed to be safe with plastics and has been used extensively and successfully with a variety of different types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials however, make it impossible to guarantee compatibility. STI strongly recommends that the user consult with the manufacturer of the pipe, tubing, or cable in question regarding any known sensitivities or potential restrictions before applying this product.

## MAINTENANCE

**Inspection:** Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® products per the original approved design.

**Retrofit:** When adding or removing penetrants, care should be taken to minimize damage to the seal. Reseal using SpecSeal® products per the approved design. **NOTE:** New penetrants of a different nature than the original design may require a totally new firestop design or extensive modifications to the existing design. Reseal all openings as per the requirements of the modified design.

## TECHNICAL SERVICE

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL Systems, Material Safety Data Sheets and other technical information is available through the Technical Library at [www.stifirestop.com](http://www.stifirestop.com).

## PRECAUTIONARY INFORMATION

Consult Material Safety Data Sheet for additional information on the safe handling and disposal of this material. Wash areas of skin contact with soap and water. Avoid contact with eyes. **SEALANT IS CONDUCTIVE UNTIL DRY.**

## AVAILABILITY

SpecSeal® Series SSS Sealant is available from authorized STI distributors. Consult factory or website for the names and locations of the nearest sales representatives or distributors.

CATALOG NUMBER	DESCRIPTION
SSS100	10.1 oz. Tube (300 ml) 18.2 cu.in.
SSS129	29 oz. Tube (858 ml) 52 cu. in.
SSS120	20 oz. Sausage (592 ml) 36 cu. in.
SSS102	2 Gal. Pail (7.6 liters) 462 cu.in.
SSS105	5 Gal. Pail (19.0 liters) 1,155 cu.in.

## CITY OF NEW YORK MEA 28-92-M

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No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

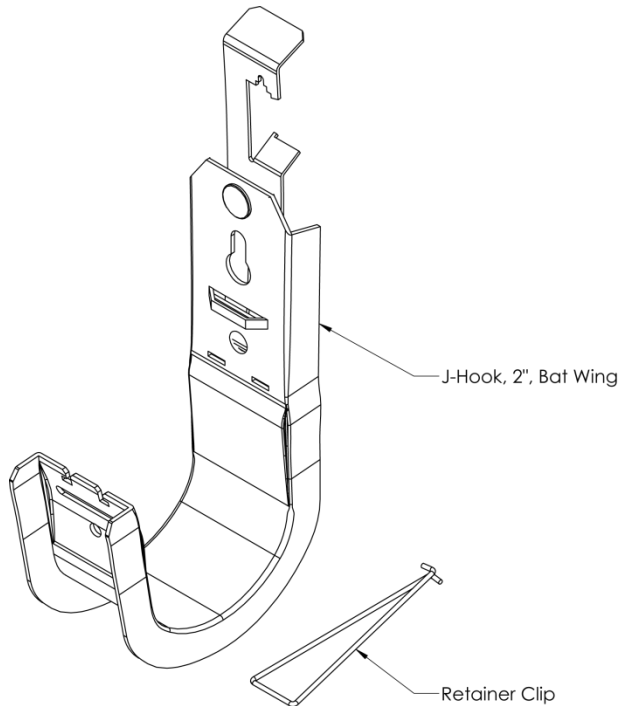
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# J-Hook, 2", Bat Wing, 25 PK



## Package Include:

- A. J-Hook, 2", Bat Wing, 25 Pieces**
- B. Retainer Clip, 25 Pieces**
- C. Installation Instructions, 1 Sheet**

## Features and Benefits

- Made of high quality galvanized steel for strength and durability
- Accommodates CAT 5e, CAT 6, CAT 6A, coax, and fiber optic cables, and conduit
- Rust resistant zinc finish
- Complies with EIA/TIA requirements for structured cabling systems
- Cost effect alternative to expensive cable tray or ladder runway rack
- Smooth edges to protect cables and facilitate bend radius
- Cables can be pulled through quickly and easily
- Cable anchor points allows users to secure with cable ties
- Stopper tab allow an easier installation onto 12 AWG ceiling wire
- Supports up to 25 lbs. of weight
- Available in bulk 25 pack

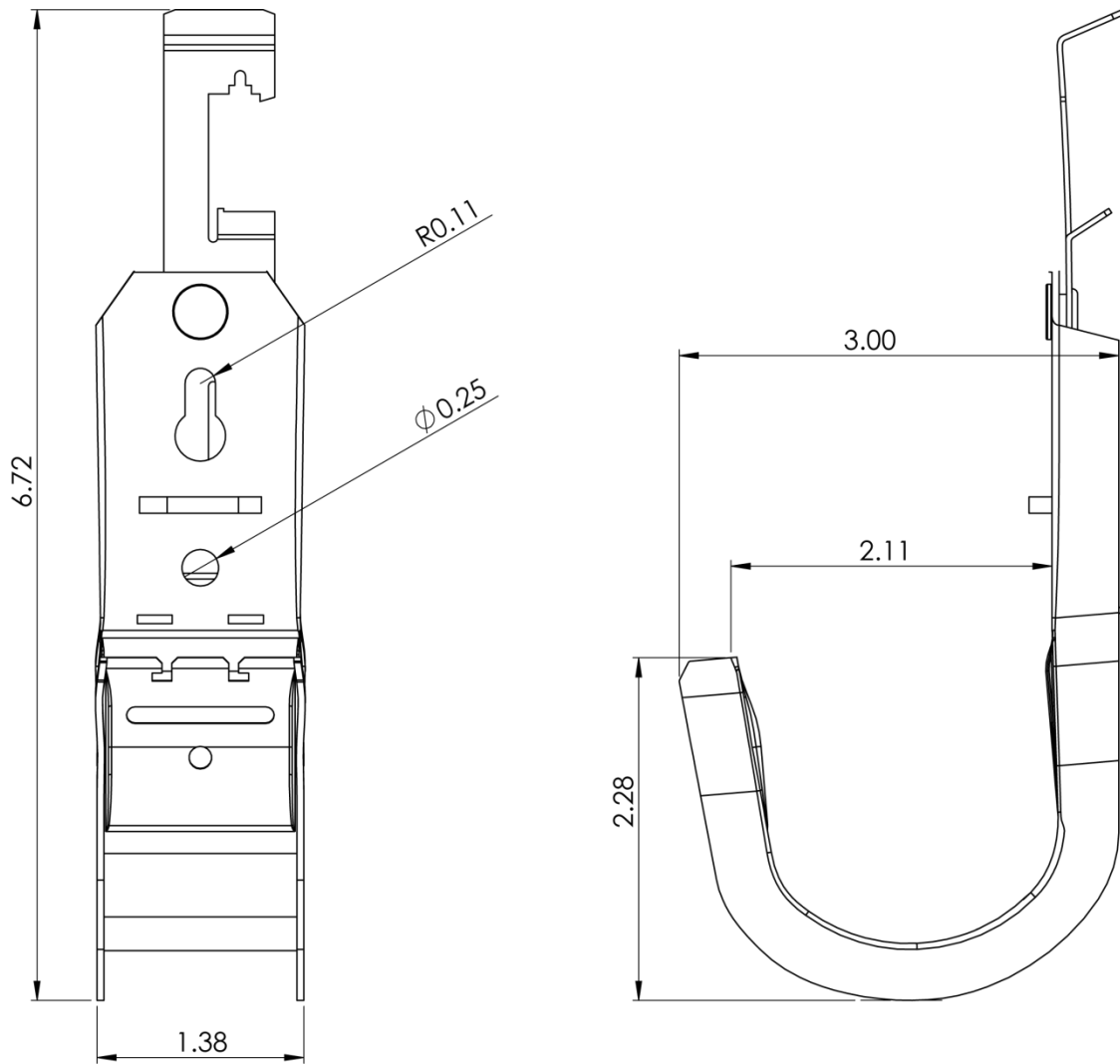
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Rev: A

Page 1 of 2

| 888-ASK-4ICC | [icc.com](http://icc.com) | [csr@icc.com](mailto:csr@icc.com) |



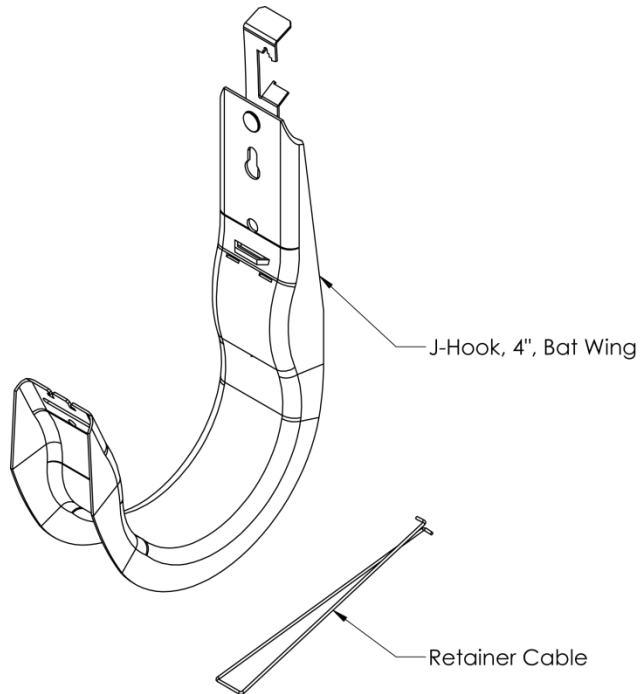


### **Specifications**

- Material: 18 gauge galvanized steel
- Finish: Zinc plated J-Hook, and black powder coated batwing

Capacity Reference			
Cable Type	CAT 5e	CAT 6	CAT 6A
Qty	~80	~50	~

# J-Hook, 4", Bat Wing, 25 PK



## Package Includes

- A. J-Hook, 4", Bat Wing, **25 Pieces**
- B. Retainer Clip, **25 Pieces**
- C. Installation Instructions, **1 Sheet**

## Features and Benefits

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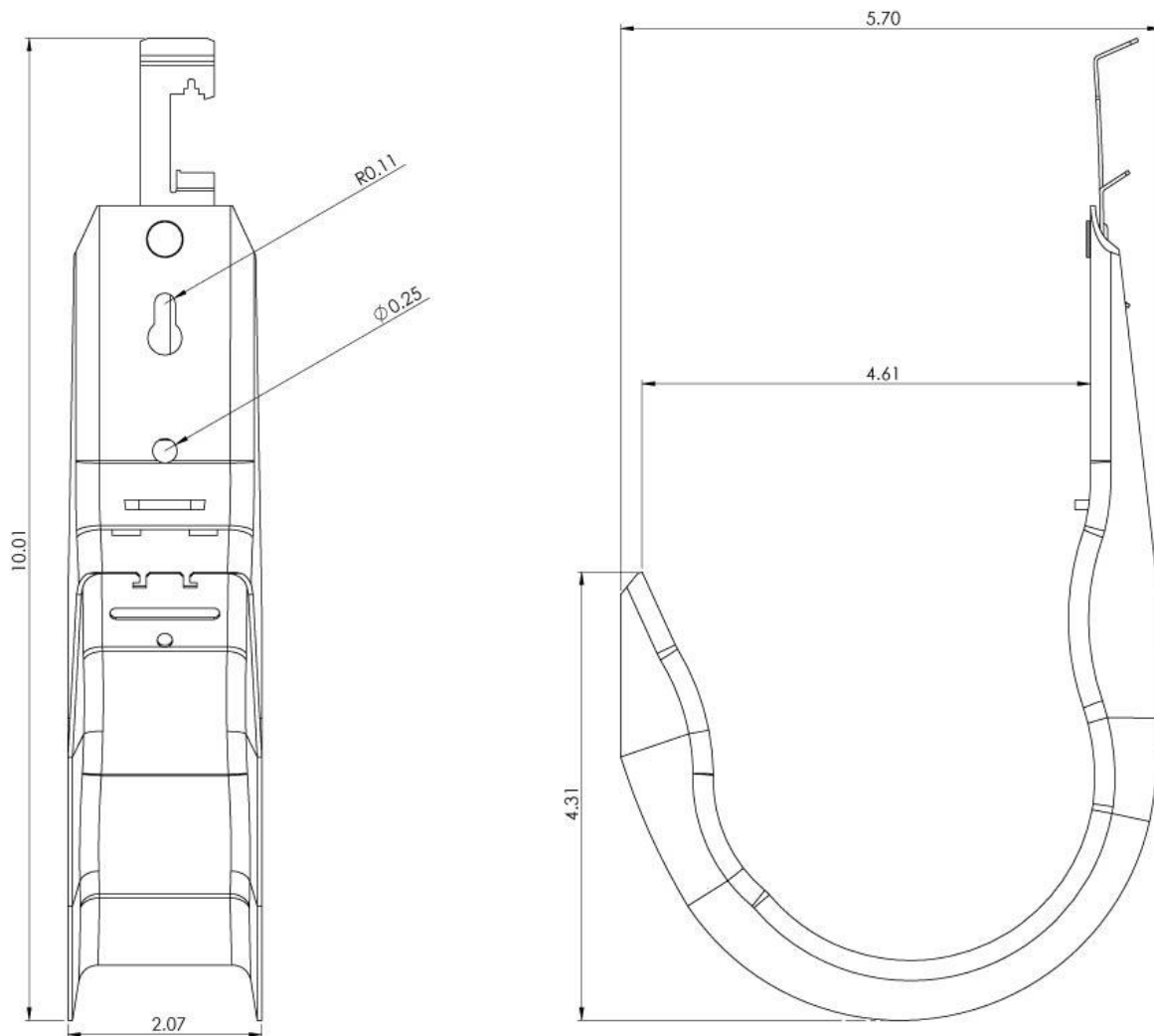
Part No: **ICCMSJHW55**

Rev: A

Page 1 of 2

I 888-ASK-4ICC | [icc.com](http://icc.com) | [csr@icc.com](mailto:csr@icc.com) |





### **Specifications**

- Material: 18 gauge galvanized steel
- Finish: Zinc plated J-Hook, and black powder coated batwing

Capacity Reference			
Cable Type	CAT 5e	CAT 6	CAT 6A
Qty	~160	~100	~

# 3M™ Temflex™ Vinyl Electrical Tape

## 1700

### Data Sheet

November 2011

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<b>Product Description</b>	3M™ Temflex™ Vinyl Electrical Tape 1700 is a good quality, economical general purpose vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions. It is a polyvinyl chloride (PVC) tape that is flame-retardant and conformable. 3M Temflex 1700 Tape provides excellent mechanical protection with minimum bulk. It is a UL Listed and CSA Certified “Insulating Tape.”
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<b>Agency Approvals &amp; Self Certifications</b>	UL Listed; UL 510 Standard “Insulating Tape” (product category OANZ), File E129200  CSA Certification; Standard C22.2 No. 197-M1983 “PVC Insulating Tape,” File LR48769
---	---

RoHS 2002/95/EC



RoHS Compliant 2002/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

---

<b>Applications</b>	<ul style="list-style-type: none"><li>• Primary electrical insulation for most wire and cable splices rated up to 600 volts</li><li>• Protective jacketing for high voltage cable splices and repairs</li><li>• Harnessing of wires and cables</li><li>• For indoor or outdoor applications</li><li>• For above or below ground application</li></ul>
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<b>Installation Techniques</b>	Apply the tape in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the tape’s width to approximately 5/8 of its original width. On pigtail splices, the tape should be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. <b>Always wrap the tape “uphill” to create a shingle effect. Apply the tape with no tension on the last wrap to prevent flagging.</b>
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# 3M™ Temflex™ Vinyl Electrical Tape 1700

## Typical Data/ Physical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (~23°C) unless otherwise stated.

Physical Properties (Test Method) *ASTM D1000	Typical Value US units (metric)
Thickness*	7 mils (0,18 mm)
Adhesion* To Steel To Backing	22 oz/in (2,4 N/cm) 22 oz/in (2,4 N/cm)
Operating Temperature UL 510 CSA 2.22	80°C (176°F) 80°C (176°F)
Breaking Strength*	17 lbs/in (30 N/cm)
Elongation*	200%
Flammability (UL 510)	Pass

Electrical Properties (Test Method) *ASTM D1000	Typical Value US units (metric)
Dielectric Strength* Standard Condition After Humidity Condition	>1000 V/mil (39.4kV/mm) >90% of Standard
Insulation Resistance*	10 <sup>6</sup> Megohms

## Shelf Life & Storage

3M Temflex Electrical Tape 1700 has a 5-year shelf life (from date of manufacture) when stored in a humidity controlled storage (10°C /50°F to 27°C /80°F and less than 75% relative humidity).

## Availability

Temflex Electrical Tape 1700 is available from your local 3M authorized electrical distributor in the following standard roll size: ¾ in. x 60 ft. Other lengths and widths available by special order.

## Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

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# 3M™ Temflex™ Vinyl Electrical Tape 1700

## Data Sheet

November 2011

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TAPE




# ONE-WRAP® FR Tape

## For Use In Plenum Air Space

VELCRO® Brand ONE-WRAP® Fire Retardant (FR) tape is the only hook & loop material that complies to national electric code standards for use in plenum air spaces\*. This is used for bundling phone lines, ethernet cords and other IT infrastructure within plenum air space.



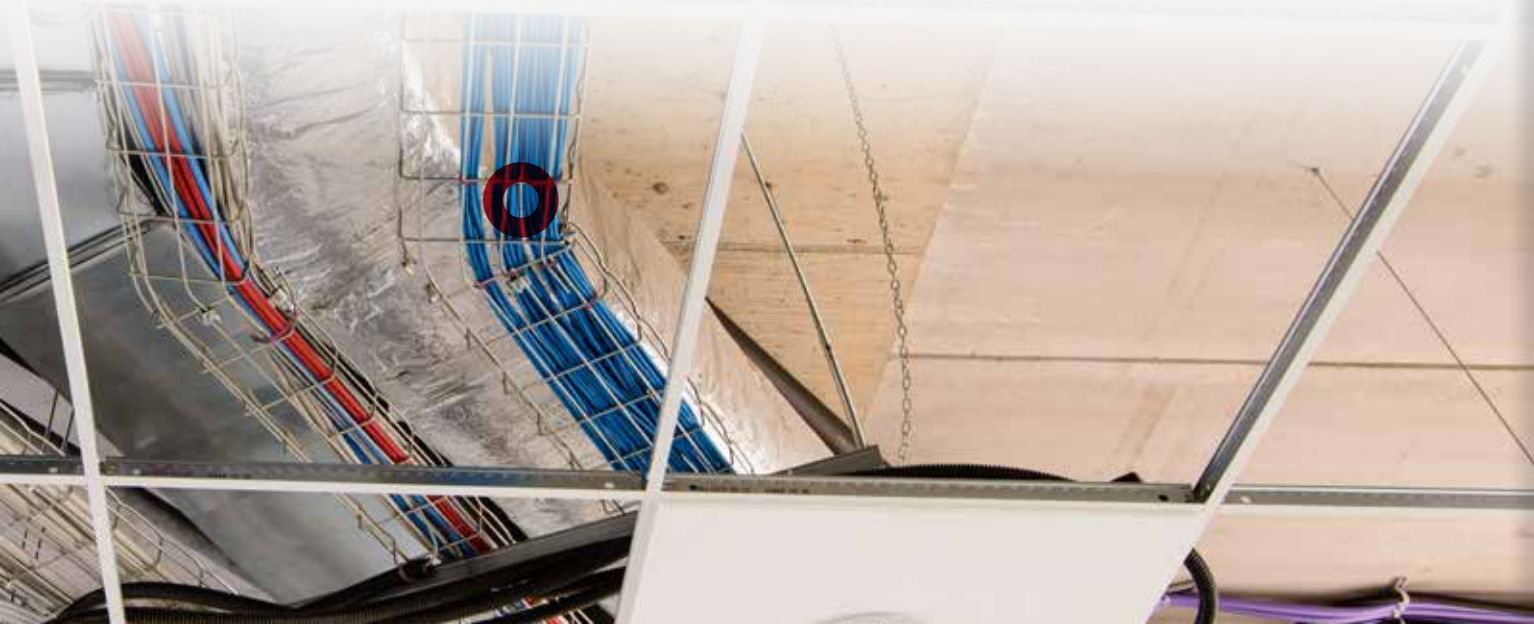
CLOSURE INFORMATION		FR
	MATERIAL	Polypropylene (Hook) Polyamide (Backing)
	CYCLE LIFE	Medium
	PEEL	0.6 PIW
	SHEAR	29 PSI

SIZE	TAPE SHAPE
3/4" x 6"	
3/4" x 8"	
3/4" x 12"	

\*Plenum Rated—Suitable for use in air handling spaces in accordance with Section 300.22 (C) and (D) of the National Electrical Code.

Common VELCRO® Brand ONE-WRAP® FR Lineal Offerings

REFERENCE	UPC CODE	LENGTH	WIDTH	COLOR	QTY PER SHIPPING BOX	APPLICATION METHOD
30986	075967309862	25 yards	1/2"	■ Black (330)	24	Bundle, wrap, fasten
30994	075967309947			■ Cranberry (502)		
30987	075967309879		3/4"	■ Black (330)		
30993	075967309930			■ Cranberry (502)		



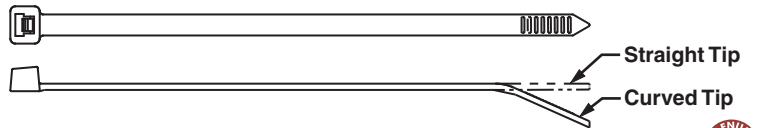
A.  
System  
Overview



## Pan-Ty® Cable Ties – Nylon 6.6

- For indoor use
- Versatile cable ties can be used in countless applications
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry

- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- A variety of materials and colors available for specific applications
- UL Listed for use in plenum or air handling spaces per NEC except PLT.6SM and PLT5H/6H/8H/13H



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

### Subminiature Cross Section

<b>PLT.6SM-C</b>	2.8	71	.070	1.8	.030	.8	.60	15	8	36	GTS, GTSL, PTS	100	1000
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### Miniature Cross Section – Plenum-Rated

<b>PLT.7M-C</b>	3.1	79	.090	2.3	.032	.8	.68	17	18	80	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
<b>PLT1M-C</b>	3.9	99	.098	2.5	.043	1.1	.87	22	18	80		100	1000
<b>PLT1.5M-C</b>	5.6	142	.098	2.5	.043	1.1	1.25	32	18	80		100	1000
<b>PLT2M-C</b>	8.0	203	.098	2.5	.043	1.1	2.00	51	18	80		100	1000

### Intermediate Cross Section – Plenum-Rated

<b>PLT1.5I-C</b>	5.6	142	.142	3.6	.045	1.1	1.38	35	40	178	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
<b>PLT2I-C</b>	8.0	203	.142	3.6	.045	1.1	2.00	51	40	178		100	1000
<b>PLT2.5I-C</b>	9.7	246	.145	3.7	.052	1.3	2.50	64	40	178		100	1000
<b>PLT3I-C</b>	11.4	290	.145	3.7	.052	1.3	3.00	76	40	178		100	1000
<b>PLT4I-C</b>	14.5	368	.145	3.7	.052	1.3	4.00	102	40	178		100	1000

### Standard Cross Section – Plenum-Rated

<b>PLT1S-C</b>	4.8	122	.190	4.8	.052	1.3	1.00	25	50	222	GTS, GTSL, GS2B, GTH, GS4H, PTS, PPTS, PTH, STS2, STH2	100	1000
<b>PLT1.5S-C</b>	6.2	157	.190	4.8	.052	1.3	1.50	38	50	222		100	1000
<b>PLT2S-C</b>	7.4	188	.190	4.8	.052	1.3	1.88	48	50	222		100	1000
<b>PLT2.5S-C</b>	9.8	249	.190	4.8	.052	1.3	2.50	64	50	222		100	1000
<b>PLT3S-C</b>	11.5	292	.190	4.8	.052	1.3	3.00	76	50	222		100	1000
<b>PLT4S-C</b>	14.5	368	.190	4.8	.052	1.3	4.00	102	50	222		100	1000
<b>PLT4.5S-C</b>	15.5	394	.190	4.8	.052	1.3	4.50	114	50	222		100	1000
<b>PLT5S-C</b>	17.5	445	.190	4.8	.052	1.3	5.00	127	50	222		100	500

### Light-Heavy Cross Section (Straight Tip) – Plenum-Rated

<b>PLT2H-L</b>	8.1	206	.300	7.6	.075	1.9	2.00	51	120	534	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
<b>PLT2.5H-L</b>	9.8	251	.300	7.6	.075	1.9	2.50	64	120	534		50	500
<b>PLT3H-L</b>	11.4	290	.300	7.6	.075	1.9	3.00	76	120	534		50	500
<b>PLT4H-L</b>	14.5	368	.300	7.6	.075	1.9	4.00	102	120	534		50	500
<b>PLT6LH-L</b>	21.9	556	.300	7.6	.075	1.9	6.00	152	120	534		50	500
<b>PLT7LH-L</b>	24.7	627	.300	7.6	.075	1.9	7.00	178	120	534		50	500
<b>PLT8LH-L</b>	27.6	701	.300	7.6	.075	1.9	8.00	203	120	534		50	500
<b>PLT9LH-L*</b>	30.5	775	.300	7.6	.075	1.9	9.00	229	120	534		50	500
<b>PLT10LH-L*</b>	34.3	871	.300	7.6	.075	1.9	10.31	262	120	534		50	1000

### Heavy Cross Section (Straight Tip)

<b>PLT5H-L*</b>	17.7	450	.350	8.9	.078	2.0	5.00	127	175	778	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
<b>PLT6H-L*</b>	20.9	530	.350	8.9	.078	2.0	6.00	152	175	778		50	500
<b>PLT8H-L*</b>	30.6	779	.350	8.9	.078	2.0	9.00	229	175	778		50	500
<b>PLT13H-Q*</b>	43.3	1100	.350	8.9	.078	2.0	13.00	330	175	778		25	500

\*UL Listed – meets the requirements of UL 181B-C, for securing UL Listed non-metallic air ducts and air connectors.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.



## REQUEST FOR PROPOSAL

### Internal Connections - Structured Cabling (E-Rate)

ADAMS 12 FIVE STAR SCHOOLS - PURCHASING  
RFP 25-025 - Addendum 1

**Issue Date:** Wednesday, January 22, 2025  
**RFP Number:** 25-025  
**Buyer:** Audra Vela, Senior Buyer, (720) 972-4229  
**Due Date:** Friday, February 21, 2025 at 10:00AM MST, Submit offers to Bidnet Direct **only** at:  
<https://www.bidnetdirect.com/colorado/adams-12-five-star-schools>

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#### BID ADDENDUM

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This notice will serve as an addendum to the above issued RFP, as notification to incorporate the following pages into the solicitation, making it part of the original documents and solicitation as originally requested.

#### **Below is the District's Response to the Questions Received:**

1. Question: Is the district allowing site visits to better understand building layout and potential obstacles?  
Response: Site visits will be performed during the design phase after the RFP award.
2. Question: In the MDF/IDF data rooms, can we reuse existing network racks/wire management if possible?  
Response: Yes, existing racks and wire managers will be reused.
3. Question: If there are any cable runs to new locations that do not have existing data, would those runs need to be run in conduit/wiremold?  
Response: Contractors shall adhere to the District's Division 27 Technical Guidelines attached in Appendix A-1 for conduit/wiremold requirements. Specific requirements for new conduit/wiremold will be determined during the design phase for inclusion in the contract.
4. Question: On the 470, it is spec'ing Commscope, but I don't see it listed anywhere else in the RFP documents. Is the district set on Commscope or would they take bids from comparable manufacturers? ICC for example.  
Response: The District's Division 27 Technical Guidelines, attached in Appendix A-1, outline the requirements for manufacturer or equivalent alternatives.
5. Question: The district is asking for 10 schools with an optional 2 as a value add if possible. Is there a preference on which schools need to be prioritized during this project?  
Response: With the exception of the following Construction Activity at specific schools, the District does not have a preference for project prioritization:
  - Horizon High School

- Multiple general renovation projects are scheduled to begin in early June 2026
- Cabling work must be completed prior to the start of these renovations
- Eagleview Elementary School
  - A summer roofing project is scheduled from early June 2025 through mid-August 2025
  - Cabling work cannot occur during this time
- Century Middle School
  - A summer roofing project is scheduled from early June 2025 through mid-August 2025
  - Cabling work cannot occur during this time

Outside of these considerations, Contractors have flexibility in determining the project schedule that works best for their team.

6. Question: We assume that this project is fully tax exempt?

Response: Yes, the District and project are tax exempt.

7. Question: Is any after-hours or weekend work anticipated, either for cabling installation or cut-over support?

Response: Yes, after-hours and weekend work is anticipated. Cabling crews are expected to work year-round, even while buildings remain open to students and activities. Increased access will be available during summer months and other school breaks. However, buildings will still be open for staff, student programs, and community use during these times. Contractors should plan accordingly for after-hours and weekend work.

8. Question: Are there any expected requirements for new surface raceways or conduits?

Response: See response to Question 3.

9. Question: The Statement of Work references new equipment racks and wire management may be required, but these are not listed in the bid form spreadsheet. Can you provide some guidance on how we should best try to account for these items?

Response: See response to Question 2.

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The District reserves the right to accept or reject any or all submittals and to waive formalities.

**All proposals must also include a signed copy of this addendum.**

For any legal questions regarding the specifics of this RFP, please contact Audra Vela, at 720-972-4229.

Signed:  Date: **02/21/2025**

Company: **SYSTEC101**

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**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION -  
LOWER TIER COVERED TRANSACTIONS\*  
REQUIRED FOR ALL AGREEMENTS OVER \$25,000**

\*Lower Tier Covered Transactions, refers to transactions between District and vendors, as well as, any subcontractors that a vendor would enter into a contract with using these funds.

This certification is required by the regulations implementing Executive Orders 12549 and 12689, Debarment and Suspension, 2 CFR part 3485, including Subpart C Responsibilities of Participants Regarding Transactions (also see federal guidance at 2 CFR part 180).

**BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS BELOW.**

**CERTIFICATION**

The prospective lower tier participant certifies, by submission of this Certification, that:


- (1) Neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency;
- (2) It will provide immediate written notice to whom this Certification is submitted if at any time the prospective lower tier participant learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances;
- (3) It shall not knowingly enter any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated;
- (4) It will include the clause titled *Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion—Lower Tier Covered Transactions*, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions;
- (5) The certifications herein are a material representation of fact upon which reliance was placed when this transaction was entered into; and
- (6) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this Certification.

\_\_\_\_\_  
Legal Business Name

\_\_\_\_\_  
DUNS Number

\_\_\_\_\_  
Name of Authorized Representative

\_\_\_\_\_  
Title

  
\_\_\_\_\_  
Original Signature of Authorized Representative

\_\_\_\_\_  
Date

**Instructions for Certification**

1. By signing and submitting this Certification, the prospective lower tier participant is providing the certifications set out herein.
2. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue all available remedies, including suspension and/or debarment.
3. Except for transactions authorized under paragraph 3 above, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue all available remedies, including suspension and/or debarment.
4. The terms *covered transaction*, *debarred*, *suspended*, *ineligible*, *lower tier covered transaction*, *participant*, *person*, *primary covered transaction*, *principal*, *proposal*, and *voluntarily excluded*, as used herein, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549 and Executive Order 12689. You may contact the person to which this Certification is submitted for assistance in obtaining a copy of those regulations.
5. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the "GSAGovernment-Wide System for Award Management Exclusions" (SAM Exclusions) at [www.sam.gov](http://www.sam.gov).
6. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required herein. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.





American Family Insurance - Business Insurance  
Underwritten by: Midvale Indemnity Company  
A Wisconsin Stock Company

CRISTINA JAEGER AGENCY  
2020 S COLLEGE AVE UNIT A3  
FORT COLLINS, CO 80525  
(970) 229-9393

Information as of: 11/09/2024

## POLICY DECLARATIONS

This document and your policy contract define our insuring agreement. In return for payment of premium and subject to all the terms of this policy, we agree to provide you insurance as stated in the policy.

### Policy Information

**Named Insured:** SYSTEC101 LLC

**Policy Number:** BPP1032260

**Policy Type:** Business Owner's Policy (BOP)

**E-mail Address:** murat.yildirim@systec101.com

**Policy Period:** 11/09/2024 to 11/09/2025  
12:01AM Standard Time at  
Primary Location

**Phone:** (970) 646 - 2706

### Location Information

**Location Number: 1      Building Number: 1**

**Address:** 11871 E 33RD AVE UNIT B  
Aurora, CO 80010

#### Coverage Information (applies to Location Number: 1, Building Number: 1)

**Business Personal Property Limit:** \$25,306

**Deductible (applies per location, per occurrence):** \$500

**Windstorm or Hail Percentage Deductible (applies per location, per occurrence):** N/A

	Limit of Insurance	Deductible
<i>Other Coverage</i>		
<b>Accounts Receivable (On Premises / Off Premises)</b>	\$10,000/\$5,000	None
<b>Valuable Papers and Records (On Premises / Off Premises)</b>	\$10,000/\$5,000	None
<b>Outdoor Property</b>	\$2,500	None
<b>Business Income from Dependent Properties</b>	\$5,000	None
<b>Damage To Premises - Rented To You</b>	\$500,000	None
<b>Business Income &amp; Extra Expense</b>	12 months actual loss sustained	None

#### Additional Coverage (applies to Location Number: 1)

*Other Coverage*

**Fire Department Service Charge**  
**Money & Securities** (On Premises / Off Premises)  
**Equipment Breakdown**

**Limit of Insurance**

\$5,000  
\$5,000/\$5,000  
See policy form

**Deductible**

None  
\$500  
See policy form

## Policy Coverage (limits & deductibles shown are non-stackable across locations)

	Limit of Insurance	Deductible
<i>Liability Coverage</i>		
<b>Business Liability</b> (per-occurrence limit/annual aggregate limit):	\$2,000,000/\$4,000,000	None
<b>Medical Expenses</b> (per person)	\$5,000	None
<i>Property Coverage</i>		
<b>Business Income - Extended Period of Indemnity</b>	60 days	None
<b>Business Income - Payroll Expense</b>	60 days	None
<i>Other Coverages</i>		
<b>Electronic Data</b>	\$10,000	None
<b>Interruption of Computer Operations</b>	\$10,000	None
<b>Forgery or Alteration</b>	\$2,500	\$500

## Classification Information

Location	Class Code	Class Description	Exposure Basis	Exposure Amount
1	50925	Office Machines or Appliances - Retail - No Repair	LOI	\$25,306

<b>Policy Premium</b>	<b>\$1,494</b>
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## Premium Taxes, Surcharges and Fees (note: included in Policy Premium above)

Hazard Mitigation Fee	\$2
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## Discounts Applied to This Policy

Loss-Free  
Loyalty

## Policy Forms and Endorsements

ACORD 25 0316	CERTIFICATE OF LIABILITY INSURANCE
BP 00 03 07 13	BUSINESSOWNERS COVERAGE FORM
BP 01 81 03 15	COLORADO CHANGES
BP 04 02 07 13	ADDITIONAL INSURED - MANAGERS OR LESSORS OF PREMISES
BP 04 17 01 10	EMPLOYMENT-RELATED PRACTICES EXCLUSION
BP 04 48 07 13	ADDITIONAL INSURED - DESIGNATED PERSON OR ORGANIZATION
BP 04 83 01 10	REMOVAL OF INSURANCE-TO-VALUE PROVISION



BP 04 92 07 02	TOTAL POLLUTION EXCLUSION
BP 05 01 07 02	CALCULATION OF PREMIUM
BP 05 15 01 15	DISCLOSURE PURSUANT TO TERRORISM RISK INSURANCE ACT
BP 05 17 01 06	EXCLUSION - SILICA OR SILICA-RELATED DUST
BP 05 23 01 15	CAP ON LOSSES FROM CERTIFIED ACTS OF TERRORISM
BP 05 77 01 06	FUNGI OR BACTERIA EXCLUSION (LIABILITY)
BP 14 07 01 10	BUSINESS INCOME AND EXTRA EXPENSE - REVISED PERIOD OF INDEMNITY
BP 14 86 07 13	COMMUNICABLE DISEASE EXCLUSION
BP 15 04 05 14	EXCLUSION - ACCESS OR DISCLOSURE OF CONFIDENTIAL OR PERSONAL INFORMATION AND DATA-RELATED LIABILITY - WITH LIMITED BODILY INJURY EXCEPTION
BP 15 31 09 19	CANNABIS PROPERTY EXCLUSION WITH HEMP EXCEPTION
BP 15 33 09 19	CANNABIS LIABILITY EXCLUSION WITH HEMP EXCEPTION
BP 77 01 07 16	EQUIPMENT BREAKDOWN COVERAGE
BP 88 10 03 21	PUNITIVE DAMAGES EXCLUSION
BP 88 20 03 21	ASBESTOS EXCLUSION
BP 88 30 05 22	EXCLUSION - BIOMETRIC DATA, IDENTIFIERS OR INFORMATION
BP 88 40 03 21	ADDITIONAL INSURED - BLANKET
BP IN 01 07 13	BUSINESSOWNERS COVERAGE FORM INDEX
IL N 020 09 03	COLORADO FRAUD STATEMENT

In witness whereof, we have caused this policy to be signed by our authorized officers.

**Home Office**  
**MIDVALE INDEMNITY COMPANY**  
**6000 American Parkway**  
**Madison, WI 53783**



**Tony Desantis , Jr.**  
**President**



**Lauren K. Powell**  
**Secretary**