



Belden[®] Rack and Cabinet Systems Catalog





Our End-to-End Expertise Your End-to-End Solution Racks and Cabinets Cable Management Airflow Management Cabinet Power Distribution Units Monitoring (Power, Environment, Access)

Belden — the most trusted brand for reliable signal transmission solutions — offers a complete selection of racking, cabinets, power distribution units, monitoring and airflow management products to meet your infrastructure needs and optimize system performance.



Belden Infrastructure Solutions

Today's data center, broadcast, AV and security professionals must ensure that their infrastructure is highly available, scalable and flexible while also controlling operating expenses. These conflicting objectives have drawn attention to the performance of physical infrastructure elements, including heating and cooling, rack-level power, bandwidth and physical security management — all of which impact infrastructure availability and, therefore, mission-critical applications.

Belden understands the issues you face daily — cooling, power, density and security — and can help you capitalize on these opportunities by implementing the right blend of technologies to maximize the efficiency of your enterprise in a manner that complements your system's performance requirements today and into the future.

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Application Guide for Belden Cabinets

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	I			IN AIR					
Rack or Cabinet Style	Page Number	Enterprise Networking	Data Center/ Telco	Broadcast	AV	Security	Cable TV, Head End	Harsh Environment, Networking	General Purpose, Retail, Office, K-12, House of Worship, etc.
ХНМ	13	•	•		•	•	•		=
XHS	16	•	•						
XHSN	18	•	٠						
XHMS/XHSS*	27	•	•						
Passive/Active Containment	31	-	•						
XHN**	35							•	
XHW	39	•			•	•			•
XDR	43	•	•	•					•
XWR/XWB	46	•							•
XSW	47	•							•
XSF	52			•					
XMF	54			•					
ХМЕ	57			•	•	•	•		•
XMER	60			•	•	•	•		•
PDU	69	•	•	•	•	•	•	•	•

• = Primary Application

Secondary Application

* Seismic-certified cabinets.

** Production floor network equipment hosting.

Engineered to meet your specific needs.

Belden has leveraged its engineering and manufacturing expertise to bring you the most reliable cable, connectivity, cabinet and active systems solutions available — with the largest selection of products and the industry's most trusted technical support and service.

The products featured in this catalog of Infrastructure Solutions reflect the same quality and reliability you've come to expect from Belden for housing and storing data, broadcast, security and other equipment. Engineered for optimal cable routing, ease of installation and maximum convenience, Belden racks and cabinets have also been designed to match the unique requirements of various industries and applications.

This table will help you select the Belden rack and cabinet family that best suits your specific application. If you need a custom design for a special application, please call us for assistance. Our cable management teams have many years of experience in modifying and customizing cabinet designs to suit many different requirements.



Product Summary and Selection Guide

Infrastructure Product Family	Rack or Cabinet Style	Page Number	Application	Rack Unit	Width	Depth	Height	Equipment Mounting
Freestanding	хнм	13	Multi-Media and Server Cabinet	42, 45, 48RU	24", 30"	30", 36", 42", 48"	78.62" , 83.87" , 90"	19"
Modular Cabinets	хнѕ	16	Server, Networking and Switch Cabinets	42, 45, 48RU	30", 40"	42", 48"	78.62" , 83.87" , 90"	19"
	XHSN	18	Server, Networking and Switch Cabinets	42, 45, 48RU	30", 40"	42", 48"	78.62" , 83.87" , 90"	19"
XHMS 27		27	Seismic Server Cabinet	42, 45, 48RU	24", 30"	36", 42", 48"	78.62" , 83.87" , 90"	19"
	XHSS	27	Seismic Switch/Networking Cabinet	42, 45, 48RU	30", 40"	42", 48"	78.62" , 83.87" , 90"	19"
	XHN	35	NEMA 12 Cabinet	45RU	30"	36", 42"	84"	19"
XSF 52 Mobile		Mobile Broadcast Cabinet	10-48RU	19.2"	18", 24", 30"	20.5" to 87" (14 height options)	19"	
XMF 54 Broa		Broadcast Cabinets	11–57RU	22"	24", 30", 36", 40"	22.3" to 103" (26 height options)	19"	
	XME 57		Multi-Media Cabinet (fixed sides)	24–44RU	22"	20", 26.5"	48.9" to 83.9" (4 height options)	19"
	XMER	60	Multi-Media Cabinet (removable sides)	24–44RU	22"	26.5", 31.5", 36"	48.9" to 83.9" (4 height options)	19"
Wall-Mount Cabinets	хнw	39	Multi-Purpose Wall-Mount Cabinets	9, 12, 20RU	21", 23"	22.9", 27.5"	20.1", 25.3", 39.3"	19"
Distribution	XDR	41	Distribution Rack — 2-Post	45RU	20.3"	15"	84"	19"
Hacks	XDRS41Zone 4 SeisrBHRR41Distribution FXDR41Server RackXSW47Swing Rack		Distribution Rack — 2-Post (steel), Zone 4 Seismic Rated	44RU	24"	15"	84"	19"
			Distribution Rack — 2-Post (aluminum)	45RU	20.3"	15"	84"	19"
			Server Rack — 4-Post	45RU	20.3"	40", 44", 48"	84"	19"
			Swing Rack	43RU	34.4"	15"	84"	19"
			Wall-Mount Rack — Swing Out	19, 26RU	19.8"	18"	36", 48"	19"
	XWR/XWB	46	Wall-Mount Rack — Hinged	2, 4, 6RU	19", 19.5"	4", 9.5"	3.5", 7", 11"	19"



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Unique Offerings From Belden

End-to-End Infrastructure Solutions

Whether you're considering Belden racks and cabinets for use in a data center, broadcast studio, commercial enterprise, industrial facility or other application, it's important to look at the big picture. Chances are, you're managing a dynamic environment with evolving systems, technologies, logical architectures and business models. You need to ensure that your infrastructure is highly available, scalable and flexible while also controlling your operating expenses.

Manage Conflicting Objectives

These often-conflicting objectives focus attention on the performance of physical infrastructure elements, including heating and cooling, rack-level power, bandwidth and physical security management. The challenge is that these elements typically tend to work against each other. For example, as load is increased with high-density active equipment, the system's power and cooling requirements are increased and so are energy costs. Because these issues are directly interrelated, complications can arise from each system being manufactured, installed and supported by different vendors. That's why a systems approach for cost-effectively cooling, managing power usage and optimizing space usage is critical.

Belden Can Help

We optimize cooling, power and density opportunities because we have expertise in all three areas, offering solutions that effectively deal with all three at the rack/cabinet level.

Belden Offers:

- Airflow, power distribution and power- and climate-monitoring devices designed for high-density computing environments
- High-density racks, cabinets, copper and optical fiber cabling system components, and cable management solutions that enable maximum bandwidth and availability in an efficient footprint for better airflow and optimal use of real estate

BELDEN

Advantages of Belden End-to-End Infrastructure Solutions

- Greater convenience when the entire solution is from a single source
- Assurance that all components work together
- The most reliable product performance in the industry
- Dependable service and superior support
- The most trusted name in the industry with a large global sales and distribution network



SECURIT

Delivering complete

infrastructure solutions

BELDEN



⁷ Unique Offerings From Belden

Data Center Ready Solutions

Data centers require adequate planning to address equipment hosting, power and thermal management. Once active equipment has been chosen, the next step is to make sure you have infrastructure to support the availability and performance your active equipment needs to deliver. Belden's dedicated engineering and manufacturing resources will design, build and deliver cabinets that support and optimize the performance of your selected active equipment. The result is a turnkey solution from design to roll-out — on the data center floor. This service takes 100% of the



guesswork out of the design process, making it ideal for data center designers, consultants, system integrators, facility planners and managers.

Optimized Integration

- Single-source physical infrastructure solutions designed to work together to support the optimal performance of the selected active equipment
- Pre-configured equipment hosting solution with optimal mix of fiber and copper connectivity, cable managers and power distribution units (PDUs), along with airflow management for heat containment

Reduction of Deployment Time and Costs

- Pre-configured, design-validated and labeled cabinets are ready to receive servers or switches at the specific data center location (as per the assigned label)
- Best-in-class, pre-terminated fiber and copper systems, smart PDUs and active heat containment ensure fast deployment and reduced labor costs

Streamlined Logistics

- Simplified coordination of all equipment hosting-related tasks — all passive components arrive pre-installed
- Designs can be templated, saved, duplicated and modified for future use

Ease of Standardization

- Single part number ordering for a fully configured solution enables easy standardization, specification, ordering and simplified supply-chain hurdles
- Deployment control across single or multiple sites for consistency and standardization

Green Deployment

- Configured components are pre-installed to specific requirements, eliminating the need for individual packaging and reducing waste from cartons, boxes and plastics
- Consolidated shipping allows efficient packaging and a reduction in CO₂ footprints

Contact Belden Today

Belden engineers are ready to work with you to design your Data Center Ready Solution. Contact us now to start the process of delivering the optimal support environment for your active equipment.

Designing the optimal support environment

for your active equipment.



Customized Racks and Cabinets Meet the Unique Needs of Your Installation

In-House Design, Prototyping and Manufacturing

Belden's in-house engineering and stateof-the-art sheet-metal fabrication, powdercoating and silkscreening capabilities enable rack and cabinet production from raw materials to



finished goods. We can quickly develop — and deliver — technically sound, cost-competitive and compromise-free custom solutions to meet the challenges of your specific project.

Cellular-Based Manufacturing for Fast, Flexible Service

- Communicate project needs, goals and challenges directly to the Belden design team
- Customization available for quantities as low as 10 cabinets
- Quick-turnaround service only 4–6 weeks from concept to delivery

Varying Levels of Customization

- Custom paint-color matching and silk-screened logos
- Ability to modify standard cabinet frame sizes
- Complete design/build of project-specific cabinets in steel, aluminum or stainless steel



- NEMA-style cabinets for industrial networking and outdoor networking applications
- Kitting of racks or cabinets equipped with Belden and/or other manufacturers' components enable quick and easy logistics and deployment in applications like retail POS
- Integration of power, cable management, connectivity, cooling and climate monitoring systems into cabinets
- Cabinets designed for heat containment with ducting to support high-bandwidth blade servers and switches
- Rack power distribution unit (PDU) customization for specific numbers of receptacles, single- and three-phase power, and special overlays to enhance user experience
- Chimney containment customization to accommodate varying ceiling heights with options for passive or active sensors and fanbased units

Unequaled agility to develop and deliver compromise-free custom solutions.

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Features and Benefits of Belden Cabinets

Load Capacity

As data centers increase in density and bandwidth, with blade servers and high portcount switches, the need for higher-loadcapacity cabinets is a growing trend. Most Belden cabinets have a welded frame construction to accommodate static loads of up to 3,000 lbs.

To accommodate flexibility in data centers during initial installation, cabinets come with casters rated to dynamic loads of up to 2,250 lbs.

Modularity

A modular cabinet design accommodates frame widths from 22" to 40", heights from 42RU to 52RU and depths from 30" to 48" — all while



ensuring that cable management, power components and airflow management work seamlessly across different sizes. This modular approach enables field-upgradable changes to chimney containment systems, PDUs and cable management.

Scalability

With Zero U mounting options, fiber and copper connectivity in cabinets is scalable to address multiplegeneration connectivity needs for



servers and switches. Similarly, a broad portfolio of rack PDU offerings, from basic to 3-phase remote switched products, enables cabinets to support power requirements of multiplegeneration active IT gear.

Adaptability

A selection of vertical and horizontal cable managers capable of handling a wide range of cable and connectiv-ity density can be accommodated in the cabinets. The doors are field reversible with lift-off hinges.

In addition, the doors, top and bottom panels are configurable based on heat-management needs for hot-aisle/ cold-aisle configuration or chimney containment.







Environmental and Seismic

Belden's seismic cabinets are designed to pass Zone 4 Telcordia and/or NEBS requirements in seismic zones, offering a stable working base for servers and switches. Similarly, the NEMA cabinets can accommodate factory floor or other harsh-environment equipment hosting requirements.



Security and Intelligence

Cabinets can be configured with a key access or smart access system with lock control at the cabinet level or endof-row pod level.

IP-based airflow management and environmental monitoring and alarming systems and sensors offer maximum availability.

A wide selection of smart PDUs with power monitoring and switching options offer optimized power management and PUE measurement.







High-Capacity Hosting

The door is designed to provide low resistance to airflow passage and maximize the perforated surface with hexagonal 78% open perforated patterns.







Racks and Cabinets

Racks and Cabinets	10-47	BELDEN HESSE Adaptive Enclosure Hard Control	inment .
XHM Series – Multi-Media Cabinets	11-13	Automotive and a second s	23162
XHIN Series – Server, Networking and Switch Cabinets	14-17	Abric Californi 1,eer 20. Genetic 10. Servicing (d) AltPointer (M) The North California (d) AltPointer (d) AltPoin	
XHSN Series - Networking Cabinets	18-19	Comp Laid Heary Synam Reserve Heary	
XHM, XHS and XHSN Series Cabinets - Cable Management and Zero U Patching	20		T
XHM, XHS and XHSN Accessories	21		1
XHMS — Server Cabinets, XHSS — Networking Switch Cabinets	22-23		
Ladder-Rack-Style Cable Runways	24-25		1
Open Bridge Racks	26		
Heat Containment Systems	27-32		1
XHN Series — NEMA 12 Cabinets	33-34		
XHW Series — Wall-Mount Cabinets	35-37		1
SecurePatch	38		
Consolidation/MDU Enclosures: In-Suite Distribution	39		
Zone Enclosures	40		
2- and 4-Post Distribution Rack Systems	41-45		
XWR and XWB Series — Wall-Mount Racks	46		1
XSW Series — Swing Racks	47		

Seamlessly integrate power distribution, airflow containment and management, networking connectivity and **cable management into one comprehensive cabinet solution** —

optimizing data center hosting conditions for servers and switches.

Specific Solutions for a Wide Array of Applications

As the premier supplier of cable and connectivity systems, Belden has leveraged its networking skills, engineering expertise and end-user experience to provide a broad portfolio of racks and cabinets that address security, availability and efficiency challenges.

With the X Series (XHM, XHS), Belden offers a cabinet solution that seamlessly integrates power distribution, airflow containment and management, networking connectivity and cable management to provide optimized hosting conditions for today's servers and switches. Designed to work seamlessly with Belden's market-leading fiber and copper connectivity solutions, the X Series vertical and horizontal cable management system supports high cabling/connectivity density while supporting easy moves, adds and changes.

Shipped fully assembled and configured to exact end-user requirements, the X Series modular design includes a myriad of options for doors, side panels, airflow through passive chimneys or active AEHC units and PDU mounting for easy installation and reconfiguration. Single part number ordering permits standardization and steamlined logistics. Belden XHM (Server) and XHS (Server, Networking) cabinets reduce data center operational costs by:

- Offering a modular and scalable system that adapts to changing requirements for hosting multiple generations of IT equipment
- Enabling seamless heat-containment integration for reduced energy consumption
- Providing ganging compatibility for flexible arrangements in distributed, end-of-row or in-row switching environments
- Featuring a rigid yet light-weight door design with an integrated punched hexagonal pattern that offers an opening of 78% for superior airflow. A patent-pending hinge provides maximum security and flexibility with a dual 270-degree swing.

XHM Series – Multi-Media, Server Cabinets

Value-minded but versatile and feature-rich

Applications

With multiple cabinet footprints to better suit your space and application needs, the XHM Series is ideal for security, broadband, enterprise networking and data center applications. Its basic yet highly functional construction makes for a technically sound and economical cabinet system.

Design and Structural Features

- Perforated door mesh opening: 78%
- Patented dc secure door hinge: Dual 270° swing prevents aisle blocking for end-of-row cabinets
- UL 2416 Listed
- Frame construction: Welded 14 gauge
- Fixtured and robotic welded for squareness (after frame construction)
- Mounting-rails construction: 12 gauge, marked RU, RU 1 is at the bottom of the cabinet
- Static load capacity: 3,000 lbs
- Capacity on casters: 1,080 lbs on regular-capacity casters; 2,250 lbs with high-capacity casters
- EIA 310 compliant: 19" mounting standard with optional 23" mount for 30" wide cabinets
- Vertical cable management options (See pages 20-21 for XHM Series Cabinet Accessories)
- Horizontal cable management options (See page 65 for Accessories)
- Tool-less PDU mounting options (See page 75)
- Heat containment options (See pages 27-32)
- Engineered and made in the United States





Part No. shown: XH7M451300000 (45RU x 30" W x 42" D)

XHM Series Type	XH1M42	XH2M42	XH3M42	XH4M42	XH1M45	XH2M45	XH3M45	XH4M45	XH1M48	XH2M48	XH3M48	XH4M48	
Dimensions: W x D x H (of Frame)	24" x 30"	24" x 36"	24" x 42"	24" x 48"	24" x 30"	24" x 36"	24" x 42"	24" x 48"	24" x 30"	24" x 36"	24" x 42"	24" x 48'	
Dimensions: w x D x H (or Frame)	x 78.85"	x 78.85"	x 78.85"	x 78.85"	x 84.00"	x 84.00"	x 84.00"	x 84.00"	x 89.25"	x 89.25"	x 89.25"	x 89.25"	
Available Mounting Rack Units (RU)	42RU			45RU				48RU					
Front Frame Opening (W x H)		21.25" >	(73.85"		21.25" x 79.10"				21.25" x 84.35"				
Depth with Two Perf. Doors	33.75"	39.75"	45.75"	51.75"	33.75"	39.75"	45.75"	51.75"	33.75"	39.75"	45.75"	51.75"	
Usable Depth (1)	28.75"	34.75"	40.75"	46.75"	28.75"	34.75"	40.75"	46.75"	28.75"	34.75"	40.75"	46.75"	
Single Door Perforated Area		1365	1365 sq. in.			1465 sg. in.				1565 sg. in.			

Note: (1) Standard Cabinet w/ curved perf front door & split perf rear door (2) Distance from front-most mounting rail face to inside of rear frame (3) Based on curved perf door

30" Wide Cabinets

XHM Series Type	XH5M42	XH6M42	XH7M42	XH8M42	XH5M45	XH6M45	XH7M45	XH8M45	XH5M48	XH6M48	XH7M48	XH8M48
Dimensions: W x D x H (of Frame)	30" x 30" x 78.85"	30" x 36" x 78.85"	30" x 42" x 78.85"	30" x 48" x 78.85"	30" x 30" x 84.00"	30" x 36" x 84.00"	30" x 42" x 84.00"	30" x 48" x 84.00"	30" x 30" x 89.25"	30" x 36" x 89.25"	30" x 42" x 89.25"	30" x 48" x 89.25"
Available Mounting Rack Units (RU)	42RU			45RU				48RU				
Front Frame Opening (W x H)		27.25" x 73.85"			27.25" x 79.10"			27.25" x 84.35"				
Depth with Two Perf. Doors	33.75"	39.75"	45.75"	51.75"	33.75"	39.75"	45.75"	51.75"	33.75"	39.75"	45.75"	51.75"
Usable Depth (1)	28.75"	34.75"	40.75"	46.75"	28.75"	34.75"	40.75"	46.75"	28.75"	34.75"	40.75"	46.75"
Single Door Perforated Area	1805 sq. in.				1935 sq. in			2065 sq. in.				

Note: (1) Standard Cabinet w/ curved perf front door & split perf rear door (2) Distance from front-most mounting rail face to inside of rear frame (3) Based on curved perf door





Notes

Racks and Cabinets

- Frame includes casters, levelers, ganging hardware, grounding studs in frame base front/rear.
- 2) Other colors and silk-screening options available for volume orders.
 3) Includes two pairs of 19" mount EIA rails (marked RU, 1 bottom)
- with mounting hardware (qty = 50). 6 mm hardware standard with square rails. 30" wide cabinet uses wide EIA rails featuring three removable knock out per rails. Brush frame for knock out ordered separately. Knock out compatible with zero mounting of standard 1U patch panel.
- 4) Default front rail position 3.0" from cabinet face and 24" between rails for 30" and 36" deep, 30" between rails for 42" and 48" deep.
- 5) Custom top panel available for volume orders.
- 6) Fan top panel included, 10" dia., 550 CFM fan (120V).
- 7) Heat containment top (42" and 48" deep only) ready
- to accept passive or active containment chimney. 8) Front and rear doors include latching handle with key
- lock and bonding strap. Refer to Cabinet Access System Section for other access options.
- 9) Single door swings left to right and is field reversible
- 10) Side panel includes embossed key lock and bonding strap. Side panel made of a lower and upper panel. Side panels are flush, do not add width to cabinet; can be used as separator panel between cabinets.
- Bottom brush panel can be rotated 180° for choice of front or rear brush entry.
- 12) Top panel Styles 3 and 6 have 78% open area hexagonal perforated pattern within the borders shown in the images above.

XHM Series - Individual Component Ordering Options



EIA Mounting Rails

Includes two pairs of rails and mounting hardware (50). Default hardware for cage nut style rails is M6. Black only. EIA 23" mount available on custom request for 30" wide cabinet.







XHM Series - Options (continued)



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BELDEN



Part No. shown: XH1S451100000 (45RU H x 30" W x 42"D)



Part No. shown: XH2S451121110 XHS Cabinet with optional Zeru U patch panel (30"W x 48"D x 45RU), rear view.

XHS Series – Server, Networking and Switch Cabinets

Supports high load capacities and proper airflow management



Aesthetics

- Designed and manufactured in the United States, and fully customizable to meet specific equipment hosting challenges
- Available in central office white for improved internal visibility and reduced lighting needs
- 270-degree door swing means doors won't block aisles on end-of-row cabinets

Construction

- Welded 14-gauge frame and 11-gauge mounting rails support a static load of 3,000 lbs (2,250 lbs on high-capacity casters) to host a full rack of blade servers
- Cabinet frames are fixtured and robotically welded for optimal squareness
- Rail seal and adaptive containment eliminate hotspots and provide energy efficiency, monitoring and alarming
- Designed and tested for use with Belden fiber and copper networking solutions

Ease of Installation

- Modular design with options on doors, side panels, airflow management, cable management and PDU monitoring, offering easy installation and scalability
- Doors can easily be removed and oriented for left or right swing to suit application needs
- Highly integrated and shipped fully assembled with power, airflow, connectivity and cable management
- Optimal physical density and networking bandwidth for easy moves, adds and changes

Cable and Airflow Management

- XHS Series cabinets are available in 30" and 40" wide versions for optimal server and switch hosting; intake and exhaust duct options allow side-to-side gears hosting
- Integrated punched hexagonal pattern is 78% open for low-resistance airflow through doors (legacy doors available upon request)
- Front rail seals enable physical separation of supply and return air for optimized hot/cold aisle and containment deployment
- 42" and 48" deep versions easily host deep equipment chassis with rear space for power and cable management
- Available in 42, 45 and 48RU for a variety of hosting requirements

Containment and Power Distribution

- Complete lineup of IP-based power distribution units (PDUs) with available monitoring, alarming and receptacle-level switching
- Enables up to 30 kW per cabinet with Belden's innovative passive and adaptive (AEHC) chimney-based containment systems

XHS Series - Server Cabinets (continued)

XHS Series Specifications

- Perforated door mesh opening: 78%
- Patented hinge design: Secure, dual 270° swing
- UL 2416 Listed
- Frame construction: Welded 14 gauge
- Fixtured and robotically welded for squareness
- Mounting rails construction: 11 gauge, marked RU, RU 1 is at bottom of cabinet
- Static load capacity: 3,000 lbs

30" Wide Cabinets

- Capacity on casters: 1,080 lbs on regular capacity casters; 2,250 lbs with high-capacity casters
- EIA 310 compliant: 19" mounting
- Vertical cable management options
- (See pages 20-21 for X Series Cabinet Accessories)Horizontal cable management options
- (See page 65 for Accessories)
- Zero U Vertical patch panel (See page 20-21)
- Tool-less PDU mounting options
 (See page 75)
- Heat containment options (See pages 27-32)
 - Engineered and made in the United States

XHS Series Type	XH1S	XH2S	XH1S	XH2S	XH1S	XH2S	
Available Mounting Rack Units (RU)	42	RU	45	RU	48RU		
Dimensions: W x D x H (of frame)	30" x 42" x 78.85"	30" x 48" x 78.85"	30" x 42" x 84.00"	30" x 48" x 84.00"	30" x 42" x 89.25"	30" x 48" x 89.25"	
Front Frame Opening (W x H)	27.25" >	< 73.85"	27.25" :	x 79.10"	27.25" x 84.35"		
Depth w/ two Perf. Doors (1)	45.75" 51.75"		45.75"	51.75"	45.75"	51.75"	
Usable Depth (2)	40.75"	46.75"	40.75"	46.75"	40.75"	46.75"	
Single Door Perf Area (3)	1805	sq. in.	1935	sq. in	2065 sq. in.		
Note: (1) Standard Cabinet w/ curved perf front door & split perf rear door (2)	Distance from front ma	et mounting rail face to i	anida of roor frama (2)	and on oursed part day	- -		

Note: (1) Standard Cabinet w/ curved perf front door & split perf rear door (2) Distance from front-most mounting rail face to inside of rear frame (3) Based on curved perf door

40" Wide Cabinets

XHS Series Type	ХНЗЅ	XH4S	XH3S	XH4S	XH3S	XH4S	
Available Mounting Rack Units (RU)	42	RU	45	RU	48RU		
Dimensions: W x D x H (of frame)	40" x 42" x 78.85"	40" x 48" x 78.85"	40" x 42" x 84.00"	40" x 48" x 84.00"	40" x 42" x 89.25"	40" x 48" x 89.25"	
Front Frame Opening (W x H)	37.25" >	< 73.85"	37.25" >	k 79.10"	37.25" x 84.35"		
Depth w/ two Perf. Doors (1)	45.75" 51.75"		45.75"	51.75"	45.75"	51.75"	
Usable Depth (2)	40.75"	46.75"	40.75"	46.75"	40.75"	46.75"	
Single Door Perf Area (3)	2652	sq. in.	2782	sq. in.	2912 sq. in.		

Note: (1) Standard Cabinet w/ curved perf front door & split perf rear door (2) Distance from front-most mounting rail face to inside of rear frame (3) Based on curved perf door

XHS Series – Configured Cabinets

Belden will configure cabinets to your exact requirements. The following are commonly requested configured cabinets.

Please contact your sales representative to discuss your specific needs.

		Frame Size		e				[Doors				Vertica	al Mngr.
Item	Part #	Width	Depth	Height	Color	Rails	Top Panel	Front	Rear	Side Panel	Bottom Panel	Lacing/PDU Panel	Fingers on Rail	Box-Style Finger Mngr.
1	XH1S45-C1000	30	42	45RU	Black	Square Rails	Brush Front/Rear	Perf.	Split Perf.	1 Solid	Open	2 x 3" + 2 x 7" Rear	No	No
2	XH2S45-C1000	30	48	45RU	Black	Square Rails	Brush Front/Rear	Perf.	Split Perf.	1 Solid	Open	2 x 7" Rear	No	Rear Rails
3	XH2S45-C1001	30	48	45RU	Black	Square Rails	Brush+Chimney Ready	Perf.	Split Solid	1 Solid	w/brush	2 x 7" Rear	No	Rear Rails
4	XH1S45-C2000	30	42	45RU	CO White	Square Rails	Brush Front/Rear	Perf.	Split Perf.	1 Solid	Open	2 x 3" + 2 x 7" Rear	No	No
5	XH2S45-C2000	30	48	45RU	CO White	Square Rails	Brush Front/Rear	Perf.	Split Perf.	1 Solid	Open	2 x 7" Rear	No	Rear Rails
6	XH2S45-C2001	30	48	45RU	CO White	Square Rails	Brush+Chimney Ready	Perf.	Split Solid	1 Solid	w/brush	2 x 7" Rear	No	Rear Rails





- 3) Includes two pairs of 19" mount EIA rails (marked RU, 1 at bottom) with mounting hardware (qty = 50). 6 mm hardware standard with square rails.
- 4) Default front rail position 3" from cabinet face and 30" between front and rear rails
- containment chimney. 8) Front and rear doors include latching handle with key lock and bonding strap. Refer to Cabinet Access System Section for other
- access options. 9) Single door swings left to right and is field reversible. Refer to Cabinet Access System Section for other access options.
- Side panel made of a lower and upper panel. Side panels are flush, do not add width to cabinet; can be used as separator panel between cabinets.
- 11) Bottom brush panel can be rotated 180° for choice of front or rear brush entry.

XHS Series – Individual Components Ordering Options

Top Panel Sections

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Side/Separator Panel

Side panel includes embossed key lock and bonding strap. Side panel made of a lower and upper panel. Side panel are flush, do not add width to cabinet and can be used as separator panel between cabinets.







XHS Series - Options (continued)

EIA Mounting Rails Door with Lock Latch Handle Includes two pairs of rails and mounting hardware (50). Default hardware for cage nut style rails is M6. HS RLS Н D Frame Height Frame Width Mounting Rail Type Frame Width Frame Depth Frame Height Door Style Color CN6 EIA Rail 6 mm Cage Nut 42 42RU 30 30' CP Curved Perforated 01 Black 30 30 42 42 42RU 40 40 1032 EIA Rail 10-32 tap 45 45RU 40 40' FP Flat Perforated 02 CO White 48 45 45RU 1224 EIA Rail 12-24 tap 48 48RL SP Split Perforated 48 48RU S Solid SS Split Solid **Cabinet Frame Cabinet Bottom Cover Bottom Seal Skirt** When panel with brush is selected, will ship with Front and side skirt allow sealing below Do not include rails, levelers and casters brush in cabinet rear. cabinets when on levelers. HS BC S н Н Color Skirt Style Colo Cable Skirt Width Colo Frame Height Frame Depth Frame Width Access Width 01 Black Depth 01 Black Bottom Front 01 В Black S Bottom Side 02 CO White 42 42RU 30 30" 42 42' 02 CO White 30 30" 42 42" S Solid 02 CO White 30 30" 45RU 40" 48' 40 40" 45 40 48 40 40" 48 48" WB w/Brush 48 48RU 42 42" 48 48" **XHS Series – Accessories** Front Rail Air Blocker Front to Rear Cable Manager **Finger Strip Kit** Adjustable-depth front to rear cable managers Cable management fingers mount to front and/or rear EIA rails. Single Finger *For One Rail Manager **RSK** HS **HFRM HSFS** Color Cold Height Width 01 Black Height 01 Black 02 CO White 42 42RU 30 30" 02 CO White 42 42RU HFRM 40 40" 45 45RU 45 45RU 48 48RU 48 48RU **Other Accessories Top Cable Trough with Cover** Belden Part Number Description Front rail air blocker cable pass through brush kit н ТΤ Brush kit (1) for 30" wide XHS rail air blocker, Black HRSBK01 Brush kit (1) for 30" wide XHS rail air blocker, White HRSBK02 Frame Width Color XHS cabinet top frame brush kit 30 30 01 Top Cable Trough 40 40 02 CO White Brush Kit (1) for front knockout top, 30" wide cabinet, Black HSTBK30101 with Cover Brush Kit (1) for front knockout top, 30" wide cabinet, White (8.5" W x 4.0" H) HSTBK30102 Brush Kit (1) for middle knockout top, 30" wide cabinet, Black HSTBK30201 Brush Kit (1) for middle knockout top, 30" wide cabinet, White HSTBK30202 Brush Kit (1) for rear knockout top, 30" wide cabinet, Black HSTBK30301 Brush Kit (1) for rear knockout top, 30" wide cabinet, White HSTBK30302 Brush Kit (1) for front or rear knockout top, 40" wide cabinet, Black HSTBK40101 Brush Kit (1) for front or rear knockout top, 40" wide cabinet, White HSTBK40102

Brush Kit (1) for middle knockout top, 40" wide cabinet, Black Brush Kit (1) for middle knockout top, 40" wide cabinet, White HSTBK40201

HSTBK40202



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XHSN Series – Networking Cabinets

Aesthetics

- Designed and manufactured in the United States, and fully customizable to meet specific equipment hosting challenges
- Available in central office white for improved internal visibility and reduced lighting needs
- 270-degree door swing means doors won't block aisles on end-of-row cabinets

Construction

Designed to handle dense patching field while ensuring proper airflow

- Welded 14-gauge frame and 11-gauge mounting rails support a static load of 3,000 lbs (2,250 lbs on high-capacity casters) to host a full rack of blade servers
- Cabinet frames are fixtured and robotically welded for optimal squareness
- Designed and tested for use with Belden fiber and copper networking solutions

Ease of Installation

- Modular design with options on doors, side panels, airflow management, cable management and PDU monitoring, offering easy installation and scalability
- Doors can easily be removed and oriented for left or right swing to suit application needs
- Highly integrated and shipped fully assembled with power, airflow, connectivity and cable management
- Optimal physical density and networking bandwidth for easy moves, adds and changes

Cable and Airflow Management

- XHSN Series cabinets are available in 30" and 40" wide versions for optimal cabling capability
- Top design with several large cable entry knockouts allows for entry of large cable bundles into the cable management space inside the cabinet
- Cable management fingers are installed on each EIA rail to provide organized cable entry into the rack space
- Integrated punched hexagonal pattern is 78% open for low-resistance airflow through doors (legacy doors available upon request)
- Front rail seals enable physical separation of supply and return air for optimized hot/cold aisle and containment deployment
- 42" and 48" deep versions easily host deep equipment chassis with rear space for power and cable management
- Available in 42, 45 and 48RU for a variety of hosting requirements

Power Distribution

- Complete lineup of IP-based power distribution units (PDUs) with available monitoring, alarming and receptacle-level switching
- Enables up to 30 kW per cabinet with Belden's innovative passive and adaptive (AEHC) chimney-based containment systems





Cabinet Access System Section for other access options.

XHSN Series – Individual Components Ordering Options

Top Panel Sections



Belden Part Number
HSNTBK30101
HSNTBK30102
HSNTBK30201
HSNTBK30202
HSNTBK40101
HSNTBK40102
HSNTBK40201
HSNTBK40202

For additional individual components see the standard XHS cabinet accessories section

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Racks and Cabinets

Finger Style Vertical Manager



Vertical Manager shown in cabinet

XHM, XHS and XHSN Series Cabinets – Cable Management and Zero U Patching

Belden's XHM, XHS and XHSN Series cabinets and cable management components were specifically designed for integration with the Belden IBDN copper and fiber networking system for a true end-to-end solution.

The combination of Belden's extensive cable and connectivity design knowledge and years of interaction with installers and system designers allows us to offer:

Features

- A broad selection of modular vertical and horizontal cable managers in configurations that meet your exact requirements for compromise-free hosting
- Flexibility to meet customer needs requiring low to extremely high networking/hosting density
- Modular cable management components and cabinets that protect your investment because they can be reconfigured to meet evolving hosting requirements (typical cabinet system will play host to three to five generations of active equipment)
- Vertical managers that enable easy moves, adds and changes, making management of your network fast and precise while still allowing you to maintain an organized, consistent look
- A cable management system designed to maintain proper cable bend radius and minimal tension through the use of support fingers, an attachment point for cable bundles and a slack management spool ensure maximum bandwidth from your copper and fiber networks

See page 65 for Horizontal Cable Management options.

Vertical Lacing/PDU Mounting Panel*

- Manager panel 7" and 3.5" wide
- Mounts on rail struts for depth adjustability
- Panels can be mounted side by side to create manager surface
- Tool-less PDU mounting
- Lacing of cable bundles
- Attachment of ring managers
- Attachment of slack management spools
- Attachment of quick-mount base

*Lacing-PDU mounting panels (pages RC-13 and 67) are not included with cabinets or PDUs and need to be ordered separately. PDUs/panels uses tool-less "button"-style mounting.

Finger Style Vertical Managers

- Mounts on rail struts for depth adjustability
- Compatible with 30" wide cabinets
- Can be used in cabinet front and rear
- Includes doors to hide cables and provide an organized look
- Vertical manager can be oriented two different ways to optimize cable routing

Finger Style Features:

- 4" wide x 6" deep for 24 sq. in. of cross-sectional area
- For medium- and high-density applications
- Management fingers align with mounting rail RU
- Finger allows for cable support and bend radius control
- Oblong opening allows cable routing into the manager



XHM, XHS and XHSN Series - Accessories

Vertical Lacing/PDU Mounting Panel



Vertical Manager — Finger Style With door.



Other Accessories

Description	Belden Part Number
Ring Kits	•
Cable Management Ring Plastic (Qty = 5) 3" x 1.5" Reversible	XMR01
Cable Management Ring Kit (Qty = 5) 6.5" Wide x 3" Deep	XMR02
Cable Management Ring Kit (Qty = 5) 2.5" Wide x 3" Deep	XMR03
Fiber Slack Management Spools 6" deep (includes 2 spools)	BHSP020
Fiber Slack Management Spools 2" deep for lacing panels (includes 2 spools)	BHSP030
Quick Mount Base (Qty = 10) includes Fastener, for 1/4" Holes	XTCM01
Velcro Cable Ties, 25 per Roll, 8"L	AX100783
Velcro Cable Ties, 25 per Roll, 12"L	AX100784
Vertical Ground Bars	
Vertical Ground Bar, Isolated, 42RU	HVGB0142
Vertical Ground Bar, Isolated, 45RU	HVGB0145
Vertical Ground Bar, Isolated, 48RU	HVGB0148
Miscellaneous	
Casters Kit (4), regular-capacity 1,080 lbs	XCK01
Casters Kit (4), high-capacity 2,250 lbs	XCK02
Levelers Kit (4)	XLK01
Bolt-together kit for cabinets	XBK01



Zero U – Vertical Patch Panel and Connectivity

Features

- Attach to mounting rails
- Vertical patch panels are compatible with Belden copper and fiber connectivity (FX UHD, FX Ultra Frames and Cassettes)



Description	Belden Part Number
Zero U — Vertical Patch Panel and Connectivity	
Vertical Patch Panel (7 positions), Compatible with XHS Cabinets	XZUK01
Vertical Patch Panel (14 positions), Compatible with XHS Cabinets	XZUK02
FXUHD KeyConnect Frame Blank	FFZH00BB
FXUHD KeyConnect Frame 6-Port, Black (Empty)	FFZH06KC
FXUHD KeyConnect Frame 8-Port, Black (Empty)	FFZH08KC
10GX KeyConnect Couplers for Vertical Mount Patch Panel, 8-Port, Black	AX105366
CAT6+ KeyConnect Couplers for Vertical Mount Patch Panel, 8-Port, Black	AX105367



Belden Zero U Vertical patch panel allows for optimal use of mounting space into XHS Series cabinets by providing high-density connectivity options along equipment mounting rails.



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XHMS - Server Cabinets, XHSS - Networking Switch Cabinets

Certified to Seismic Zone 4 for mission-critical data centers

Applications

Belden's seismic cabinets feature robust steel frames for hosting servers, switches and network components in earthquake zones. Certified to Seismic Zone 4 requirements, these cabinets have passed vibration and shock testing per GR-063-CORE Network Equipment Building System (NEBS) requirements with no structural damage in a certified lab.

Design and Structural Features

- Welded steel frame construction reinforced with a heavy-gauge steel sub-frame for extra rigidity
- Highly perforated doors with stiffener channels ensure sturdiness while reducing risk of equipment damage during seismic events
- Adjustable EIA mounting rails support a 2,000 lb static load under normal operating conditions
- Finger-style vertical managers with brushed cable pass throughs enable front-to-rear routing while maintaining supply-return air sealing properties
- Compatible with passive and active chimneybased containment solutions
- Pre-configured switch cabinets with cable management, air baffles, intake and exhaust duct (for side-to-side venting) and power distribution units (PDUs) to host Cisco Catalyst 6000 and Nexus 7000 Series switches
- Offered in standard colors of black and central office white
- Integral anchoring floor mount locations*
 *Belden recommends the use of a qualified contractor for the installation of seismic cabinets as per the local, state and federal building code requirements.



XHMS and XHSS Series Specifications

- Perforated door mesh opening: 78%
- Frame construction: 14-, 12- and 11-gauge welded steel
- Mounting rail construction: 12-gauge, marked RU, RU 1 is at bottom of cabinet
- Static load capacity: 2,000 lbs
- Static load capacity (seismic): 1,000 lbs
- Seismic certification: Zone 4 NEBS GR-063-CORE
- EIA 310 compliant: 19" mount equipment
- Horizontal cable management options
 (See page 65 for Accessories)
- Heat containment options (See pages 27-32)





Racks and Cabinets



 Cabinet static load capacity is 2,000 lbs, cabinet seismic load capacity is 1,000 lbs; BELLCORE GR-63-CORE, Section 5.4.1 Certification.

to EIA-310-D requirements.

"swing handle" hardware, allowing changing of locksets.

BELDEN

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Ladder-Rack-Style Cable Runways

Speed up deployment time and maximize space with our runway systems, which are designed to optimize cable bandwidth and support maximum cabling density.











Design and Structural Features

- Complete line of ladder-rack-style runways and accessories
- Perfect complement to Belden cables for end-to-end solutions
- Belden runways and accessories have direct match/cross to most competitor brands and use the same installation practices
- Fully compatible with most ladder rack brands
- Belden runways are available from stock with a 5- to 8-day lead time for black. Extended lead times for white (6-8 weeks ARO)
- Competitively priced
- Patent-pending quick-bond Splice Kit systems allow sections of runway to be electrically bonded without a bonding strap

Ladder Runway Types/Dimensions

- Universal, TELCO and UL-style runways
- 12", 18" and 24" wide selections
- Overall length = 10' (individually boxed)
- Side stringer = 1.5" x 0.375" x 0.065"
- Cross member = 1.5" x 0.375" x 0.065" welded

Accessories

- Butt splice patent pending
- Junction splice patent pending
- Corner bracket
- Retaining post
- Wall to rack kit
- Radius bend E-Bend
- L-Den
- J-bolts



Ladder-Rack-Style Cable Runways (continued)

Universal-Style Cable Runways

Description	Belden Part Number
12" Universal Cable Runway - Black	BLRS250-12B
18" Universal Cable Runway - Black	BLRS250-18B
24" Universal Cable Runway - Black	BLRS250-24B
12" Universal Cable Runway - White	BLRS250-12W
18" Universal Cable Runway - White	BLRS250-18W
24" Universal Cable Runway - White	BLRS250-24W
Universal-Style Cable Runway	BLRS250-XXY

XX = 12, 18, 24"; Y = B (Black), W (White) - Extended lead times for white (6-8 weeks ARO)

Cable Runway - E-Bend - UL Classified

Description	Belden Part Number
12" Cable Runway E-Bend UL Classified - Black	BLEB822-12B
18" Cable Runway E-Bend UL Classified - Black	BLEB822-18B
24" Cable Runway E-Bend UL Classified - Black	BLEB822-24B
12" Cable Runway E-Bend UL Classified - White	BLEB822-12W
18" Cable Runway E-Bend UL Classified - White	BLEB822-18W
24" Cable Runway E-Bend UL Classified - White	BLEB822-24W

Extended lead times for white (6-8 weeks ARO)

Cable Runway Corner Bracket

BLCSB959-15B
BLCSB959-24B
BLCSB959-15W
BLCSB959-24W
-

Extended lead times for white (6-8 weeks ARO)

3" Channel Rack-to-Runway Mounting Plate

Description	Belden Part Number
3" Channel Rack-to-Runway Mounting Plate - 9-12" Width	BLRTR595-9B
3" Channel Rack-to-Runway Mounting Plate - 15-18" Width	BLRTR595-15B
3" Channel Rack-to-Runway Mounting Plate - 24-27" Width	BLRTR595-24B

Triangular Support Bracket Kit, Aluminum

Description	Belden Part Number
12" Triangular Support Bracket Kit, Aluminum	BLTSB312-12B
18" Triangular Support Bracket Kit, Aluminum	BLTSB312-18B

Triangular Support Bracket, Steel

Description	Belden Part Number
12" Triangular Support Bracket, Steel	BLTSB746-12B
18" Triangular Support Bracket, Steel	BLTSB746-18B

Wall Angle Support Kit, Cable Runway

Description	Belden Part Number
12" Wall Angle Support Kit, Cable Runway	BLWAS421-12B
18" Wall Angle Support Kit, Cable Runway	BLWAS421-18B
24" Wall Angle Support Kit, Cable Runway	BLWAS421-24B

Cable Runway Radius Drop - Cross Member & Stringer

Description	Belden Part Number
Cable Runway Radius Drop - Cross Member - 12" Runway	BLRRD100-12B
Cable Runway Radius Drop - Cross Member - 18" Runway	BLRRD100-18B
Cable Runway Radius Drop - Stringer - TELCO Style Runway	BLRRD101-12B

TELCO-Style Cable Runways

Description	Belden Part Number
12" TELCO Cable Runway - Black	BLRT252-12B
18" TELCO Cable Runway - Black	BLRT252-18B
24" TELCO Cable Runway - Black	BLRT252-24B
12" TELCO Cable Runway - White	BLRT252-12W
18" TELCO Cable Runway - White	BLRT252-18W
24" TELCO Cable Runway - White	BLRT252-24W
TELCO-Style Cable Runway	BLRT252-XXY

XX = 12, 18, 24"; Y = B (Black), W (White) - Extended lead times for white (6-8 weeks ARO)

Radius Bend

Description	Belden Part Number
12" 90° Radius Bend - Black	BLOR723-12B
18" 90° Radius Bend - Black	BLOR723-18B
24" 90° Radius Bend - Black	BLOR723-24B
12" 90° Radius Bend - White	BLOR723-12W
18" 90° Radius Bend - White	BLOR723-18W
24" 90° Radius Bend - White	BLOR723-24W
Extended lead times for white (6-8 weeks AR0)	

Splice Kits (Patent Pending)

Description	Belden Part Number
UL Classified Butt-Splice Kit - Black	BLBSU301-15B
UL Classified Junction-Splice Kit - Black	BLJSU302-15B
UL Classified Butt-Swivel Splice Kit - Black	BLBSS487-0UB
UL Classifeid Junction Splice Kit - Black	BLBSS488-0UB
UL Classified Vertical-Swivel Splice Kit - Black	BLVBS489-0UB

Cable Runway End Cap

Description	Belden Part Number
Cable Runway End Cap	BLPEC642-002

Cable Runway Elevation Kit

Description	Belden Part Number
Cable Runway Rack Elevation Kit - 2", 2.5", 3" Elevation - Black	BLREK506-02B
Cable Runway Rack Elevation Kit - 4", 5", 6" Elevation - Black	BLREK506-04B
Cable Runway Rack Elevation Kit - 10", 11", 12" Elevation - Black	BLREK506-06B
Cable Runway Cabinet Elevation Kit - 2", 2.5", 3" Elevation - Black	BLREK506-12B
Cable Runway Cabinet Elevation Kit - 4", 5", 6" Elevation - Black	BLREK506-16B
Cable Runway Cabinet Elevation Kit - 10", 11", 12" Elevation - Black	BLREK506-18B

Runway Center Support Kit

Part Number
BLCSK362-12B
BLCSK362-18B
BLCSK362-24B

Cable Runway Foot Kit

Description	Belden Part Number
Cable Runway Foot Kit	BLFK309-01B

Retaining Post for Cable

Description	Belden Part Number
Cable Retaining Post, 6", Single Black	BLCRP596-06B
Cable Retaining Post 6" Otv = 50 Black	BLCBP596-56B



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Open Bridge Racks

The Open Compute Project (OCP) initiative aims to create the most energy-efficient data center - one that is able to handle and manage the upcoming spike of people and data - while controlling costs and energy consumption. The ultimate goal of the Open Compute Project: Maximizing operational efficiency.

Because today's standards don't always fit upcoming needs, engineers had to rethink infrastructure to achieve their efficiency goals, and then shared their designs with the public.

Benefits/Features for the End-User

A solution you can count on

- The Belden Open Bridge Rack (OBR) can be field converted between EIA (19" mount) and OCP (21" mount) mounting standards for increased flexibility.
- Belden OBR is 28"W x 48"D and available in 40OU/44RU or 44OU/48RU.
- Migration from IEA to OCP gears is possible without having to purchase new cabinets, thanks to a reversible 44OU/48RU rail kit.
- A modular approach allows cable management configuration specific to application requirements.
- Doors feature 78% opened integrated hexagonal mesh for low air resistance and optimal cooling of hosted gears.

Contractor-friendly solution helps achieve on-time installation

- The OBR rack ships fully assembled to exact requirements.
- · Cabinets can be labelled with location-specific tagging on cabinets or racks to facilitate delivery on the data center floor.
- · Cabinets come with casters rated to handle dynamic loads of up to 2,250 lbs and static loads of up to 3,000 lbs.
- Rack unit (RU) and Open unit (OU) indentifiers are printed on mounting rails for quick identification.
- An open bottom offers easy cable access.
- Tool-less PDU mounting supports faster deployment (in EIA configuration).

Benefits/Features for the Architect/Consultant

Meets and exceeds standards

- Belden OBR rack meets TIA/EIA 310-D and OCP equipment mounting standards.
- Allows for greater data center design flexibility by enabling mixed use of EIA and OCP gears in the same computing space.
- All materials are RoHS compliant.



Open Bridge Racks

Description	Belden Part Number
Server Rack 44RU/400U	XFI44U2848-S002
Networking Rack 44RU/400U	XFI44U2848-S003
Open Bridge Rack 44RU/400U	XFI44U2848-S004
Server Rack 48RU/440U	XFI48U2848-S005
Network Rack 48RU/440U	XFI48U2848-S006
Open Bridge Rack 48RU/440U	XFI48U2848-S007

OBR in Server and Networking configuration are shipped in EIA configuration.

For more information about the Open Compute Project, visit www.opencompute.org



Heat Containment Systems

Aisle and Cabinet Containment Systems

Containment Overview

A major challenge faced by data center managers today is ensuring that cooling systems do not fail and continue to provide uninterrupted cool air to equipment, especially in high-density data center environments with advanced virtualized equipment that can reach exhaust air temperatures in excess of 125° F. Most data centers that use a standard cold-hot-aisle approach are oversupplied with cold air at a ratio of 2 to 2.5 (volume of cold air supplied to volume consumed by computing equipment). With cooling representing 30-40% of total operational costs for a typical data center, containment solutions present a strong ROI potential. A standard cold/hot aisle approach can also lead to hotspots that cause equipment overheating and failures, further resulting in higher operating costs.

Containment is an industry-proven method of eliminating cold air bypass and the mixing of hot and cold air that allows for optimal use of available cooling capacity for lower operating costs. With containment, hot exhaust air from equipment is directed to CRAC units either through aisle containment systems for groups of cabinets or through active or passive chimneys at the cabinet level. This increases the differential between the inlet and outlet temperatures of CRAC units, significantly improving overall cooling system efficiency and eliminating the need to oversupply cold air. Creating separation between the hot return air and cold supply air also allows for potentially raising the supply air temperature while maintaining stable intake temperature for networking equipment, providing a more efficient, reliable and hotspot-free computing space. The containment approach easily handles the high-temperature exhaust air from advanced data processing equipment, allowing data centers to host more equipment while lowering energy consumption and total operating costs.

Belden's complete line of containment options range from the cabinet to the cold/hot aisle, offering customers the greatest flexibility for upgrading, designing and implementing a tailored solution that fits their specific data center needs in brownfield and greenfield applications. Based on computing load, cabinet layout and computing space specifications, Belden engineers can recommend and design containment solutions that will optimize availability, efficiency and hosting capacity.





- Reduces cooling costs by 30–50% over traditional hot-cold-aisle deployment
- Creates a high level of separation between supply and return air
- Eliminates hotspots for increased IT equipment availability

- Eliminates bypass air and air recirculation
 - Reduces or eliminates cold air oversupply (2.5 to <1.2)
 - -Maximizes hosting density for up to 30 kW per cabinet without precision cooling
 - Increases supply air temperature (better use of economizer loop, 8–10°)
 - Increases return-air temperature for better CRAC efficiency





Aisle Containment

Belden's aisle containment solutions eliminate the mixing of hot and cold air in data center environments to maximize energy efficiency and lower operating costs. Our aisle containment systems are vendor agnostic, featuring innovative, transparent panels that are lightweight and easily attached horizontally or vertically to data center cabinets using a universal rail system. The panels are field modifiable to meet varying height and space requirements between rows of cabinets, and from the top of the cabinets to the ceiling. The aisle containment systems can also interact with smoke or fire alarm systems to ensure proper operation of critical fire suppression and safety systems.

Solutions offered are for hot-and cold-aisle containment system.

Vertical Containment

Vertical panels direct hot return air to overhead return plenum, eliminating mixing and improving overall operating efficiency of perimeter CRAC units. Using a fully ducted cold-air delivery system with vertical panels also allows cold air to be placed directly into the cold aisle, eliminating the need to use underfloor space for supply air.

Horizontal Containment

For raised-floor environments with overhead obstructions or no ceiling plenum, non-ducted panels form a roof to trap cold air, enabling higher supply temperatures and maximizing available cooling. This design can also be used for data centers utilizing in-row cooling solutions.

Aisle Doors

Belden offers swinging and sliding door options for the end of the row.

Heat Containment Systems (continued) Hot- and Cold-Aisle Containment Systems









Heat Containment Systems (continued) Hot- and Cold-Aisle Containment Systems



Hot-Aisle Vertical Design



Cold-Aisle Horizontal Design

Vertical-Style Heat Containment









Heat Containment Systems (continued) Passive and Adaptive Enclosure Heat Containment (AEHC) System

AEHC chimney shown here in through-the-ceiling version

Passive chimney shown here in adjustable and against-the-ceiling version



AEHC chassis (23.5"Wx16.9"Dx11.5"H) host the fans and controller

Example of passive and active chimney systems

Containment Cabinets

- Designed for chimney containment, Belden XHM, XHS and XHMS-XHSS Seismic cabinets feature sealing front mounting rails that separate cold supply air from hot return
- 42" or 48" deep cabinets are recommended for optimal chimney containment performance
- Gasketed solid rear door options and brushed cable entries prevent hot return air from leaking back into computing space
- All X Series cabinets can be equipped with passive or active chimneys

Passive and Active Chimney Systems

- Active system can support up to 30 kW per cabinet for today's extremely high heat loads
- Passive systems rely on the effectiveness of server fans, combined with pressure differential between the cabinet and return spaces
- Passive system capacity peaks around 10 kW (but can be higher) and varies based on chimney length, position in relation to CRAC, return plenum pressure and exhaust air temperature
- Passive and active chimneys are available as through-ceiling chimneys that protrude approximately 2" into the return plenum, and against-the-ceiling chimneys that adjust and feature a rubber gasket for effective sealing against the drop ceiling
- To account for fans and controller units, chimney length for active containment should be sized by deducting 11.5" from distance between cabinet top and return ceiling
- Belden X Series cabinets equipped with containment top panels accept both passive and active chimneys, allowing for easy passive-to- active conversion

AEHC Overview

Belden's active Adaptive Enclosure Heat Containment (AEHC) System is a highly efficient and cost-effective method for cooling cabinets while preventing the mixing of hot and cold air in the data center. When networked, AEHC chimneys allow aggregation of exhaust air volume of entire cabinet pods, enabling real-time control of CRAC units and creating a logical link between the cooling plant and the computing load. This unique attribute allows reduction of cooling-operating costs, particularly in virtualized, clustered computing environments characterized by highly dynamic computing loads.

- AEHC uses high-capacity fans controlled by a pressure sensor to ensure dynamic balancing of intake and exhaust air volumes
- Maintains neutral pressure in the cabinet plenum for highly efficient server fan operation
- Can be networked in a pod/row for redundancy in virtualized, clustered computing environments
- Multiple cabinets can share AEHC chimneys based on hosted computing density (three cabinets per chimney is typical)
- AEHC is highly scalable with chimneys added as needed with increased computing loads
- A pair of hot swappable brushless fans with a combined capacity of 10 kW or 30 kW connect to the AEHC controller, enabling quick and easy capacity upgrades (different capacity fans cannot be used in the same cabinet)
- Fan motors are engineered to ensure longevity, high air displacement and low power consumption for mission-critical facilities
- Ideal for existing data centers, and non-Belden cabinets can be retrofitted with chimney by using a customized adapter plate

Heat Containment Systems (continued)

Pressure-based containment control for best use of cooling capacity



Rear view of AEHC contained cabinet



Embedded software allows each AEHC unit to be fully autonomous. The AEHC controllers have their own IP address, enabling network connection. The AEHC then allows for real-time monitoring of the heat load, temperature and alarm conditions for each IT cabinet.

• The AEHC system is powered (autosensing 120V

- or 208V) via the cabinet PDUs and accepts two distinct power feeds for redundancy • A combination of temperature-humidity sensors
- with the AEHC controller can collect and store environmental data. When networked, real-time data can be accessed via the intuitive user interface or Belden Cormant-CS Infrastructure Management Software using SNMP (MIB file)
- Environmental, mechanical and electrical thresholds and alarms are easy to configure and can be sent directly to e-mail addresses (through an escalation process)

Belden AEHC is comprised of:

- A cabinet configured to accept the AEHC system
- A chassis with a controller and two fans
- A controller for power input and system networking and control
- A pair of AEHC fans per chassis with a combined containment capacity of 10 kW or 30 kW
- A pressure sensor for fan speed control
- A dual-function temperature/humidity sensor to monitor intake air
- An AEHC chimney to provide the physical link between the chassis and return plenum



The threshold setting in Belden's AEHC system software provides early warning alarms for problem conditions. Alarms are automatically reported. Supported Network Protocols: DHCP, HTTPS, SMPT/POP3, HTTP, ICMP, TCP/IP, SNTP, DNS.





AEHC single cabinet diagram (side view)



AEHC controller

Heat Containment Systems (continued)

Options and Accessories

Passive Chimney - Through Ceiling

HCDP0 Chimney Height Color 24 24" 33 33" 60 60" B Black W CO White 66 66 36 36 72 72' 42 42" 78 78" 48 48 84 84 54 54

(Adjustable) HCDPA0

Passive Chimney – Against Ceiling



AEHC Chimney* — Through Ceiling



Adaptive Cabinet Heat Containment System

B Black

W CO White

Includes (1) Black Chassis, (1) Controller, (2) Fan Cartridges, (1) Pressure Sensor, (1) Temperature/Humidity Sensor, (2) C13 Power Cords, (2) 5-15P Power Cords

Description





HCS0





Belden Part Number

HCH001

HCFD10

HCFD30

HCP002

HCP001

HCC001-B

HCC001-W

HCCBP-B

HCCBP-W

HCDBP-B

HCDBP-W

Intelligent hot swappable fan cartridges allow for easy maintenance and system scalability



Belden's AEHC System utilizes pressure sensing to dynamically adjust for speed, resulting in perfect

BELDEN



balance between intake and exhaust air volume



MUDEN 4

AEHC 10kW AEHC Fan (1) with Digital Display

AEHC 30kW AEHC Fan (1) with Digital Display

AEHC Dual Function Temperature/Humidity Sensor (1)

AEHC Chassis Blank Panels, includes Blank for Fans and Controller, Black

AEHC Chassis Blank Panels, includes Blank for Fans and Controller, Central Office White

Chimney Blank Panel for Active or Passive Containment (compatible with 24", 30" and 40" cabinets)

AEHC Sensors

AEHC Chassis AEHC Chassis, Black

Central Office White

Black

AEHC Pressure Sensor (1)

AEHC Chassis, Central Office White

AEHC Chassis Blank Panels



XHN Series – NEMA 12 Cabinets

Ideal for use in industrial networking



XHN Style NEMA 12 compliant cabinet with front and rear doors, side panels, EIA mounting rails and optional side-mounted air conditioning unit. Part number shown: XH2N45112121

Applications

Designed for dusty environments, Belden XHN Series cabinets allow hosting of networking/ control equipment in factories and warehouses and on production floors. Optional air conditioning (AC) units allow temperature control for stand alone applications. Belden has extensive NEMA-style networking cabinet experience and capability to customize solutions.

Design and Structural Features

- NEMA 12 compliant for hosting servers and switches in industrial environments
- Freestanding welded frame with modular construction
- 84"H x 30"W x 36"D or 84"H x 30"W x 42"D
- 19" EIA Mounting rails
- Three-point compression-style lift-and-turn latch system
- Glass front door uses scratch-resistant tempered safety glass



XHN Front with Doors and Panels







Cabinet Components: Doors and Side Panels

Description	Belden Part Number
Front/Rear Doors	
Solid with 3 Pt. Latching and Locking Swing Handle, Black	HN4530SD01
Solid with 3 Pt. Latching and Locking Swing Handle, White	HN4530SD02
Glass with 3 Pt. Latching and Locking Swing Handle, Black	HN4530GD01
Glass with 3 Pt. Latching and Locking Swing Handle, White	HN4530GD02
Fan/Filtered with 3 Pt. Latching and Locking Swing Handle, Black	HN4530FFD01
_Fan/Filtered with 3 Pt. Latching and Locking Swing Handle, White	HN4530FFD02
Top & Bottom Glass Windows w/ Center Keyboard Compartment with 3 Pt. Latching and Locking Swing Handle, Black	HN4530GKD01
Top & Bottom Glass Windows w/ Center Keyboard Compartment with 3 Pt. Latching and Locking Swing Handle, White	HN4530GKD02
Side Panels	
Solid, Locking, Bolt-On Side Panel with Gasket for 45RU x 36" Deep XHN Cabinet, Black	HN4536SP01
Solid, Locking, Bolt-On Side Panel with Gasket for 45RU x 36" Deep XHN Cabinet, White	HN4536SP02
Solid, Locking, Bolt-On Side Panel with Gasket for 45RU x 42" Deep XHN Cabinet, Black	HN4542SP01
Solid, Locking, Bolt-On Side Panel with Gasket for 45RU x 42" Deep XHN Cabinet, White	HN4542SP02



Air-conditioning units



customized to accept highly efficient air-conditioning units.



XHW Series - Wall-Mount Cabinets

Wall-Mount Cabinets are an ideal hosting option in confined spaces

Applications

establishments, schools and offices).

management and access features.Design and Structural FeaturesSturdy welded steel construction

• Weight capacity of 300 lbs. of load

• Durable black powder-coat finish

polycarbonate or solid front

mounting wall

Fan kits
 Filter kits

- Vent covers - Brush kits

section

• Front door options: perforated, clear

• Door-swing direction field is reversible

· Open rear section for cable access through

Side vent pattern has provisions to mount 6, 8 or 12 fans, cover plates or filters, depending on height of wall mount
Several accessory options are available:

• Lockable front door and rear section

• Laser knockouts for conduit and cable entry on the top and bottom rear

- Wall-mounting bracket kit





XHW-4830-GD - Closed



XHW-4830-GD - Open



HWFS__* Vertical Finger Strip Manager

Manager

HWVMP01__01* XHW__BBE Vertical Finger Strip Plywood Ba

XHW_ _BBD* Plywood Backboard Kit

XHW_ _RLS1224* (1) Pair of EIA Rails #12-24 with hardware included



- numbers)Swing-out mid-section for rear access to equipment
- Vented sides for proper heat dissipation



XHWFILTERKIT

Wall-mount cabinets provide IT/networking hosting in spaces that often serve another primary function, or where space optimization is critical. They are designed for applications that require secure hosted devices and are ideal for locations where floor mounting space is limited (retail

Available in mounting unit increments of 12RU, 19RU and 26RU, Belden Wall-Mount Cabinets offer great aesthetics, rugged construction, optimized equipment access and flexible cable



XHWFANKIT115V - Fan Assembly Kit

* Denotes height from table				
Field Data	Enclosure Height			
24	24.000"			
36	36.000"			
48	48.000"			



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5



XHW Series - Wall-Mount Cabinets (continued)

XHWBRUSHKIT

Ordering Information

Belden Part Number	w	н	D	DC Mid-Section	Cable Entry	Vented Slots	Rack Unit (RU)	Door Type	Weight	Weight Capacity
24" - 12RU W	all-Mount	Cabinets								
XHW-2406-GD	23.062"	23.75"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	12	Polycarbonate	25 lbs	300 lbs
XHW-2406-SD	23.062"	23.75"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	12	Solid	30 lbs	300 lbs
XHW-2406-PD	23.062"	23.75"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	12	Perforated	20 lbs	300 lbs
XHW-2424-GD	23.062"	23.75"	24.0"	17.60"	(2) 2.5" x 8.0"	2 Per Side	12	Polycarbonate	115 lbs	300 lbs
XHW-2424-SD	23.062"	23.75"	24.0"	17.60"	(2) 2.5" x 8.0"	2 Per Side	12	Solid	125 lbs	300 lbs
XHW-2424-PD	23.062"	23.75"	24.0"	17.60"	(2) 2.5" x 8.0"	2 Per Side	12	Perforated	110 lbs	300 lbs
XHW-2430-GD	23.062"	23.75"	30.0"	17.60"	(2) 2.5" x 8.0"	2 Per Side	12	Polycarbonate	125 lbs	300 lbs
XHW-2430-SD	23.062"	23.75"	30.0"	17.60"	(2) 2.5" x 8.0"	2 Per Side	12	Solid	135 lbs	300 lbs
XHW-2430-PD	23.062"	23.75"	30.0"	17.60"	(2) 2.5" x 8.0"	2 Per Side	12	Perforated	120 lbs	300 lbs

Description	Belden Part Number
24" Wall-Mount Accessories	
Vertical Cable Manager - mounts in rear section using brackets or in mid-section on rail struts	HWVMP012401
Vertical Finger Strip Manager	HWFS24
(1) Pair of EIA Rails tapped #12-24 with (20) pcs mounting hardware included	XHW24RLS1224
Plywood Backboard Kit - mounts in rear section using brackets	XHW24BBD
XHW Series - Wall-Mount Cabinets (continued)



1

Belden Part Number	w	н	D	DC Mid-Section	Cable Entry	Vented Slots	Rack Unit (RU)	Door Type	Weight	Weight Capacity
36" - 19RU W	all-Mount	Cabinets								
XHW-3606-GD	23.062"	36.00"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	19	Polycarbonate	45 lbs	300 lbs
XHW-3606-SD	23.062"	36.00"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	19	Solid	55 lbs	300 lbs
XHW-3606-PD	23.062"	36.00"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	19	Perforated	40 lbs	300 lbs
XHW-3624-GD	23.062"	36.00"	24.0"	17.60"	(2) 2.5" x 8.0"	4 Per Side	19	Polycarbonate	137 lbs	300 lbs
XHW-3624-SD	23.062"	36.00"	24.0"	17.60"	(2) 2.5" x 8.0"	4 Per Side	19	Solid	147 lbs	300 lbs
XHW-3624-PD	23.062"	36.00"	24.0"	17.60"	(2) 2.5" x 8.0"	4 Per Side	19	Perforated	127 lbs	300 lbs
XHW-3630-GD	23.062"	36.00"	30.0"	23.60"	(2) 2.5" x 8.0"	4 Per Side	19	Polycarbonate	142 lbs	300 lbs
XHW-3630-SD	23.062"	36.00"	30.0"	23.60"	(2) 2.5" x 8.0"	4 Per Side	19	Solid	152 lbs	300 lbs
XHW-3630-PD	23.062"	36.00"	30.0"	23.60"	(2) 2.5" x 8.0"	4 Per Side	19	Perforated	137 lbs	300 lbs

36" Wall-Mount Accessories
Vertical Cable Manager - mounts in rear section using brackets or in mid-section on rail struts
Vertical Finger Strip Manager

(1) Pair of EIA Rails tapped #12-24 with (20) pcs mounting hardware included Plywood Backboard Kit - mounts in rear section using brackets

Belden Part Number	w	н	D	DC Mid-Section	Cable Entry	Vented Slots	Rack Unit (RU)	Door Type	Weight	Weight Capacity
48" - 26RU W	48 [#] - 26RU Wall-Mount Cabinets									
XHW-4806-GD	23.062"	48.25"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	26	Polycarbonate	50 lbs	300 lbs
XHW-4806-SD	23.062"	48.25"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	26	Solid	60 lbs	300 lbs
XHW-4806-PD	23.062"	48.25"	6.0"	N/A	(2) 2.5" x 8.0"	N/A	26	Perforated	45 lbs	300 lbs
XHW-4824-GD	23.062"	48.25"	24.0"	17.60"	(2) 2.5" x 8.0"	6 Per Side	26	Polycarbonate	140 lbs	300 lbs
XHW-4824-SD	23.062"	48.25"	24.0"	17.60"	(2) 2.5" x 8.0"	6 Per Side	26	Solid	150 lbs	300 lbs
XHW-4824-PD	23.062"	48.25"	24.0"	17.60"	(2) 2.5" x 8.0"	6 Per Side	26	Perforated	135 lbs	300 lbs
XHW-4830-GD	23.062"	48.25"	30.0"	17.60"	(2) 2.5" x 8.0"	6 Per Side	26	Polycarbonate	150 lbs	300 lbs
XHW-4830-SD	23.062"	48.25"	30.0"	17.60"	(2) 2.5" x 8.0"	6 Per Side	26	Solid	160 lbs	300 lbs
XHW-4830-PD	23.062"	48.25"	30.0"	17.60"	(2) 2.5" x 8.0"	6 Per Side	26	Perforated	145 lbs	300 lbs

Description	Belden Part Number
48" Wall-Mount Accessories	
Vertical Cable Manager - mounts in rear section using brackets or in mid-section on rail struts	HWVMP014801
Vertical Finger Strip Manager	HWFS48
(1) Pair of EIA Rails tapped #12-24 with (20) pcs mounting hardware included	XHW48RLS1224
Plywood Backboard Kit - mounts in rear section using brackets	XHW48BBD

Description	Belden Part Number
Wall-Mount Optional Accessories	
Fan Assembly (2-4" Diameter Fans - 115V 5-15P Plug, 160 CFM with Guard)	XHWFANKIT115V
Fan Assembly (2-4" Diameter Fans - 230V C14 Plug, 160 CFM with Guard)	XHWFANKIT230V
Hybrid Wall-Mount Easy Mount Wall Bracket Kit	XHWMBKT
Rear Section Brush Kit - Mounts over 2.5" x 8.0" cutout	XHWBRUSHKIT
Gasketed Cover Plate Kit - Mounts over fan areas in the mid-section (1 Pair)	XHWCOVERKIT
2) Filter Housings - Mount to Side Panels of Center Section, attach from inside	XHWFILTERKIT
(4) Rubber Feet - Mount to bottom of center section	XHWFOOTKIT
Grommet Kit (2) 1.125" & (2) 3.0" Grommets - for Rear Section Cable Entry Holes	XHWGROMMETKIT
12-24 Mounting Hardware (Bag of 25)	8917-0125

Belden Part Number

HWVMP013601 HWFS36

XHW36RLS1224 XHW36BBD







Wall-Mounted SecurePatch BSP-22U-12SK



11U 6" Deep - BSP-11U-6PK

SecurePatch[®] Open Rack Security Door

SecurePatch provides security for new and existing network components in an open 19" equipment rack. The SecurePatch cover provides a security solution to only the section of the rack space you need. Safeguard against unauthorized patch cord movement by retrofitting loaded equipment racks with the added security of a lockable door.

Benefits

- Adds security without network downtime
- Controls rack access
- · Provides second-level lock security
- Clamshell design allow back to back mounting of SecurePatch for securing front and rear
- No need to re-terminate
- Mounting flange allows one person to install each unit

Features

- Can be rack or Wall-Mounted on a backboard
- Slotted mounting flange allows for single person installMultiple side knockout options allow for low-high-
- capacity cable feed through
 Connecting bracket enables 11U/22U units to be connected in any combination while allowing patch cord pass through from one unit to another

Product Specifications

- 16 gauge cold rolled steel
- 19" Rack-Mounting per EIA-310-D
- Finish: black powder coat
- Door options: steel, mesh or plexiglass door
- Keyed locks standard on door
- Combination locks available
- Ships unassembled
- Easy-to-follow assembly instructions



BSP-D44U-6PK

Ordering Information

Description	Height	Depth	Belden Part Number			
11U SecurePatch Complete Units (standard black powder coat)						
11U SecurePatch with keyed door	19.25"	6.00"	BSP-11U-6(X)			
11U SecurePatch with keyed door	19.25"	12.00"	BSP-11U-12(X)			
22U SecurePatch Complete Units (standard	black powder coat)					
22U SecurePatch with keyed door	38.50"	6.00"	BSP-22U-6(X)			
22U SecurePatch with keyed door	38.50"	12.00"	BSP-22U-12(X)			
44U SecurePatch Kits Complete Units (standard black powder coat)						
(2) 22U SecurePatch w/ connector brackets, keyed doors	77.00"	6.00"	BSP-44U-6(X)			
(4) 22U front and rear kit with keyed doors	77.00"	6.00"	BSP-D44U-6(X)			

Replace (X) with door code: PK= Plexiglas, MK=Mesh, SK=Steel

SecurePatch Accessories

Description	Quantity	Belden Part Number
Connecting bracket - for retrofitting 2 SecurePatch together	1	BSP-CBRKT
Quarter-turn with 3 number combination lock	1	BSP-LOCK-C1
Adjustment plates for front and rear rack installation	2-pack	BSP-ADPLATE*

*Note: BSP-ADPLATE encloses the gap between two SecurePatch covers installed back to back on a 3" deep equipment rack. When the adjustment plates are installed, inside usable mounting space is reduced by 2U.



Consolidation/MDU Enclosures: In-Suite Distribution

Target Markets: Hospitality & Dwelling, Public Venue

To meet the needs of multi-dwelling, hospitality and public venues, Belden offers a tailored solution for terminating optical network terminals (ONTs) in the suite, breaking out signals and routing to the unit's data, voice, video and wireless.

Wall Enclosures

Designed to house connectivity and provide cable routing options. Knockouts located in the bottom are designed to accommodate single or full-width AC power modules, mini and universal DC power supplies. Available in 14-, 21-, 28- and 42-inch sizes to suit your needs.

· Enclosure capable of housing different types of ONTs





XRES2114EC

XRES2114

Modules

- Coax Splitters
- Passive: 1X2, 1X3
- Active: 1X5, 1X9
- Input Distribution Panel: Allows voice split of 1-4 into 12 output lines. Includes security line as well.
- MoCA ready (1125-1675 MHz)
- Low output-to-output isolation in MoCA band
- Built-in PoE filter on input port
- All passive voice modem/eMTA port
- Return loss saver (RLS) technology
- Dual-color monitoring LED
- UL Listed for bonding
- Downstream unity gain
- Upstream unity gain
- Corrosion-resistant housing
- · RoHS compliant



Wall Enclosures

Description	Belden Part Number
14" Enclosure, 14.0" high x 14.38" wide x 3.63" deep	XRES1414
14" Vented Hinged Door	XRES1414VHD
14" Screw on Flush Cover	XRES1414FC
21" Enclosure, 21.0" high x 14.38" wide x 3.63" deep	XRES2114
21" Vented Hinged Door	XRES2114VHD
21" Screw on Flush Cover	XRES2114FC
28" Enclosure, 28.0" high x 14.38" wide x 3.63" deep	XRES2814
28" Vented Hinged Door	XRES2814VHD
28" Screw on Flush Cover	XRES2814FC
42" Enclosure, 42.0" high x 14.38" wide x 3.63" deep	XRES4214
42" Vented Hinged Door	XRES4214VHD
42" Screw on Flush Cover	XRES4214FC

Brackets

Description	Belden Part Number
Mini Cable Manager Bracket	XRESBR-007
90' front access	XRESBR-005
Front acess, 21 POS	XRESBR-006
PON box bracket	XRESBR-009

Splitters

Description	Belden Part Number
Passive	
2-Way Digital Splitter, 1000 MHz	PPC-GHS-2E
3-Way Digital Splitter, Unbalanced, 1000 MHz	PPC-GHS-3E
4-Way Digital Splitter, 1000 MHz	PPC-GHS-4E
Active	
Entry, 5-output, 1002 MHz, Downstream Unity Gain, Upstream Unity Gain	PPC-5M-U/U
Entry, 5-output, 1002 MHz, Downstream Unity Gain, Upstream Unity Gain, w/Power Inserter	PPC-5M-U/UPI
Entry, 5-output, 1002 MHz, Downstream Unity Gain, Upstream Unity Gain, Power Supply w/built-in Pl	PPC-5M-U/UPS
Entry, 9-output, 1002 MHz, Downstream Unity Gain, 0 db Loss Upstream	PPC-9M-U/U
Entry, 9-output, 1002 MHz, Downstream Unity Gain, 0 db Loss Upstream, w/Power Inserter	PPC-9M-U/UPI
Entry, 9-output, 1002 MHz, Downstream Unity Gain, 0db Loss Upsteam, Power Supply w/built-in Pl	PPC-9M-U/UPS

Voice Splitter

Description	Belden Part Number
4 P In, 4-Pair 110 IDC Voice	AX107623



Zone Enclosures

Application Description

Ceiling-or floor-based zone connectivity replaces traditional homeruns to telecom rooms. Feeder category cables or pre-terminated cables are directed to a central distribution point in the zone where they interconnect to individual cable runs that fan out to each workstation outlet.

Zone connectivity provides a way to keep most cabling permanent and undisturbed while making moves, adds and changes (MACs) easier.

Enclosures

Versatile solution

- 7U Active Ceiling Enclosure
- 5U Passive Ceiling Enclosure
- 8U Active Ceiling Enclosure
- 8U Passive Ceilling Enclosure
- 2'x2' / 2'x4'
- Ceiling/floor
- Active/passive
- Removable door

Robust

- UL 50/UL 1863/UL 2043
- Fire-rated sealing kit
- Plenum rated

Zone enclosures are compatible with other Belden products, including the Pre-loaded and empty REVConnect and KeyConnect Patch Panels.

Zone Enclosures

Description	Part Class	Belden Part Number
Raised-Floor Zone Enclosures		
2U + 2U Passive Raised Floor Enclosure w/Rotating Brackets, 24"W x 24"H x 4.00"D	Passive	XUFPE25254-S01
4U + 4U Passive Raised Floor Enclosure w/Rotating Brackets, 24"W x 24"H x 7.00"D	Passive	XUFPE25257-S01
7U Active Raised Floor Enclosure w/Rotating Brackets, 24"W x 24"H x 12"D	Active	XUFAE252512-S01
11U Passive Raised Floor Enclosure for Patch Panels, 24"W x 24"H x 12"D	Passive	XUFPE252512-S01
Ceiling Zone Enclosures		
7U Active Ceiling Enclosure w/NEMA Box-Access Ports, 24"W x 24"H x 12"D, White	Active	XCAE242412-S01
Cable Consolidation Ceiling Enclosure for Wiring Blocks, 24"W x 24"H x 12"D, White	Passive	XCPE242412-S02
5U Passive Ceiling Enclosure with Equipment Bracket, 24"W x 24"H x 12"D, White	Passive	XCPE242412-S01
8U Active Ceiling Enclosures w/NEMA Box, 4 Access Ports, 24"W x 48"H x 12"D, White	Active	XCAE244812-S01
4U Passive Ceiling Enclosure, 4 Access Ports, 24"W x 48"H x 12"D, White	Passive	XCPE244812-S01
8U Passive Ceiling Enclosure, 4 Access Ports, 24"W x 48"H x 12"D, White	Passive	XCPE244812-S02
Zone Enclosures Accessories		
White Knob Replacement Non-Lock 1/4-Turn for A1222 & A1224	Standard	XLKS-1-S01
Locking Door for Zone Floor Enclosures	Standard	XLDES-S01
Replacement Fan for the 2 X 2 Ceiling Active Zone Enclosures	Active	XCAERF2X2-S01
Replacement Fan for the 2 X 2 Ceiling Active Zone Enclosures	Active	XCAERF2X4-S01









2- and 4-Post Distribution Rack Systems

Modular High-Density Racking System (HDRS) for network cross-connect

Applications

These high-reliability products have been designed specifically for networking environments - from telecom closets to world-class data centers - to help you make the best use of valuable real estate and simplify MACs (moves, adds and changes).

The HDRS is a well-engineered cross connect and hosting platform that offers you a high level of versatility and flexibility in systems design for ultimate network density and manageability.

How It Works

Create exactly the racking system you need from our selection of steel and aluminum distribution and server racks, combined with more than 50 standard cable management components and accessories. These items have been designed for complete compatibility and integration. The components include:

- Distribution and server racks in aluminum or steel; knockdown or welded; 2 or 4 posts
- · Choice of low- or high-density vertical cable managers in single- or double-sided configurations
- High-density vertical manager half door allows easy cable access and hinging of the doors to both right and left side
- Horizontal cable managers with bend radius control and double-hinge cover
- Accessories: Retention Gates, Divider Bars, Transition Channels and more

How to Order

Select any of the Distribution and Server Rack styles. Select any of the Vertical Cable Managers listed for Distribution and Server Racks.

Choose any of the Accessories for the BHV Vertical Managers, Horizontal Managers or Transition Channels (See pages 44-45 for Technical **Specifications and Options Tables). HDRS Vertical Manager Capacity**

	Single-Side	ed Manager		# of Cable	e 35% Fill
High	Low	Width (in.)	Depth (in.)	Cat 6 0.250" dia.	Cat 6A 0.295" dia.
BHVH003	BHVL003	3.6	9.40	194	126
BHVH006	BHVL006	6.0	9.40	321	209
BHVH010	BHVL010	10.0	9.40	535	348
BHVH012	BHVL012	12.0	9.40	642	417

	Double-Side	# of Cable	e 35% Fill		
High/High	High/Low	Width (in.)	Depth (in.)	Cat 6 0.250" dia.	Cat 6A 0.295" dia.
BHVHH03	BHVHL03	3.6	18.80	388	252
BHVHH06	BHVHL06	6.0	18.80	642	417
BHVHH10	BHVHL10	10.0	18.80	1070	696
BHVHH12	BHVHL12	12.0	18.80	1283	835



HDRS Modular High-Density Racking System



Double-Sided





BHVH006* High-Density, Single-Sided Vertical Manager

BHVL006* Low-Density, Single-Sided Vertical Manager





BHVHI 06 High/Low-Density, Double-Sided Vertical Manager

*High- and low-density vertical manager shown here with optional back covers, BHBC06X.





Racks and Cabinets

www.belden.com



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High-Density, Double-Sided

BHVHH06

Vertical Manager



2- and 4-Post Distribution Rack Systems (continued)

High-Density Racking System Features



Unmatched Density

 Designed to work seamlessly with Belden IBDN copper and fiber systems, cable management fingers align with rack RUs for easy routing of patch cords to vertical managers, eliminating the need for horizontal managers

High Level of Modularity

- Enables ease of removal or reconfiguring Belden's wide selection of accessories and components
- Interchangeable cable retention gates, doors, fingers and accessories adapt to specific needs

Vertical Manager Part Sets

 Includes a complete set of necessary components, including doors (on high-density managers), gates, push-in fasteners, cable strap mounts, cable retainer bars and mounting hardware

Modular, Removable Finger Sections

- Available in high or low density, finger sections can be easily removed during reconfigurations and easily replaced as needed
- High-density 11RU sections easily screw into vertical managers and align with the rack units, eliminating horizontal managers

System Scalability

 The HDRS is easily reconfigured and modified to handle future system growth, add-ons or changes

Compatibility of Vertical Managers

• Compatible with any EIA-310-D compliant 2- and 4-post racks

Mixed-Media Application

• Designed to handle both copper and optical fiber structured cable networks

Accessory Mounting Holes

• 1/4" diameter mounting holes along length of each vertical manager enable easy attachment of accessories, like cable bundle fasteners

Any-Point-to-Any-Point Routing Capability

 Cable can be easily routed from one patch panel to another within the same rack, to the back of the rack or to an adjacent rack while still maintaining proper cable bend radius

Easy Installation

 Only standard hand tools are required for quick installation and simple field reconfiguration and modification

Great Aesthetics

- Professional flat-black finish is suitable for any world-class telecom environment
- Central office white color option allows for seamless integration where light-colored cabinets are used, improving visibility

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2- and 4-Post Distribution Rack Systems (continued) Suitable for single-rack to multi-rack high-density cross-connects

E

Zone 4 Seismic-Rated Distribution Rack Type XDRS

Applications

Belden offers a complete line of open racks and rack accessories, from single-rack applications (retail, telecom closets) to high-density, multi-rack patching and switching fields (computer room, data centers, central offices). Belden's unique cable and connectivity expertise was central in the design of a feature-rich racking system that offers ease of installation, easy MACs and high levels of scalability.

Rack Features: 2- and 4-Post

- EIA-310-D compliant, choice of 19" and 23" mounting
- Consult customer service for 23" rack and accessories (horizontal managers)
- Equipment mounting hardware is included
- 2-post rack uprights are front and rear tapped
- Easy rack unit identification for faster install
- Grounding stud standard on all 2-post and 4-post racks
- Steel or aluminum construction
- Seismic certified options
- Knockdown or welded construction
- 4-post racks are adjustable, providing for 28", 32" and 36" depths

Color

- Black (standard)
- Central office white available on request

Dimensions









XDRS8419-61032 Seismic Rack (Steel)





2- and 4-Post Distribution Rack Systems (continued)

Weight

63 lbs

63 lbs

63 lbs

81 lbs

81 lbs

76 lbs

89 lbs

Mounting**

19'

19"

19"

19'

19'

19"

19"

Load

Capacity

Height/Rack

Spaces

1,000 lbs 84"/45RU

1,000 lbs 84"/45RU

1,000 lbs 84"/45RU

1,000 lbs 84"/45RU

1.000 lbs 84"/45RU

1,000 lbs 84"/45RU

1,000 lbs 84"/45RU XDR8419-310N2M

Belden

Part Number

XDR8419-310N

XDR8419-312N

XDR8419-3M6

XDR8419-610

XDR8419-612

XDR8419-310N1M

Technical Specifications

Description

Square Hole with M6 cage nut, 3" Vertical Upright w/Angle

#10-32 Tapped 3" Vertical Upright w/Angle Base, Includes One 4"x 4" Vertical Manager with Snap-On Cover (part #

#10-32 Tapped 3" Vertical Upright w/Angle Base, Includes Two 4"x 4" Vertical Manager with Snap-On Cover (part #

#10-32 Tapped 3" Vertical Upright w/Angle Base

#12-24 Tapped 3" Vertical Upright w/Angle Base

#10-32 Tapped 6" Vertical Upright w/Angle Base

#12-24 Tapped 6" Vertical Upright w/Angle Base

2-Post Distribution Racks - Steel - Knockdown*

2-Post Distribution Racks Kit - Steel - Knockdown*

Ordering Information

Base

VCMFDR4X4)

VCMFDR4X4)



XDR8419-310N1M and XDR8419-312N1M



XDR8419-310N2M and XDR8419-312N2M

- * Knockdown rack shipped not assembled, assembly hardware is included
- ** For EIA-23" mounting consult Belden customer service *** 4-post seismic rack is made of two welded 2-post rack structures, linked with front to rear member, shipped unassembled
- ***** 4-post server rack is not compatible with vertical managers (see page 21)

_						
(#12-24 Tapped 3" Vertical Upright w/Angle Base, Includes One 4"x 4" Vertical Manager with Snap-On Cover (part # VCMFDR4X4)	76 lbs	19"	1,000 lbs	84"/45RU	XDR8419-312N1M
	#12-24 Tapped 3" Vertical Upright w/Angle Base, Includes Two 4"x 4" Vertical Manager with Snap-On Cover (part # VCMFDR4X4)	89 lbs	19"	1,000 lbs	84"/45RU	XDR8419-312N2M
	2-Post Distribution Racks — Steel — Weld	ed				
	#10-32 Tapped 3" Vertical Upright w/Angle Base – Welded	66 lbs	19"	1,000 lbs	84"/45RU	XDR8419-310W
1	#12-24 Tapped 3" Vertical Upright w/Angle Base – Welded	66 lbs	19"	1,000 lbs	84"/45RU	XDR8419-312W
1	2- and 4-Post Zone 4 Seismic Distribution	Racks -	Steel	– Welde	d***	
1	2-Post Seismic Rack, #10-32 Tapped 6" Vertical Upright w/Angle Base	105 lbs	19"	900 lbs	84"/45RU	XDRS8419-610
	4-Post Seismic Rack, 28" Deep, #10-32 Tapped 6" Vertical Upright w/Angle Base	215 lbs	19"	900 lbs	84"/45RU	XDRS8419-61028
	4-Post Seismic Rack, 32" Deep, #10-32 Tapped 6" Vertical Upright w/Angle Base	220 lbs	19"	900 lbs	84"/45RU	XDRS8419-61032
1	2-Post Distribution Racks — Aluminum —	Knockdo	wn*			
	#12-24 Tapped, Black, Knockdown 3" Vertical Upright	30 lbs	19"	1,200 lbs	84"/45RU	BHRR194
•	4-Post Distribution Racks — Steel — Knoc	kdown*				
	4-Post Rack with Adjustable Depth 28"-32" -36", #10-32 Tapped 3" Vertical Upright w/Angle Base	115 lbs	19"	1,500 lbs	84"/45RU	XDR8419-3102836
	4-Post Rack with Adjustable Depth 28"-32" -36", #12-24 Tapped 3" Vertical Upright w/Angle Base	115 lbs	19"	1,500 lbs	84"/45RU	XDR8419-3122836
1	4-Post Rack with Adjustable Depth 28"-32"-36", M6 Cage Nut 3" Vertical Upright w/Angle Base	115 lbs	19"	1,500 lbs	84"/45RU	XDR8419-3M62836
•	4-Post Server Rack - Steel - Welded****					
:	XHM Series Black Frame with (4) Ajustable Mounting Rails, Square Hole Type with 6 mm Mounting Hardware Included. Frame Size 24"W x 42"D x 84"H (45RU), Includes Levelers and Casters	240 lbs	19"	2,000 lbs	85"/45RU	XH3M45-1100000
	Rack Accessories					
_	Copper Isolated Vertical Rack Busbar Kit for 84" Rack		<u>.</u>			XDR8419VGB01
1	Glastic Isolation Pad Kit for XDR/BHRR Series 2-Post Racks.	Includes (2)	Glastic Iso	plation Pads		

PDU Bracket Kit for XDR Rack, 4" Long, Black

and Hardware

XDRGIK-19

XDRPDUK401

2- and 4-Post Distribution Rack Managers and Accessories

Ordering Information

Description	Belden Part Number
Vertical Cable Managers	
Value Vertical Manager with Snap-On Cover 4"W x 4"D x 84"H, Black*	VCMFDR4X4
Single-Sided High-Density Vertical Manager w/Doors, 3 5/8"W x 84"H, Black	BHVH003
Single-Sided High-Density Vertical Manager w/Doors, 6"W x 84"H, Black	BHVH006
Single-Sided High-Density Vertical Manager w/Doors, 8"W x 84"H, Black	BHVH008
Single-Sided High-Density Vertical Manager w/Doors, 10"W x 84"H, Black	BHVH010
Single-Sided High-Density Vertical Manager w/Doors, 12"W x 84"H, Black	BHVH012
Single-Sided Low-Density Vertical Manager w/o Doors, 3 5/8"W x 84"H, Black	BHVL003
Single-Sided Low-Density Vertical Manager w/o Doors, 6"W x 84"H, Black	BHVL005
Single-Sided Low-Density Vertical Manager w/o Doors, 10"W x 84"H, Black	BHVL010
Single-Sided Low-Density Vertical Manager w/o Doors, 12"W x 84"H, Black	BHVL012
Double-Sided High-Density Vertical Managers w/Doors, 3 5/8"W x 84"H, Black	BHVHH03
Double-Sided High-Density Vertical Managers w/Doors, 6"W x 84"H, Black	BHVHH06
Double-Sided High-Density Vertical Managers w/Doors, 8"W x 84"H, Black	BHVHH08
Double-Sided High-Density Vertical Managers w/Doors, 10"W x 84"H, Black	BHVHH10
Double-Sided High-Density Vertical Managers w/Doors, 12"W x 84"H, Black	BHVHH12
ligh/Low-Density Vertical Manager w/Front Door, 3 5/8"W x 84"H, Black	BHVHL03
ligh/Low-Density Vertical Manager w/Front Door, 6"W x 84"H, Black	BHVHL06
ligh/Low-Density Vertical Manager w/Front Door, 10"W x 84"H, Black	BHVHL10
ligh/Low-Density Vertical Manager w/Front Door, 12"W x 84"H, Black	BHVHL12
Accessories for BHV Vertical Managers	
3 5/8"W, Black, Vertical Manager Backcover	BHBC03X
"W, Black, Vertical Manager Backcover	BHBC06X
0"W, Black, Vertical Manager Backcover	BHBC10X
2"W, Black, Vertical Manager Backcover	BHBC12X
5/8"W, Black, Vertical Manager Doors (1 pr)	BHDK03X
"W, Black, Vertical Manager Doors (1 pr)	BHDK06X
0"W, Black, Vertical Manager Doors (1 pr)	BHDK10X
2"W, Black, Vertical Manager Doors (1 pr)	BHDK12X
Slack Management Spool Kit, Black	BHSK020
Slack Management Spools (2), Black	BHSP020
Gate Kit, 3 5/8"W, Black	BHGL03X
Gate Kit, 6"W, Black	BHGL06X
Gate Kit, 10"W, Black	BHGL10X
Gate Kit, 12"W, Black	BHGL12X
Retention Gate (6) 3 5/8"W, Black	BHGR03X
Retention Gate (6) 6"W, Black	BHGR06X
Retention Gate (6) 10"W, Black	BHGR10X
Retention Gate (6) 12"W, Black	BHGR12X
inger Section, 11U, Black	BHFS11U
Rack-Mount Finger Bracket, 11U, Black	BHFB11U
Divider Bar, 3 5/8"W, Black	BHDB03X
Divider Bar, 6"W, Black	BHDB06X
Divider Bar, 10"W, Black	BHDB10X
Divider Bar, 12"W, Black	BHDB12X
astener for Vertical Manager (100)	BHPF100
ie Mount for Vertical Manager (100)	BHSM100
lorizontal Manager with Cover	
9"W x 1RU, Black	BHH191UR
9"W x 2RU, Black	BHH192UR
9"W x 3RU, Black	BHH193UR
9"W x 4RU, Black	BHH194UR
RU, Rack-Mount, Finger Duct Manager 1.75"H x 3.0"D Deep with Cover	9512-1901
RU, Rack-Mount, Finger Duct Manager 3.0"H x 3.0"D Deep with Cover	9512-1902N
Fransition Channel (Top transition channels are only compatible with knockdown racks)	
op Transition Channel, 19"W x 6"D x 1.75"H, Black	BHTT196
op Transition Channel High-Density, 19"W x 6"D x 6"H, Black	BHTTH196
ower Transition Channel, 19"W x 6"D x 1.75"H, Black	BHTL196
ower Transition Channel Double, 19"W x 6"D x 3.5"H, Black	BHTD196







VCMFDR4X4

BHBC10X (Vertical manager not included)



9512-1902N



BHTT196 and BHTD196



BHH192UC Horizontal Manager

* Value vertical manager is not compatible with BHRR194







XWR-1219 Wall-Mount Rack in Hinged Style (shown in closed position with equipment mounted)



XWB-2U 2RU Wall-Mount Bracket



XPE-S0001 1RU rack attach to basket tray

Ordering Information

XWR and XWB Series - Wall-Mount Racks

Hinged and swing-out for rear access in tight spaces

Wall-Mount Racks are available in two styles: hinged and swing-out. The hinged rack is 12" in height and features an adjustable lower shelf (adjusts 2" to 6"). The swing-out rack is available in heights of 36" and 48" with 19" mounting rails. 2RU, 4RU and 6RU Wall-Mount Brackets are also offered for mounting a limited number of components or pieces of equipment.



Heavy-Duty XWR Swing-Out Style Wall-Mount Rack



XWR-3619-18 Swing-Out Style Wall-Mount Rack



XWR Swing-out Style Wall-Mount Rack

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Description	н	w	D	Weight	Mounting	Load Capacity	Rack Spaces	Belden Part Number
Wall-Mount Racks								
Standard Swing-Out Rack: 36" Wall-Mount Rack with 19" Mounting Rails	36"	19.75"	18"	30 lbs	19"	100 lbs	19RU	XWR-3619-18
Heavy Swing-Out Rack: 36" Wall-Mount Rack with 19" Mounting Rails	36"	19.75"	18"	35 lbs	19"	200 lbs	19RU	XWR-3619-18HD
Standard Swing-Out Rack: 48" Wall-Mount Rack with 19" Mounting Rails	48"	19.75"	18"	39 lbs	19"	100 lbs	26RU	XWR-4819-18
Heavy-Duty Swing-Out Rack: 48" Wall-Mount Rack with 19" Mounting Rails	48"	19.75"	18"	40 lbs	19"	200 lbs	26RU	XWR-4819-18HD
Hinged Rack: 12" Wall-Mount Rack, Hinged, 19" Mounting Rails, Adjustable Lower Shelf 2"–11" to Accommodate Equipment Space	10.9"	19.5"	9.5"	26 lbs	19"	50 lbs	6RU	XWR-1219
Wall-Mount Brackets								
2RU Wall-Mount Bracket, Black	3.5"	19"	8"	4 lbs	19"	50 lbs	2RU	XWB-2U
4RU Wall-Mount Bracket, Black	7.0"	19"	8"	8 lbs	19"	50 lbs	4RU	XWB-4U
6RU Wall-Mount Bracket, Black	10.50"	19"	8"	10 lbs	19"	50 lbs	6RU	XWB-6U
1RU rack, includes basket tray attachment hardware	2.0"	19"	N/A	12 lbs	19"	20 lbs	1RU	XPE-S0001







XSW Series – Swing Racks Free standing swing-out rack used where space is limited

The Swing Rack provides easy access to the rear of rack-mounted equipment in a free standing environment.

It is ideal for applications where space is limited and rear access is essential.

- Rack can be assembled as a left or right hinge and open 90°
- Rack can be positioned as close as 7" from wall
- Equipment up to 18.5" deep can be pivoted
- Cable management allows for cable routing without interference of the swing rack
- Racks can be bolted side-to-side
- Friction lock prevents rack movement while servicing





XSW Front View

Ordering Information

Description	Weight	Mounting	Load Capacity	Rack Spaces	Belden Part Number
Swing Racks					
84" Swing-Out Distribution Rack	179 lbs	19"	500 lbs	43RU	XSW-8419
Accessories (Sold Separately)					
Top Mounting Wire Basket	_	_	_	_	XSW-0200
Power Strip Mounting Kit	_	_	_	_	XSW-0100



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BELDEN



Broadcast Racks and Cabinets



Belden offers four series of high-quality racks and cabinets for your unique entertainment, security, head-end and mobile telecom applications.

Engineered for Performance and Ease of Installation for Broadcast, AV, Security, Head-End and Mobile Telecom Applications

Belden has designed its broadcast, AV and security rack/cabinet series using the same top-quality and user-friendly principles that go into all of our market-leading solutions. These uncompromisingly strong and well-built structures are combined with component features that optimize cable performance and provide extraordinary flexibility in cable management. These features provide a unique approach to equipment housing and storage needs.

The following pages detail the breadth of our rack/cabinet offering for the entertainment, security and broadcast industries. In addition, Belden offers a complete array of shelves

for 19" mount racks and cabinets, including cantilevered, 4-point mount, sliding and keyboard-type shelves.

Advantages of Belden Broadcast Rack and Cabinet Series

Construction

• Welded frame construction for greater strength and structural integrity is standard on all broadcast racks and cabinets

Accessories

· A full complement of accessories will outfit your cabinets with the needed mounting, shelving, work surface and cable management support

Ease of Installation

• EIA rails are marked with rack space increments for ease of equipment mounting

Cable Management

- Numerous top and bottom entry points simplify cabling
- The rounded, steel-formed cable tie bar (Photo A) reduces pressure points
- The multiple attachment points for our Quick Mount System - or nylon ties along the mounting rails, rail supports and cable tie bar (Photos B and C) - provide the utmost flexibility in cable routing and lacing
- The Quick Mount System (Photo D) is comprised of a unique swivel base and base fastener. Velcro ties are easily threaded through the fastener base, allowing the cable bundles to be secured to the rack. The system's swivel base allows for a 90° angle between the cable bundle and the cable tie to allow pressure distribution along the cables

Aesthetics

- · Powder-coating process provides a textured black finish for a highly resistant, high-end look that showcases your equipment
- Aesthetics can be tailored to your requirements with a variety of doors, panels and customized silk-screening options

Temperature Control

• Perforated and vented doors, along with a variety of top panel options, provide flexible cooling options

Power Distribution

- A complete line of Belden power distribution units, including rack-mount and vertical-mount options, can be found on **pages 69-78**
- · Grounding studs allow for integral grounding of cabinets and accessories

Seismic Rating

• XME and XMER Series include NEBS seismic ratings when anchored with optional seismic anchor bracket kit



The cabinet shown here is the XMER Style (Media Cabinet)









Photo C







Photo D





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FIA Bail Kits

Broadcast Racks and Cabinets



Side Panels



Top Panels



Advantages of Belden Broadcast Rack

and Cabinet Series (continued) Features and Benefits

FIA Rail Kits

- Rails are made of 12-gauge steel (XSF uses 16-gauge steel)
- Use standard EIA-310 hole-pattern (10-32 or 12-24 tapped holes)
- Fully adjustable depth; designed to be moved without need to remove rail support hardware
- Mounting hardware supplied with rack
- A series of lacing holes along the rails allow for the easy attachment of cables. Holes are also compatible with our Quick Mount fasteners
- RU marking on all rails facilitates equipment mounting
- RU marks are hidden once the equipment is mounted

Side Panels

- The tool-less, surface-mounted side panels are quick and easy to install
- Flush version side panels (available only on the XMF Series) can be installed in between joined racks (heat barrier) or end-of-row units without any additional floorspace requirements
- Panels can be used to transform a rack into a free standing cabinet or to close a row on ganged racks (enhancing the installed look and providing added security)
- Feature lifting handles for easy panel removal

Top Panels

- · Solid tops prevent dust from entering the cabinet
- Vented tops allow for convection cooling
- Solid top with 10" (550 CFM) fan for forced hot air evacuation
- Solid top with four 4" (320 CFM), low-noise fans for forced hot air evacuation

Doors

- · Rugged and rigid construction
- Doors mounted with lift-off hinges are capable of 180° swing, even when cabinets are ganged
- Door swing is field reversible

1.800.BELDEN.1 (800.235.3361)

- Glass door uses anti-static tempered glass, allowing easy cleaning, rigidity and high-end look
- Perforated door features 63% mesh opening allowing for minimal air resistance for optimized
- cooling High-guality swing latch

includes locking mechanism

Side Cable Chase

- (Available on XMER Series) • Adds 4" of valuable cable management space
- Can be mounted to the side of the cabinet and is compatible with the side panels - or can be mounted in between the cabinets to share cable management space



- 4" riser base allows for easy cable routing from rack to rack
- Available in XMF Series: gangable 1-, 2- and 3-bay bases with easy-to-use anchoring holes
- · Series of mounting holes allow rack to be secured using common nuts and bolts
- Feature power outlet mounting openings with cover plate
- Includes mounting hardware and grounding stud
- Multi-rack riser bases to meet your specific space requirements (length, height) are available on custom basis
- · Allows for easy



- · Installs directly to bottom flanges of cabinet
- Recessed casters allow the leveling legs to be lowered when the cabinet is in position and raises the casters off the floor
- Includes hardware

Rack-Mount Drawer

- Convenient sliding storage drawers
- 16" deep with lock
- · Available in four heights

Front-Mount Work Surface

- · Provides a convenient work surface
- 16" deep, single-bay (22") and double-bay
- (44") width



Recessed **Caster Base**

rack

positioning of the



Advantages of Belden Broadcast Rack

and Cabinet Series (continued) Features and Benefits

Vertical Lacing Bar

- 1" wide vertical lacing bar is supplied with mounting hardware
- Mounts to the rail supports; fully adjustable depth
- Series of lacing holes are compatible with Belden Quick Mount fasteners to provide flexibility in cable routing

Grounding Provision

- Belden racks are provisioned with grounding studs, enabling integral grounding of rack and accessories
- The copper vertical ground bar mounts to the rack support
- Fully adjustable depth
- Bar is 3/4" wide x 1/8" thick

Vertical Lacing Panel

- Mounts to the rail support
- Fully adjustable depth
- Panel is 3" wide and features multiple lacing points
- Ideal for attaching cable bundle

Quick Mount Fasteners

 Velcro hook and loop with cable tie mount and fasteners provide a quick, flexible way to route the cable bundle within the rack

og. 52-53

 Racks are designed with multiple attachment holes (rails, rail supports) for flexibility, ease of installation and cable integrity protection



offerina

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ΠÎ

- Includes monitored and
- IP-based smart PDUs Climate monitoring
- option available
- (See pages 69-78)

Shelves

- Broad selection for 19" mount racks and cabinets
- Cantilevered, 4-point mounted, sliding and keyboard styles

(See page 64)



Belden Broadcast Rack and Cabinet Series Comparison Chart

	Specifications	XSF	XMF	ХМЕ	XMER
Application		Broadcast, Mobile Telecom, Space Optimization	Broadcast	Broadcast, AV, Security	Broadcast, AV, Security, Head End
Style		Rack Gangable	Rack Gangable Rack/Cabinet Stand-Alone or Gangable		Rack/Cabinet Stand-Alone or Gangable
Height		20.5"–87" (10–48RU)	22.25"–103" (11–57RU)	48.87"–83.87" (24–44RU)	48.87"–83.87" (24–44RU)
Dimensions:	Width	19.19"	22"	22"	22"
	Depth	18", 24" or 30"	24", 30", 36" or 40"	20" or 26.5"	26.5", 31.5" or 36"
Frame (Construction (Fully Welded)	11-Gauge Steel	11- and 14-Gauge Steel	16-Gauge Steel	14- and 16-Gauge Steel
Front and Rear Mounting Rails		Yes: Tapped Corner Posts, (fixed front), Adjustable Rear Rails (5/8" increments)	Yes Fully Adjustable	Yes Fully Adjustable	Yes Fully Adjustable
	EIA-310 Compliant	Yes (#10-32 or 12-24 tapped)	Yes (#10-32 or 12-24 tapped)	Yes (#10-32 tapped)	Yes (#10-32 tapped)
Door Options:	Reversible Front and Rear Doors	No	Yes	Yes	Yes
Door Options:	Solid, Perforated or Tempered Glass	-	Solid or Vented	Yes	Yes
	Top Options	No	Solid, Vented, Forced Air Fan	Solid, Vented, Forced Air Fan	Solid, Vented, Forced Air Fai
Side Panel	Removable	No	Yes	No: Fixed	Yes
Options:	Panel Style	-	Flush or Surface-Mount	Built-In Frame	Surface-Mount
Shelves	(Solid, Vented and Keyboard)	Yes	Yes	Yes	Yes
	Caster Base Option	No	Yes	Yes	Yes
Powe	r Strip Mounting Provision	Yes	Yes	Yes	Yes
Cat	ble Management Tie Bar	No	Yes, Optional	No	Yes, Optional





XSF Series Racks in ganged arrangement

XSF Series – Slim Frames

Light and customizable frames for broadcast trucks and mobile telecom



Part No. shown here: XSF473010000 (47RU H x 19.19"W x 30"D)

Applications

The ultra-slim XSF frame has been designed to minimize the footprint for installation and use in mobile TV trucks. The narrow 19.19" width will accommodate standard 19" mount equipment. The frames gain strength when ganged together in a series.

Design and Structural Features

- Available in 14 heights and 3 depths
- 11-gauge steel, one-piece formed top and bottom; 11-gauge steel formed vertical corner posts
- 20.5" (10RU) to 87" (48RU) Height x 19.19" Wide x 18", 24" or 30" Deep
- Optional aluminum, weight-saving version available on request
- Front corner post contains EIA-310 hole pattern: 10-32 or 12-24 tapped
- Rail support channels are 16-gauge steel, riveted and welded in place

Ease of Installation

- One pair, 16-gauge steel EIA rails, moveable front to rear in 0.62" increments
- Each frame is supplied with 10-32 or 12-24 clip nuts for attaching equipment to the rails
- Holes in side flanges of each corner post are available for ganging purposes
- Open bottom with hole pattern to bolt frame to floor; captive grounding studs in bottom sills

Color

• Black durable powder coat







XSF Series – Options and Accessories



Quick Mount with Fastener, 10 Pieces



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Part No. shown here: XMF4424100000TB (44RU H x 22" W x 24" D)

XMF Series - Media Frames

Flexible cable management in a narrow frame for broadcast studios



Part No. shown here: XMF4424102140 (44RU H x 22" W x 24" D)

Cable Management

- Numerous lacing points on two surfaces of each rail support
- Cable tie holes span entire length of EIA rail on the attachment flange (spaced at 1.75")
- Unique cable tie bar is made of formed steel to eliminate sharp edges; provides multiple attachment points; features cable bend radius control and lacing holes; factory mounted when tie bar option is selected

Design and Structural Features

- Available in 26 heights and 4 depths for versatility in designing studios or production facilities
- 11-gauge steel corner posts; 11-gauge formed top and bottom members; 14-gauge formed rail supports
 - 22.25" (11RU) to 103" (57RU) Height x 22" Wide x 24", 30", 36" or 40" Deep
- (4) 12-gauge EIA mounting rails (10-32 or 12-24 tapped)
- Frame is provisioned to accept optional front and rear doors, side and top panels
- Reversible Doors: Surface-Mount solid, 16gauge doors or top and bottom vented styles
- **Side Panel:** Solid, 16-gauge flush side panel or 1-piece formed Surface-Mount panel; Surface-Mount panels add 1/2" per side to overall width
- Top Panel: Solid, vented or with 10" fan
- Vertical Spacing Panel: Easy-to-install; 2.75", 3.66", 4.40" and 5.50" widths; 11RU–57RU heights
- Riser Base: 4" height, 1-3 bays; fully welded, gangable; power outlet openings with covers; anchoring holes supplied to ease installation
- **Caster Base:** Recessed; 20", 30", 36" and 40" depths; adds 2.5" to frame height; caster bases install directly to bottom flanges of cabinets; casters are recessed, enabling leveling legs to be lowered when cabinet is in position, allowing the casters to be raised off the floor
- Rack-Mount Drawers: 16" deep sliding storage drawers with lock; available in four heights; mount on EIA rails (mounting hardware included); compatible with all 19" mount racks

Ease of Installation

- Frame is provisioned for attaching a tool-less, formed Surface-Mount side panel or a flat, flush panel; flush side can be installed between joined cabinets without any additional floorspace
- Vertical spacing panels add cable management space between racks; includes two panels with attachment studs; panel features lifting handles
- Open top with optional configurable panels
- Open bottom with hole pattern to bolt frame to floor or a raised base; captive grounding studs in bottom sills
- Ganging can be done after equipment is placed in rack

Color

Black durable powder coat

Static Load Capacity

• 1,000 lbs.





XMF Series – Options and Accessories

Refer to RU and FRAME DEPTH charts (above).





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XMF Series - Options and Accessories (continued)

Refer to RU and FRAME DEPTH charts (on previous page).



XME Series – Media Cabinets

Cost effective and efficient design for broadcast, commercial AV and security applications

Design and Structural Features

- · Available in four heights and two depths
- 16-gauge, one-piece formed and vented sides; 16-gauge formed bottom and top
 - 48.87" (24RU) to 83.87" (44RU) Height x 22" Wide x 20" or 26.5" Deep
- Top and bottom EIA rail support channels are an integral part of the top and bottom; formed center rail support channels are spot welded to the sides
- Two 12-gauge EIA mounting rails (10-32 tapped); additional rails can be added (optional)
- · Front and side ventilation for convection cooling
- Stand alone or gangable, with integrated side panels
- Reversible Doors: Frame is available with optional front and rear solid, glass or perforated Surface-Mount doors
- Top Panel: Solid, vented, with 10" fan or (4) 4" fans; depths of 20 and 26.5"
- Caster Base: Recessed, depths of 20" and 26.5"; adds 1" to height of frame; casters are recessed, allowing leveling legs to be lowered when cabinet is in position, allowing casters to be raised off the floor
- Rack-Mount Drawers: 16" deep sliding storage drawers with lock; available in four heights; mount on EIA rails (mounting hardware included); compatible with all 19" mount racks

Cable Management

- Rear Access Top: three antenna knockouts, each .62" dia. two conduit knockouts, .87" dia. and 1.12" dia. 9" x 2.25" opening with cover plate. Bottom: 4 conduit knockouts, two @ .87" dia., two @ 1.12" dia. 9" x 2.25" opening with cover plate
- Side Access Top: 4" dia. knockout, located toward the rear. Bottom: 4" dia. knockout, located toward the rear. Optional edge guard to protect the cable is available
- Top Access 1", 1.5" and 2" knockouts, located toward the rear of top panel
- Cable tie holes span entire length of EIA rail on the attachment flange (spaced at 1.75")
- Fully open top and bottom facilitate cable routing

Ease of Installation

- Partially open top with optional configurable panels; rear of top contains various electrical knockouts for cable entry
- Open bottom with leveling legs and hole pattern to bolt frame to floor, captive grounding studs in bottom sills
- · Ganging can be done after equipment is placed in rack



Part No. shown here: XME442641310 (44RU H x 22" W x 26" D)

Color

• Black durable powder coat

Static Load Capacity

• 2,000 lbs.





Part No. shown here: XME44260001 (44RU H x 22" W x 26" D)





XME Series – Options and Accessories

Refer to RU and FRAME DEPTH charts (above) as needed.





XME Series - Media Cabinet Options and Accessories (continued)

Refer to RU and FRAME DEPTH charts (on previous page).

· · · · · · · · · · · · · · · · · · ·		
Front-Mount Work Surface For standard 19" mounting.	Vent Kits Allows for top vent to be blocked to optimize forced air cooling (fanned top).	
Work Surface	Vent Kit SVC Side Vent Cover Kit. Plate to Block Off Vents in Side FVC Front Vent Cover Kit. Plate to Block Off Vents in Front	
Vertical Lacing Panel	EIA Rail Kits – 1 Pair with Hardware XMER RT10 RT10 Rail Height (Frame HT) 24 48 ^a 40 76 ^a 35 67.5 ^a 44 83 ^a	EIA Rail Kits
Recessed Caster Base	Rack-Mount Drawers For standard 19" mounting. Prover Height 2 2RU 3 3RU 5 5 5RU	Rack-Mount Drawers
		Hack mount Drawers
Description	Belden Part Number	
Other Accessories		
Lacing Accesories		
Quick Mount with Fastener, 10 Pcs. Velcro 12" Long, Hook and Loop, 10 Pcs./Kit Velcro 18" Long, Hook and Loop, 10 Pcs./Kit Velcro 24" Long, Hook and Loop, 10 Pcs./Kit	XMFCTM XCTV12 XCTV18 XCTV24	
Rack-Mount Lacing Bar	X01V24	
Rack-Mount Lacing Bar	9512-1903	Quick Mount Swivel Base Fastener >
Top Mounted Ladder Rack Support		
Top-Mounted Ladder Rack Support	XMELM	-
Adjoining Kit		
(4) 1/4" Whiz Bolt and Whiz Nuts	XMEBK01	-
Grounding Kit		
Straps and 1/4" Wing Nuts	XMEGK01	
Edge Guard Kits		
Edge Guard Kit	XMEEG01	
Seismic Anchor Bracket Kit	VMEDED	
Seismic Anchor Bracket Kit	XMERSB	-













XMFCTM







Part No. shown: XMER44310000 (44RU H x 22" W x 31.5" D)

XMER Series - Media Cabinets

Flexible and economical design for broadcast, commercial AV, security and head-end applications



Part No. shown: XMER443131320 (44RU H x 22" W x 31.5" D)

Ease of Installation

- Open top with optional configurable panels
- Open bottom with leveling legs and hole pattern to bolt frame to floor; captive grounding studs in bottom sills
- Ganging can be done after equipment is placed in rack

Design and Structural Features

- Available in four heights and three depths; taller units (48RU, 50RU and 52RU) available on demand
- 14-gauge, one-piece formed top and bottom;
 16-gauge formed vertical corner posts
 48.97" (ADLIN to 82.97" (ADLIN Height x 20)
 - 48.87" (24RU) to 83.87" (44RU) Height x 22" Wide x 26.5", 31.5" or 36" Deep
- EIA rail support is integral part of the top and bottom with spot-welded inner support channel
- Middle rail support channels are spot-welded construction of two 16-gauge formed rail channels, creating .12" thick support channels per side
- (4) 12-gauge EIA mounting rails (10-32 tapped)
- **Reversible Doors:** Frame available with optional front and rear solid, glass or perforated surface-mount doors
- Side Panels: Surface-Mount removable side panels, adds 5/8" to overall width
- **Top Panel:** Solid, vented, with 10" fan or (4) 4" fans; depths of 26.5", 31.5" and 36"
- 48.87"-• Side Cable Chase: 4" wide chase for added
 able management; can be mounted between
 cabinets or used as side unit; will accept a side
 panel (44RU cabinets only)
 - **Caster Base:** Recessed, depths of 26.5", 31.5" and 36"; adds 1" to frame height. Caster bases install directly to bottom flanges of cabinets; casters are recessed, allowing leveling legs to be lowered when cabinet is in position, and casters to be raised off floor

Cable Management

- Rear Access Top: three antenna knockouts, each 0.62" dia. two conduit knockouts, 0.87" dia. and 1.12" dia. 9" x 2.25" opening with cover plate; Bottom: four conduit knockouts, two @ 0.87" dia., two @ 1.12" dia. 9" x 2.25" opening with cover plate
- **Top Access** 1", 1.5" and 2" knockouts, located toward rear of top panel
- Lacing points on two surfaces of each rail support facilitate cable management
- Cable tie holes span entire length of EIA rail on attachment flange (spaced at 1.75")
- Cable tie bar made of formed steel, eliminates sharp edges; provides multiple attachment points; features cable bend radius control and lacing holes; factory mounted when tie bar option is selected

Static Load Capacity

• 2,000 lbs.







XMER Series – Options and Accessories

Refer to RU and FRAME DEPTH charts (above).







XMER Series - Options and Accessories (continued)

Refer to RU and FRAME DEPTH charts (on previous page).

EIA Rail Kits - 1 Pair with Hardware



Rack-Mount Drawers

For standard 19" mounting.

Recessed Caster Base

4 4RU

5 5RU

CB1

RMD

2 2RU

22

Ba 26 26

31 31"

36 36"

se Depth

3

Drawer Height

3RU







Vertical Lacing Panel





Belden Part Number Description **Other Accessories Lacing Accesories** Quick Mount with Fastener, 10 Pcs. XMFCTM Velcro 12" Long, Hook and Loop, 10 Pcs./Kit XCTV12 Velcro 18" Long, Hook and Loop, 10 Pcs./Kit XCTV18 Velcro 24" Long, Hook and Loop, 10 Pcs./Kit XCTV24 **Rack-Mount Lacing Bar** 9512-1903 Rack-Mount Lacing Bar **Top-Mounted Ladder Rack Support** Top-Mounted Ladder Rack Support XMELM **Adjoining Kit** (4) 1/4" Whiz Bolt and Whiz Nuts XMEBK01

Grounding Kit Straps and 1/4" Wing Nuts XMEGK01 Seismic Anchor Bracket Kit Seismic Anchor Bracket Kit XMERSB



EIA Rail Kits



Rack-Mount Drawers



Recessed Caster Base



Seismic Anchor Bracket Kit



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SECTION THREE Components and Accessories



Large Selection of Rack and Cabinet Accessories to Meet Equipment Mounting, Cable Management, Grounding/Bonding and Access Control Challenges

Components and accessories designed for seamless compatibility with Belden racks and cabinets products.

- Cantilevered and 4-point mount shelf mounting options for non-rack mount components
- Organize and manage patch cords and cables with horizontal managers available in multiple sizes and capacities
- Optimize air separation for improved availability with solid and brushed filler panels
- Ensure installation security and electrical conformance with bonding and grounding products
- Meet active equipment mounting requirements with multiple mounting hardware products
- Access control for cabinets protects your physical assets and data

Remotely manage server access

while maintaining an indisputable audit trail with Belden Cabinet Access Systems.



9015-1909

Technical Specifications

Description	Depth*	Load Rating	Belden Part Number
19" Heavy-Duty Adjustable Shelf (Vented), 4-Point Mounting	24"	150 lbs	9010-1924
19" Heavy Duty Adjustable Shelf (Vented), 4-Point Mounting	30"	150 lbs	9010-1930
19" Heavy Duty Adjustable Shelf (Vented), 4-Point Mounting	36"	150 lbs	9010-1936
19" Flush Mount Cantilevered Shelf (Vented) – Compatible with 27.5" Deep Wall-Mount Cabinets	12"	50 lbs	9011-1912
19" Flush Mount Cantilevered Shelf (Vented)	18"	50 lbs	9011-1918
19" Flush Mount Cantilevered Shelf (Vented)	18"	25 lbs	9011-1918-16
19" Flush Mount Cantilevered Shelf (Solid)	18"	50 lbs	9012-1918
19" Flush Mount Cantilevered Shelf (Solid)	18"	25 lbs	9012-1918-16
19" Heavy-Duty Sliding Adjustable Shelf (Vented), 4-Point Mounting	24"	100 lbs	9013-1924
19" Sliding Rotating Keyboard Shelf	N/A	N/A	9015-1909

Note: *Compatibility with cabinet frame size to be validated when selecting shelf depth.





Horizontal Cable Management

Application

Horizontal managers allow routing of copper and fiber cables/patch cords in racks and cabinets while helping to maintain proper bend radius and organize array for ease of moves, adds and changes.

Features include:

- 1RU to 4RU height
- 19" mount includes mounting hardware
- Compatible with racks and cabinets
- Selection of ring, finger and cable tie bar style horizontal managers
- Standard color is black (other colors available on volume orders)



Top: 9512-1901, Bottom: 9512-1902







9510-1901



9511-1902



BHH192UC Horizontal Manager



9511-1904-01

Components and Accessories

Horizontal Managers

Description	RU	Manager Cross Section	Belden Part Number
Horizontal Manager with Saddle Rings	1RU	1.65"H x 3"D	9510-1901
Horizontal Manager with Saddle Rings	2RU	3"H x 3"D	9511-1902
Horizontal Manager with Finger Stock and Cover	1RU	1.5"H x 2"D	9512-1901
Horizontal Manager with Finger Stock and Cover	2RU	3"H x 3"D	9512-1902N
Horizontal Manager with Finger Stock and Cover, Front & Rear	2RU	3"H x 3"D Front/Rear	9512-1902-FR
Horizontal Manager with Molded Fingers and Hinging Cover, Enclosure Application	1RU	1.75"H x 5.66"D	BHH191UC
Horizontal Manager with Molded Fingers and Hinging Cover, Enclosure Application	2RU	3.5"H x 5.66"D	BHH192UC
Horizontal Manager with Molded Fingers and Hinging Cover, Enclosure Application	3RU	5.25" x 5.66"D	BHH193UC
Horizontal Manager with Molded Fingers and Hinging Cover, Enclosure Application	4RU	7" x 5.66"D	BHH194UC
Horizontal Manager with Molded Fingers and Hinging Cover, Open Rack Application	1RU	1.75"H x 7.22"D	BHH191UR
Horizontal Manager with Molded Fingers and Hinging Cover, Open Rack Application	2RU	3.5"H x 7.22"D	BHH192UR
Horizontal Manager with Molded Fingers and Hinging Cover, Open Rack Application	3RU	5.25"H x 7.22"D	BHH193UR
Horizontal Manager with Molded Fingers and Hinging Cover, Open Rack Application	4RU	7"H x 7.22"D	BHH194UR
Horizontal Manager with Molded Fingers and Hinging Covers, Open Rack Application, Front and Rear Cable Management	1RU	1.75"H x 12.25"D	BHH191UFR
Horizontal Manager with Molded Fingers and Hinging Covers, Open Rack Application, Front and Rear Cable Management	2RU	3.5"H x 12.25"D	BHH192UFR
Horizontal Cable Tie Bar with 1.5" Deep Offset	1RU	N/A	HCB-1932-1.5-01
Horizontal Cable Tie Bar with 2.5" Deep Offset	2RU	N/A	HCB-1932-2.5-01
Horizontal Ring Style Manager, High Capacity, Open Rack Application	2RU	3.5"H x 6.8"D	9511-1902-01
Horizontal Ring Style Manager, High Capacity, Open Rack Application	3RU	5.25"H x 6.8"D	9511-1903-01
Horizontal Ring Style Manager, High Capacity, Open Rack Application	4RU	6.9"H x 6.8"D	9511-1904-01





Light Kits



9420-1905



Steel Filler Panels



Plastic Filler Panel



XFPWB2U101

Brushed filler panel allows routing of cable from front to rear while providing airflow separation. Panel is open ended, allowing mounting without having to unplug cables.

Construction

- Light Kits are compatible with all 19" mount racks or cabinets
- Uses one rack unit
- Includes 120V AC adapter and mounting hardware
- Options

Description	Belden Part Number
Dual Adjustable 5W Halogen Lights & Dimmer, UL Listed	9420-1905
Single Adjustable 5W Halogen Light & Dimmer, UL Listed	9420-1906

Filler Panels

Application

- Filler Panels allow blocking of unused rack units (RUs) for optimized airflow and separation between cold supply air and hot return air
- Best practices in data centers include blanking of all unused rack units
- Filler Panels are compatible with 19" mount racks and cabinets

Description	Color	Belden Part Number
Options		
Filler Panels, Steel (includes Mounting Hardware)		
1RU Solid Filler Panel	Black/CO White	9910-0100-01/-02
2RU Solid Filler Panel	Black/CO White	9911-0200-01/-02
2RU Solid Filler Panel with Belden Logo Silk Screen	Black	9911-0201-01
3RU Solid Filler Panel	Black/CO White	9912-0300-01/-02
4RU Solid Filler Panel	Black/CO White	9913-0400-01/-02
8RU Solid Filler Panel	Black/CO White	9914-0800-01/02
Filler Panels, Plastic Tool-Less		
1RU Solid Filler Panel (fits 10-32, 12-24 and square holes rails)	Black/CO White	9910-0100PL-01/-02
2RU Solid Filler Panel (fits 10-32, 12-24 and square holes rails)	Black/C0 White	9911-0200PL-01/-02
Filler Panels with Brush Pass Through (includes Mounting Hard	dware)	
1RU Filler Panel with Brush (open ended)	Black/CO White	XFPWB1U101/02
2RU Filler Panel with Brush (open ended)	Black/CO White	XFPWB2U101/02
3RU Filler Panel with Brush (open ended)	Black/CO White	XFPWB3U101/02
4RU Filler Panel with Brush (open ended)	Black/CO White	XFPWB4U101/02

XCS Stand-Off

Application

Belden XCS-series 19" rack-mount cable stand-offs provide horizontal cable lacing provisions while keeping the cabling distanced from equipment installed in a rack or cabinet.

Description	Belden Part Number
19" Rack-Mount Cable Standoff with Multiple Obrounds for Lacing, No Offset, Black	XCS-00-01
19" Rack-Mount Cable Standoff with Multiple Obrounds for Lacing, 2" Offset, Black	XCS-02-01
19" Rack-Mount Cable Standoff with Multiple Obrounds for Lacing, 4" Offset, Black	XCS-04-01
19" Rack-Mount Cable Standoff with Multiple Obrounds for Lacing, 5" Offset, Black	XCS-05-01
19" Rack-Mount Cable Standoff with Multiple Obrounds for Lacing, 6" Offset, Black	XCS-06-01
19" Rack-Mount Cable Standoff with Multiple Obrounds for Lacing, 8" Offset, Black	XCS-08-01

Components and Accessories



Grounding and Bonding

Options

Description	Belden Part Number
19" Horizontal Isolated Copper Ground Bar, .25" Thickness x 1" W, Tapped 10-32	9714-0190
Grounding/Bonding Strap Kits	
Bonding Strap Kit (11" strap with hardware)	XBS-11-0001-KIT
Bonding Strap Kit (18" strap with hardware)	XBS-18-0001-KIT
Grounding Lug Kit (Ground Lug and 1/4-20 Kep Nut)	20128-KIT



19" mount grounding bar is 0.25" thick x 1" wide, with #10-32 tapped holes; isolating mounts with hardware are included.

Notes: Bonding strap kit is included with cabinet doors, sides and top panels. Grounding lug kit is for use with rack and cabinet welded ground studs.

Mounting Hardware

Application

Included adjoining hardware for ganging of racks and cabinets, plus a variety of bolts, screws and nuts for mounting active and passive networking devices into racks and cabinets.

Description	Quantity/Package	Belden Part Number
10-32 Hardware		
10-32 Mounting Screws	50	8911-0100
10-32 Cage Nuts (for use with square hole rails)	50	8915-0100
10-32 Cage Nuts (for use with square hole rails)	20	8915-0220
10-32 Clip Nuts	20	8915-0320
12-24 Hardware		
12-24 Mounting Screws	50	8917-0100
12-24 Cage Nuts (for use with square hole rails)	50	8917-0220
12-24 Clip Nuts	20	8917-0320
M6 Hardware		
M6 Cage Nut (for use with square hole rails)	50	8913-0100
M6 Cage Nut (for use with square hole rails)	20	8913-0220
M6 Clip Nut	20	8913-0320
M6 x 16 mm Mounting Screw	50	8914-0100
Cable Ties		
Velcro Cable Ties, 8"L x 0.5"W, 25 per Roll	25	AX100783
Velcro Cable Ties, 12"L x 0.5"W, 25 per Roll	25	AX100784
12" Fiber Optic Cable Manager	1	AX102516
24" Fiber Optic Cable Manager	1	AX102517
Quick Mount Velcro Saddle with Fastener	10	XMFCTM



AX102516 Cable Slack Management Ring - 12" diameter

Adjoining Hardware

Description	Cabinet Series	Belden Part Number
Cabinet Adjoining Kit (4) 5/16-18 Hex Head Bolt; (4) 5/16-18 Hex Nut; (8) 5/16 Flat Washer)	XHN, XHM, XHS,	8910-0100
	XHMS, XHSS	
Bolt-Together Kit for XSF Frames (incl. hardware)	XSF	XSFBK01
Adjoining Kit (4) 1/4-20 x 5/8 Carriage Bolt; (4) 5/16 External Tooth Lock Washer; (4) Whizlock Nuts	XMF	XMFBK01
Loaded Rack Application Bolt Kit (4) 12-24 x 1 3/4 Screw; (8) External Tooth Washer; (4) 12-24 Hex Nuts; (4) .5 x .125"W Tubing Nylon	XMF	XMFBK02
Adjoining Kit (4) 1/4-20 x 5/8 Whizlock Bolt; (4) 1/4-20 Whizlock Nut	XME, XMER	XMEBK01
Joining Kit (4) 5/16 x 1 Bolt, (8) 5/16 Washers, (4) 5/16 Nuts	—	XBK01

Note:

Adjoining hardware is included with the cabinets.



Access control with schematic



BEH-CTRL BUS Controller



BEH-Nx Cabinet Node



BEH-Sx Sentry



BEH-EN BUS Enline Reader w/PIN and Fingerprint



Cabinet Access Systems

Application

Physical asset protection/access is key to IT operations, such as data centers, enterprise and remote computing locations. Belden cabinets can be equipped with a variety of locking handles, including state-of-the-art cabinet access control and management solutions, allowing conformance to privacy rules and regulations (PCI DSS, HIPAA, FISMA and more).

Features

- Centralized administration of up to thousands of units
- Real-time monitoring and alerts
- Indisputable audit trails
- Cabinets or row-pod-level access
- Flexibility to choose between fingerprint or RFID card access

Standalone cabinet access systems are for smaller or distributed installations. Each cabinet has a dedicated controller and biometric (BioLock) or card reader (CardLock) for user authentification.

In a networked cabinet access system, a central controller distributes control signals and power to up to 32 cabinets when authenticating at the cabinet level and 31 cabinets when authenticating at the end of row. For cabinet-level authentication, choose between fingerprint (BioLock) or RFID card (CardLock). For end-ofrow authentication, the user enters the cabinet door they are attempting to access, then uses any combination of PIN, RFID card and fingerprint to authenticate.

Description	Belden Part Number		
Smart Lock/Access System			
BUS Controller	BEH-CTRL		
End of Row Reader			
Enline reader w/PIN and fingerprint	BEH-EN		
Enline reader w/PIN, fingerprint and LF (125 KHz Prox) RFID	BEH-ENLF		
Enline reader w/PIN, fingerprint and HF (HID iClass 13.56 MHz)	BEH-ENHF		
Enline reader w/PIN, fingerprint and HF (HID iClass 13.56 MHz) and LF (125 KHz Prox) RFID	BEH-ENHFLF		
Bus Node Kits - Networked Application (Multiple Cabinets)			
Cabinet Node w/ 1 BioLock, 1 ELock, 2 Door Position Sensors	BEH-NBE2S-S		
Cabinet Node w/ 2 BioLocks, 2 Door Position Sensors	BEH-NBB2S-S		
Cabinet Node w/ 1 HF MULTICARDLOCK and 1 ELock, 2 Door Position Sensors	BEH-NMHE2S-S		
Cabinet Node w/ 2 HF MULTICARDLOCKs, 2 Door Position Sensors	BEH-NMHMH2S-S		
Cabinet Node w/ 2 ELocks, 2 Door Position Sensors	BEH-NEE2S-S		
Cabinet Node w/ 1 KeypadLock and 1 Elock, 2 Door Position Sensors	BEH-NKE2S-S		
Cabinet Node w/ 2 KeypadLocks, 2 Door Position Sensors	BEH-NKK2S-S		
Cabinet Node w/ 1 HF CodeLock and 1 Elock, 2 Door Position Sensors	BEH-NCHE2S-S		
Cabinet Node w/ 2 HF CodeLocks, 2 Door Position Sensors	BEH-NCHCH2S-S		
Cabinet Node w/ 1 HF/LF CodeLock and 1 Elock, 2 Door Position Sensors	BEH-NCHLE2S-S		
Cabinet Node w/ 2 HF/LF CodeLocks, 2 Door Position Sensors	BEH-NCHLCHL2S-S		
Sentry Kits - Cabinet (Stand-Alone) Applications			
Sentry w/ 1 BioLock, 1 ELock, 2 Door Position Sensors	BEH-SBE2S-S		
Sentry w/ 2 BioLocks, 2 Door Position Sensors	BEH-SBB2S-S		
Sentry w/ 1 HF MULTICARDLOCK and 1 ELock Swing Handle, 2 Door Position Sensors	BEH-SMHE2S-S		
Sentry w/ 2 HF MULTICARDLOCKs, 2 Door Position Sensors	BEH-SMHMH2S-S		
Sentry w/ 1 KeypadLock and 1 Elock, 2 Door Position Sensors	BEH-SKE2S-S		
Sentry w/ 2 KeypadLock , 2 Door Position Sensors	BEH-SKK2S-S		
Sentry w/ 1 HF CodeLock and 1 Elock, 2 Door Position Sensors	BEH-SCHE2S-S		
Sentry w/ 2 HF CodeLocks, 2 Door Position Sensors	BEH-SCHCH2S-S		
Sentry w/ 1 HF/LF CodeLock and 1 Elock, 2 Door Position Sensors	BEH-SCHLE2S-S		
Sentry w/ 2 HF/LF CodeLocks, 2 Door Position Sensors	BEH-SCHLCHL2S-S		
Auxiliary Power Supply for Sentry	BEH-SAPS		
Software - Access Interface and Management			
DAS server/client package for connection up to 10 units, includes enrollment scanner	BEH-SW10		
DAS server/client package for connection up to 20 units, includes enrollment scanner	BEH-SW20		
DAS server/client package for connection to 50 units, includes enrollment scanner	BEH-SW50		
DAS server/client package for connection to 100 units, includes enrollment scanner	BEH-SW100		
DAS server/client package for connection to 250 units, includes enrollment scanner	BEH-SW250		

Note:

Includes door switch(es) and 14' of Cat 6 cables.



SECTION FOUR

Power Distribution & Climate Monitoring



Power Availability, Distribution, Allocation and Monitoring are Critical Data Center and Broadcast Studio Requirements

Belden in-cabinet mounted power distribution units (PDUs) and environmental monitors and sensors are designed from high-quality components to support all your mission-critical applications.

A key component of our data center ready solution (DCRS), Belden PDUs allow configuration of integrated and optimized hosting systems, including fiber/copper connectivity and cabling, cabinets, cable management and airflow management. They are designed to facilitate seamless integration into Belden racks and cabinets, and include multiple mounting options for maximized airflow and cable management in high-density servers or switch hosting applications. Paired with our extensive line of environmental monitors and sensors, which include alarm thresholds, reporting functionality and a built-in intuitive web interface for remote access, Belden has everything you need to precisely monitor, analyze and log key parameters, enabling you to identify current fluctuations and quickly troubleshoot potential problems.

*Lacing-PDU mounting panels (p. RC-67) are not included with the cabinets or the PDUs and need to be ordered separately. PDUs/panels uses toolless "button"-style mounting.

Precisely distribute, monitor, analyze and manage power distribution in your facility to **maximize processing capacity** and promote power efficiency.



Cabinet Power Distribution Units (PDUs)





Organized networking and power cable management for proper server airflow



Side-by-side PDU mounting using 7" wide PDU mounting panel (Part No. HVMP024501)



U-Lock Receptacles

Belden PDU Options and Features

- All Belden PDUs are UL and cUL listed 60650
- Select from a wide offering of PDUs designed to meet your specific power requirements; single phase, 3-phase (WYE and Delta configurations)

Power	Amp	Voltage	Phase	Plug
3.3kW	20A	250V	1 Phase	L6-20P or 2P, 3W
5kW	30A	250V	1 Phase	L6-30P or 2P, 3W
11kW	20A	230/400V	3 Phase WYE	L22-20P or 4P, 5W
16.6kW	30A	230/400V	3 Phase WYE	L22-30P or 4P, 5W
1.4kW	15A	125V	1 Phase	5-15P or L5-15P
1.9kW	20A	125V	1 Phase	5-20P or L5-20P
2.8kW	30A	125V	1 Phase	L5-30P
5.7kW	20A	120/208V	3 Phase WYE	L21-20P
8.6kW	30A	120/208V	3 Phase WYE	L21-30P
8.6kW	30A	250V	3 Phase Delta	L15-30P
17.2kW	60A	208V	3 Phase Delta	3P/4W
23kW	80A	208V	3 Phase Delta	Hard Wired
34kW	120A	208V	3 Phase Delta	Hard Wired

 U-Lock IEC C13 and C19 receptacles feature an integrated locking mechanism built within the receptacle housing. The locking mechanism is protected against vibration and external elements that can easily dislodge external locking clips or guides. This self-contained locking mechanism works with any standard IEC plug. Locking receptacles come standard on some units and are available for custom orders.

Cabinet Power Distribution Units (PDUs) (continued)

PDU Selection: Basic, with Local Monitoring and Intelligent

 PDU mounted display option for local current or power monitoring, making phase balancing easier (the PDU itself is not phase balancing)

Intelligent PDU Options and Features

- Remote aggregate, circuit or receptacle power monitoring for granular PUE measurement
- Switched (on/off) options allow remote outlet management and equipment reboot with sequential delay features; avoid power interruption due to in-rush current, equipment start up in desired sequence

Belden PDU Type

Power Outlet (O)

kWh and Power Factor.

Switched (S)

Basic (B)

Local (L)

Power (P)

Notes

Local Display/

Monitoring

No

Yes

Yes (2)

Yes (2)

Yes (2)

- Highly secure access with admin, control and view-only accounts
- Intuitive Ethernet-based firmware with email alarm or SNMP trap features prevents downtime with early notification of power threshold breaches
- SNMP (MIB) enabled for compatibility with all leading DCIM packages
- Integrated environmental monitoring capabilities; monitor temperature, airflow, humidity and dew point via optional connected sensors
- Internal memory for up to two week of trending of critical parameters for clear understanding of power allocation and usage

Power Outlet

Level (5)

No

No

No

Yes

Optional

Outlet

Switched (6)

No

No

No

No

Yes

Intelligent Remote Monitoring (3)

Environmental

Port (4)

No

No

Yes

Yes

Yes

(4) Remote IP-based environmental monitoring, (1) port per PDU. Requires external sensor, refer to accessories (p. RC-70) for selection.

(5) Remote IP-based receptacle level monitoring, Amps, Volts,

(6) Remote IP-based receptacle level switching (on/off) with

Power Circuit

Level

No

No

Yes

Yes

Yes

Watts, kWh.

configurable time delay.

Current

No

No

Yes

Yes

Yes





PDU Firmware, Trending Page



PDU Firmware, Alarm Setting Page



Intelligent PDU Communication and Environmental Monitoring Ports

Power, Cooling and Air-Handling Relations

 Local current/amp meter, monitoring at circuit level for multi-circuit PDU.

(2) Local power meter provides Amps, Volts, Watts, Volt-Amps,

(3) Remote functions (IP-based) accessible via web browser.

PDU Nameplate Current Rating (A)	Branch Circuit Rating (A)	Nameplate Volts (V)	Volts Actual Delivered (V)	Phase*	PDU Nominal Power Watts (W)	PDU De-Rated Power (W)	PDU De-Rated Power (kW)	PDU De-Rated Power (BTU/hr.)	AC Tons** (BTU/12000)	Air Volume*** (120 CFM* kW)
12	15	125	120	1	1,800	1,440	1.4	4,916	0.41	168
16	20	125	120	1	2,400	1,920	1.9	6,555		228
24	30	125	120	1	3,600	2,880	2.9	9,832	0.82	348
16	20	250	208	1	4,160	3,328	3.3	11,362	0.95	396
24	30	250	208	1	6,240	4,992	5.0	17,043	1.42	600
35	50	250	208	1	10,400	7,280	7.3	24,854	2.07	876
48	60	250	208	1	12,480	9,984	10.0	34,085	2.84	1,200
16	20	230	230	1	4,600	3,680	3.7	12,564	1.05	444
24	30	230	230	1	6,900	5,520	5.5	18,845	1.57	660
48	60	230	230	1	13,800	11,040	11.0	37,691	3.14	1,320
16	20	120/208	208	3	7,197	5,757	5.8	19,656	1.64	696
24	30	120/208	208	3	10,795	8,636	8.6	29,484	2.46	1,032
35	50	120/208	208	3	17,992	12,594	12.6	42,997	3.58	14,712
48	60	120/208	208	3	21,616	17,293	17.3	58,968	4.91	2,076
80	100	120/208	208	3	36,027	28,821	28.8	98,279	8.19	3,456
100	125	120/208	208	3	45,033	36,027	36.0	122,849	10.24	4,320
120	150	120/208	208	3	54,040	43,232	43.2	147,419	12.28	5,184
16	20	230/400	230	3	13,856	11,085	11.0	37,691	3.14	1,320
24	30	230/400	230	3	20,785	16,628	16.6	56,563	4.71	1,992
	*3-Phase powe	er is calculated by	y multiplying singl	e phase by the so	quare root of 3 or 1.	73.				
	**Tons of air co	onditioning requir	ed to remove hea	t from associated	l IT load.					
	***The volume	of air that is typic	cally required by the	ne IT equipment f	or each kW of IT lo	ad can typically ra	ange from 80 to 1	40 CFM, 120 CFM	vas used for calc	ulation.

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UL Listed Single-Phase PDUs

Type: B =	Basic;	L = Local	Monitored
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Belden Part #	Туре	De-Rated Power (kW)	Amps (A)/ Volts (V)	Plug Type	Total Receptacle	Receptacle Type/Qty	Thermal Circuit Breaker	On-Off Switch	Surge Supression	Monitoring- Local	Mounting (4)	Dimensions L x W x D (in.)
9BF1-061001	В	1.4	15/120	5-15P	6	5-15R/6	Yes	Yes	No	No	Rack - 19"	17 x 1.72 x 3.75
9BF1-061002	В	1.4	15/120	5-15P	6	5-15R/6	Yes	Yes	Yes	No	Rack - 19"	17 x 1.72 x 3.75
9BF1-081001	В	1.4	15/120	5-15P	8	5-15R/8	Yes	Yes	No	No	Vertical	24 x 1.61 x 1.61
9LF1-101001	L	1.4	15/120	5-15P	10	5-15R/10	Yes	Yes	No	Power	Rack - 19"	17 x 1.72 x 4.5
9BF1-141001	В	1.4	15/120	5-15P	14	5-15R/14	Yes	Yes	Yes	No	Vertical	47.5 x 1.61 x 1.61
9BG2-081001	В	1.9	20/120	L5-20P	8	5-20R/8	Yes	Yes	No	No	Vertical	24 x 1.61 x 1.61
9BG1-101001	В	1.9	20/120	5-20P	10	5-20R/10	Yes	Yes	Yes	No	Rack - 19"	17 x 1.72 x 3.75
9LG1-101001	L	1.9	20/120	5-20P	10	5-20R/10	Yes	No	No	Power	Rack - 19"	17 x 1.72 x 4.5
9BG1-141001	В	1.9	20/120	5-20P	14	5-20R/14	Yes	Yes	No	No	Vertical	47.5 x 1.61 x 1.61
9BG2-141001	В	1.9	20/120	L5-20P	14	5-20R/14	Yes	Yes	No	No	Vertical	47.5 x 1.6.1 x 1.61
9BG1-141002	В	1.9	20/120	5-20P	14	5-20R/14	Yes	No	Yes	No	Vertical	47.5 x 1.6.1 x 1.61
9BG2-141002	В	1.9	20/120	L5-20P	14	5-20R/14	Yes	No	Yes	No	Vertical	47.5 x 1.6.1 x 1.61
9PH2-241007	Р	1.9	30/120	L5-30P	24	5-20R/24	No	No	No	Power	Vertical	66.25 x 2 x 2
9PB2-101002	Р	5	30/208	L6-30P	10	C-13L/10	Magnetic	Breaker	No	Power	Rack - 19"	17 x 1.72 x 8.5
9PB2-361007	Р	5	30/208	L6-30P	36	C-13/30 + C-19/6	Magnetic	Breaker	No	Power	Vertical	66.25 x 2 x 2

9PH2-241007

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Notes:

(1) Standard cord exits from chassis face; top of chassis exit available on request.

(2) Standard PDU chassis color is black, custom color available on request.



UL Listed Single-Phase PDUs

Type: P = Remote Power Monitored; O = Outlet Monitored

Belden Part #	Туре	De-Rated Power (kW)		Plug Type	Total Receptacle	Receptacle Type/Qty	Thermal Circuit Breaker	On-Off Switch	Monitoring-Local/ Remote	Environmental Monitoring	Mounting (4)	Dimensions L x W x D (in.)
9PG1-101001	Р	1.9	20/120	5-20P	10	5-20R/10	No	No	Power/Aggregate	Yes - 1 Port	Rack - 19"	17 x 1.72 x 8.5
9PB2-361005	Р	5	30/208	L6-30P	36	C-13/30 + C-19/6	Magnetic	Breaker	Power/Circuit Breaker	Yes - 1 Port	Vertical	66.25 x 2 x 2
9PB2-361009	Р	5	30/208	L6-30P	36	C-13L/30 + C-19L/6	Magnetic	Breaker	Power/Circuit Breaker	Yes - 1 Port	Vertical	72 x 2 x 2
9PB2-421003	Р	5	30/208	L6-30P	42	C-13/36 + C-19/6	Magnetic	Breaker	Power/Circuit Breaker	Yes - 1 Port	Vertical	70 x 2 x 2
90B2-24 <mark>10</mark> 03	ο	5	30/208	L6-30P	24	C-13L/18 + C-19L/6	Magnetic	Breaker	Power/Circuit Breaker + Outlet	Yes - 1 Port	Vertical	66.25 x 2 x 2.6

90B2-241003

Notes:

(1) Standard cord exits from chassis face; top of chassis exit available on request.

(2) C-13L, L refers to receptacles with locking feature.

(3) Standard PDU chassis color is black, custom color available on request.

(4) These PDUs have no Surge Supression.

	ONAR	
S		
Faster. Easier. Better.

3-Phase Basic/Smart PDUs

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9PI2-421004

UPGRADE READY

9BL3-241002

UL Listed 3-Phase PDUs

Type: B = Basic; P = Power Monitored

De-Rated Amps (A) Input Volts (V)/ Plug Total Receptacle Circuit Breaker Monitoring-Dimensions Belden Part # Mounting Type Power (kW) x Phases Output Volts (V) Type/Qty(s) Local/Remote L x W x D (in.) Туре Receptacl (Amp/Qty) 72 x 2 x 2 9PI2-421004 Ρ 120/208 WYE/208 L21-20F 42 C-13L/36 + C-19L/6 20 x 3 Ph No Amp (X,Y,Z)/No Vertical 5.7 Dog House - No 72 x 2 x 2 9PJ2-421003 Ρ 8.6 30 x 3 Ph 120/208 WYE/208 L21-30P 42 C-13/36 + C-19/6 20/3D Amp (X,Y,Z)/No Vertical Dog House - No C-13/24 + C-19/3 + 66.25 x 2 x 2 9BJ2-331001 В 8.6 30 x 3 Ph 120/208 WYE/120 & 208 L21-30P 33 20/3D Amp (X,Y,Z)/No Vertical Dog House - No 5-20B/6 66.25 x 2 x 2 9PC2-301001 Ρ 11 20 x 3 Ph 230/400 WYE/230 L22-20P 30 C-13L/24 + C-19L/6 No Amp (X,Y,Z)/No Vertical Dog House - No 72 x 2 x 2.25 Р 9PD2-301002 30 x 3 Ph 230/400 WYE/230 122-30P 30 C-13I /24 + C-19I /6 20/6D Amp (X,Y,Z)/No Vertical Dog House - No 72 x 2 x 2.25 9PD3-301001 Р 30 x 3 Ph 230/400 WYE/230 4P, 5W 30 C-13I /24 + C-19I /6 20/6D Amp (X,Y,7)/No Vertical Dog House - No 72 x 2.25 x 3.44 3P, 4W 9BL3-241002 В 60 x 3 Ph 208 Delta/208 24 C-13L/12 + C-19L/12 20/6 Breaker/No Vertical Dog House - No

Notes:

(1) Standard cord exits from chassis face; top of chassis exit available on request

(2) C-13L, L refers to receptacles with locking feature.

(3) Ex: 20/3D, D refers to double pole breakers (20A in this case).

(4) Standard PDU chassis color is black, custom color available on request

(5) These PDUs have no Surge Supression or On/Off Switch.

(6) PDU "Dog House" hosts the circuit breaker and protrude from the PDU chassis by 1.44".



90J2-241005

UL Listed 3-Phase PDUs

Type: P = Power Monitored; O = Outlet Monitored

Belden Part #	Туре	De-Rated Power (kW)	Amps (A) x Phases		Plug Type	Total Receptacle	Receptacle Type/Qty(s)	Circuit Breaker (Amp/Qty) (4)	Monitoring- Local/Remote	Environ. Monitoring	Dimensions L x W x D (in.)
9PJ2-42 <mark>10</mark> 01	Р	8.6	30 x 3 Ph.	120/208 WYE/208	L21-30P	42	C-13/36 + C-19/6	20/3D	Current/Current	No	72 x 2 x 2 Dog House - No
90J2-24 <mark>10</mark> 05	ο	8.6	30 x 3 Ph.	120/208 WYE/208	L21-30P	24	C-13L/18 + C-19L/6	20/3D	Power/X, Y, Z + Outlet	Yes - 1 Port	66.25 x 2 x 2 Dog House - No
90C2-36 <mark>10</mark> 01	ο	11	20 x 3 Ph.	230/400 WYE/230	L22-20P	36	C-13L/30 + C-19L/6	No	Power/X, Y, Z + Outlet	Yes - 1 Port	66.25 x 2 x 2.6 Dog House - No
90D3-36 <mark>10</mark> 01	ο	16.6	30 x 3 Ph.	230/400 WYE/230	4P, 5W	36	C-13L/30 + C-19L/6	20/6	Power/X, Y, Z + Outlet	Yes - 1 Port	72 x 2 x 2.6 Dog House - Yes
9PL3-24 <mark>10</mark> 06	Р	17.3	60 x 3 Ph.	208 Delta/208	4P, 4W	24	C-13L/12 + C-19L/12	20/6D	Power/X, Y, Z	Yes - 1 Port	72 x 2.25 x 3.44 Dog House - No

Notes:

(1) Standard cord exits from chassis face; top of chassis exit available on request

(2) C-13L, L refers to receptacles with locking feature.

(3) Ex: 20/3D, D refers to double pole breakers (20A in this case).

(4) Standard PDU chassis color is black, custom color available on request

(5) These PDUs have no Surge Supression or On/Off Switch.

(6) PDU "Dog House" hosts the circuit breaker and protrude from the PDU chassis by 1.44".

(7) All these 3-Phase PDUs are vertically mounted.





Single- and 3-Phase Switched PDUs

Front View 9SO5-080001

Rear View 9SO5-080001

UL Listed Single- and 3-Phase PDUs

Type: S = Remotely Switched

Belden Part #	Туре	De-Rated Power (kW)	Amps (A) x Phases	Input Volts (V)/ Output Volts (V)	Plug Type	Total Receptacle		Circuit Breaker (Amp/Qty) (4)	Monitoring-Local/ Remote	Mounting (5)	Dimensions L x W x D (in.)
9SG1-08 <mark>10</mark> 01	s	1.9	20	120/120	5-20P	8	5-20R/8	No	Power/Agg Power	Rack - 19"	17 x 1.72 x 8.5 Dog House - No
9SO5-08 <mark>00</mark> 01	s	1.9 or 3.3	20	120 or 208/120 or 208	C-20	8	C-13L/8	No	Power/Agg + Outlet	Rack - 19"	17 x 1.72 x 8.5 Dog House - No
9SB2-241007	s	5	30	208/208	L6-30P	24	C-13L/18 + C-19L/6	20/2D	Power/Agg, Circuit, Outlet	Vertical	66.25 x 2 x 2.6 Dog House - No
9SJ2-24 <mark>10</mark> 07	s	8.6	30 x 3 Ph.	120/208 WYE/208	L21-30P	24	C-13L/18 + C-19L/6	20/3D	Power/Agg, Circuit	Vertical	66.25 x 2 x 2.6 Dog House - No
9SJ2-24 <mark>10</mark> 10	s	8.6	30 x 3 Ph.	120/208 WYE/208	L21-30P	24	C-13L/18 + C-19L/6	20/3D	Power/Agg, Circuit, Outlet	Vertical	66.25 x 2 x 2.6 Dog House - No
9SD2-361001	s	16.6	30 x 3 Ph.	230/400 WYE/230	L22-30P	36	C-13L/24 + C-19L/12	20/6	Power/Agg, Circuit	Vertical	72 x 2 x 2.6 Dog House - No
9SD2-361002	s	16.6	30 x 3 Ph.	230/400 WYE/230	L22-30P	36	C-13L/24 + C-19L/12	20/6	Power/Agg, Circuit, Outlet	Vertical	72 x 2 x 2.6 Dog House - No
9SL3-361001	s	17.2	60 x 3 Ph.	208 Delta/208	3P, 4W	36	C-13L/24 + C-19L/12	20/6D	Power/Agg, Circuit	Vertical	66.25 x 3.7 x 2.6 Dog House - No
9SL3-24 <mark>10</mark> 06	s	17.2	60 x 3 Ph.	208 Delta/208	3P, 4W	24	C-13L/12 + C-19L/12	20/6D	Power/Agg, Circuit, Outlet	Vertical	60 x 2.25 x 2.6 Dog House - No

9SJ2-241010

Notes:

(1) Standard cord exits from chassis face; top of chassis exit available on request.

(2) C-13L, L refers to receptacles with locking feature. (3) Ex: 20/3D, D refers to double pole breakers (20A in this case). (4) Standard PDU chassis color is black, custom color available on request.

(5) These PDUs have no On/Off Switch or Surge Supression.

(6) PDU "Dog House" hosts the circuit breaker and protrude from the PDU chassis by 1.44".

(7) All these Single- and 3-Phase PDUs have a Switched Outlet and a 1-port Environmental Monitor.

Faster. Easier. Better.



PDU Accessories - Mounting, Cord Management and Cord Set

Description	Belden Part Number
Tool-Less PDU Mounting Panel (for XHM and XHS Style Cabinets)	
Lacing-PDU Mounting Panel, 3.5"W, 42RU, Black	HVMP014201
Lacing-PDU Mounting Panel, 3.5"W, 45RU, Black	HVMP014501
Lacing-PDU Mounting Panel, 3.5"W, 48RU, Black	HVMP014801
Lacing-PDU Mounting Panel, 7"W, 42RU, Black	HVMP024201
Lacing-PDU Mounting Panel, 7"W, 45RU, Black	HVMP024501
Lacing-PDU Mounting Panel, 7"W, 48RU, Black	HVMP024801
Lacing-PDU Mounting Panel, 3.5"W, 42RU, White	HVMP014202
Lacing-PDU Mounting Panel, 3.5"W, 45RU, White	HVMP014502
Lacing-PDU Mounting Panel, 3.5"W, 48RU, White	HVMP014802
Lacing-PDU Mounting Panel, 7"W, 42RU, White	HVMP024202
Lacing-PDU Mounting Panel, 7"W, 45RU, White	HVMP024502
Lacing-PDU Mounting Panel, 7"W, 48RU, White	HVMP024802
Power Cord Management	
Cable Management Ring Plastic ($Qty = 5$) 3" x 1.5" Reversible	XMR01
Cable Management Ring Kit (Qty = 5) 2.5"W x 3"D	XMR03
Slack Management Spool Kit (includes 2 spools)	BHSP020
Quick Mount Base (Qty=10) with Fastener, for 1/4" Holes	ХСТМ
Velcro Cable Ties, 25 per Roll, 8" L x 0.5"W	AX100783
Velcro Cable Ties, 25 per Roll, 12" L x 0.5"W	AX100784
Cord Set (C13/C19, C19/C20 - UL - cUL Listed)	
C13 to C14 Non-Locking Cord Set - Y" Long — Black	CSC13C14yyBK
C13 to C14 Non-Locking - 36" Long — Black	CSC13C1436BK
C13 to C14 Non-Locking - 48" Long — Black	CSC13C1448BK
C19 to C20 Non-Locking Cord Set - Y" Long — Black	CSC19C20yyBK
C19 to C20 Non-Locking - 36" Long — Black	CSC19C2036BK
C19 to C20 Non-Locking - 48" Long — Black	CSC19C2048BK







7" Lacing-PDU mounting panel

(Plastic)

3.5" Lacing-PDU mounting panel

Cable Management Ring



Quick Mount Base

Notes: $yy = 12, 24, 36 \dots 96 = cord length 12 to 96 inches; 12 inch increments.$

BELDEN

PDU Configuration Guide

Please select the desired configuration and specifications and submit to Belden.

Power Availability

Quantity Required

First Unit Required by Date

Electrical Configuration

Power	nput		
Quantity**	Plug Type	Input AMPS	Input VOLTS
	5-15P	15	125
	L5-15P	15	125
	5-20P	20	125
	L5-20P	20	125
	6-20P	20	250
	L6-20P	20	250
	L14-20P	20	125/250
	L21-20P	20 x 3~	120/208 WYE
	L5-30P	30	125
	L6-30P	30	250
	L14-30P	30	125/250
	L15-30P	30 x 3~	250 Delta
	L21-30P	30 x 3~	120/208 WYE
	IEC C-20 Inlet (No Cord)	20/16*	125 or 250
	IEC Pin & Sleeve 2 Pole/3 Wire	20/16*	250/230*
	IEC Pin & Sleeve 3 Pole/4 Wire	20	250 3~
	IEC Pin & Sleeve 2 Pole/3 Wire	30/32*	250/230*
	IEC Pin & Sleeve 3 Pole/4 Wire	30	250 3~
	IEC Pin & Sleeve 2 Pole/3 Wire	60/63*	250/230*
	IEC Pin & Sleeve 3 Pole/4 Wire	60	250 3~
	Cord Length		

Target Price Comparable Competitive Unit Brand/ ____ Model#

Phone___

Power Input								
Quantity	Receptacle Type	AMPS	VOLTS					
	5-15R Duplex	15	125					
	5-15R Individual	15	125					
	L5-15R Duplex	15	125					
	5-20R Duplex	20	125					
	5-20R Individual	20	125					
	L5-20R	20	125					
	6-20R Duplex	20	250					
	L6-20R	20	250					
	L5-30R	30	125					
	L6-30R	30	250					
	IEC C-13	15/10*	125 or 250					
	IEC C-19	20/16*	125 or 250					
	Other	- Please Specify						

	Othor	r icuse opeoily						
Physical Configuration								
Dime	ensional Limits	Mounting C	Drientation					
	Length		Horizontal					
	Width		Vertical					
	Height							

Hardwi	Hardwire Options								
Quantity**									
	6" Wire Tails with Removable Plate								
	Flexible Conduit								
	Terminal Block								

Additional Information

E-mail

Project Timelin<u>e</u>

Power	Switch	Surge	Supressior
	No		No
	Yes		Yes
	Yes - with Cover		
Monito	ring		
(Current Local	Curre	ent Remote
	No		No
	Yes -		Yes -
	Current (Amps) Only		Circuit Level
	Yes - Scrolling Display (Volts, Amps, Watts, Power Factor)		Yes - Outlet Level
E	Invironmental	Remo	te Switching
	No		No
	Yes		Yes
Circuit	Breakers	Isolate	d Ground
	No (required by NEC in some units)		No
	Yes		Yes
3rd Pa	ty Testing - Com	pliance	
	UL® Listed		UR - UL® Recognized
	FCC Part 15 Class A		CE®
	None Required		Other - Please Specify

Notes:

*Rating for CE Products

**Quantity = # of Circuits



Plug and Receptacle Configuration Chart

NEMA Plugs and Receptacles

AMP	VOLTS	Straight-Blade Plug	Straight-Blade Receptac	e AMP	VOLTS	Straight-Blade Plug	Straight-Blade Receptacle
15	125	5-15P	5-15R) 20	250	6-20P	6-20R
20	125	5-20P	5-20R)			
AMP	VOLTS	Twist-Lock Plug	Twist-Lock Receptacle	AMP	VOLTS	Twist-Lock Plug	Twist-Lock Receptacle
15	125	L5-15P	L5-15R) 20	120/208 x 3~ WYE	L21-20P	L21-20R
20	125	L5-20P	L5-20R (7)) 20	230/400 x 3~ WYE	L22-20P	L22-20R
30	125	L5-30P	L5-30R) 30	120/208 x 3~ WYE	L21-30P	L21-30R
20	250	L6-20P	L6-20R (?)) 30	230/400 x 3~ WYE	L22-30P	L22-30R
30	250	L6-30P	L6-30R) 30	250 x 3~ Delta	L15-30P	L15-30R
20	125/250	L14-20P	L14-20R) амр	VOLTS	Califor	nia Style
30	125/250	L14-30P	L14-30R) 50	250 x 3~ Delta	3P, 4W	3P, 4W

IEC Plugs and Receptacles

AMP	VOLTS	Power Inlet	Power Recepta	cle	AMP	VOLTS	Power Inle	ət	Power Recept	ptacle
15/10*	125 or 250	C-14	C-13		20/16*	125 or 250	C-20		C-19	
AMP	VOLTS	Pin 8	Sleeve		AMP	VOLTS		Pin & S	Sleeve	
20/16*	250/230*	2P, 3W	2P, 3W		60/63*	250/230*	2P, 3W		2P, 3W	
20	250	3P, 4W	3P, 4W		60	250	3P, 4W	\bigcirc	3P, 4W	
30/32*	250/230	2P, 3W	2P, 3W		20/16*	230/400* x 3~ WYE	4P, 5W		4P, 5W	
30	250	3P, 4W	3P, 4W		30/32*	230/400* x 3~ WYE	4P, 5W		4P, 5W	

*Rating for CE Products

What is 3-Phase Delta?





A 3-Phase Delta is a 4-wire configuration consisting of 3-Phase conductors (X, Y and Z) and a Ground. Without the neutral present, only phase-to-phase wiring is possible. The potential between any 2-Phase conductors is typically 208V.

What is 3-Phase WYE?



A 3-Phase Delta 120/208V WYE is a 5-wire configuration consisting of 3-Phase conductors (X, Y and Z), Neutral and Ground. The potential between any 2-Phase conductors is 208V. The potential between any phase and neutral is 120V. This configuration can be wired to provide 120V, 208V or a combination of both voltages within one PDU.







ReelTuff™ Packaging



Strong and ruggedized to provide superior resistance to the crushing, puncturing, tearing and water exposure experienced during shipping and handling.

Lighter and easier to carry than boxes with wooden reels, with tear-resistant, easy-toaccess, reinforced handles.



Easy-to-read labels, descending length marking and the ability to pull multiple cables vertically through stacked boxes make installation faster and easier!



EN.

www.belden.com/reeltuff



Warranty and Shipping Policy

Warranty

Limited Warranty

Belden warrants that, for a period of one (1) year following the date of delivery to the original customer, the products it offers for sale in the catalog are free from defects in material and workmanship. The foregoing warranty is subject to the terms, limitations and conditions set forth below.

Liability

Belden's sole liability under this warranty will be to repair or replace, at its discretion, products that do not meet the specifications and descriptions provided in the catalog or purchase order due to defects in material and workmanship. Under no circumstances shall Belden be liable for any consequential or special damages for breach of this warranty. Belden's total liability under this warranty shall be limited to the price actually paid by the customer for the product(s) covered. Except as specifically set forth above, Belden expressly disclaims any other representation or warranties of any kind, expressed or implied, arising by law or custom, with respect to products set forth in the catalog or otherwise sold by Belden, including without limitation, warranties or merchantability, fitness for a particular purpose, non-infringement or any other matter.

Conditions of Warranty

This warranty applies only to standard products set

forth in the catalog. Custom products are covered by warranties stated in the Terms and Conditions of Belden's quotation at the time of the order.

Repairs or Adjustments

Belden, at its discretion, will make any repairs or adjustments to any products that are due to defects and/or workmanship. This warranty does not extend to any items that upon inspection by Belden are deemed to have been misused, neglected, improperly treated, improperly installed, or used in violation of instructions or specifications approved by Belden, or otherwise handled, installed, shipped or used in violation of industry standards for metal fabrication and solid state electronic equipment.

Powerstrip Warranty

If a BELDEN power strip product becomes defective during the warranty period listed below, BELDEN will elect to either repair or replace the unit free of charge.

Basic Power Strips - Five Years

Metered, Monitored and Managed Power Strips – Five Years

Environmental Monitoring Units – Five Years

This warranty does not include damage to the product resulting from accident or misuse, including exposure to water or any other corrosive material. This warranty excludes damage to equipment if surge or spike reaches that equipment through an unprotected source connected to it (i.e., printer, modem, phone line, etc.). It shall not apply to any product, which has been connected, installed, used or otherwise adjusted other than in accordance with written instructions furnished by BELDEN.

WARRANTY WILL BE VOIDED IF THE UNITS ARE OPENED, MODIFIED OR ALTERED DURING THE WARRANTY PERIOD.

Containment and Cooling Warranty

BELDEN warrants Containment and Cooling products for a period of one (1) year following the date of delivery. If the BELDEN product becomes defective during the one (1) year warranty period, BELDEN will elect to either repair or replace the unit free of charge. This warranty does not include damage to the product resulting from accident or misuse, including exposure to water or any other corrosive material.

WARRANTY WILL BE VOIDED IF THE UNITS ARE OPENED, MODIFIED OR ALTERED DURING THE WARRANTY PERIOD.

Shipping Policy

Freight Handling Charges

Third-Party Billing – Customer will specify carrier. Freight will be third-party billed other than to Belden or the customer.

The customer will supply a third-party account number or third-party billing address.

Freight Collect – Customer to specify carrier. Either a freight account number is provided or freight charges will be paid at destination upon delivery.

Prepaid and Add – Belden will specify carrier which has contractual agreements with select carriers.

All freight charges that appear on initial product invoice will be paid by the customer, and will not require any additional freight documentation. Belden's billing cycle will only indicate on the invoice a freight charge from dock to dock. Any accessorial charges (e.g., lift gate, union driver) will be billed on an additional invoice other than the initial billing that will show the accessorial charges.

Shipping Policy

Belden will provide estimated freight charges and will not be liable for charges due to problems that may occur in transit or upon delivery or not known at the time of the initial quote (accessorial charges). All shipments leaving Belden are FOB origin.

Inside Delivery – A carrier driver will make an inside delivery if an adequate loading dock is available to roll off freight to a trailer level dock. The driver will be equipped to move the freight via hand truck or pallet jack and must be able to get to the inside destination without any problem of obstacles that would cause delays. The customer must supply a freight elevator if delivery requires it. This action may result in additional freight charges.

Lift Gate Service – Usually a lift gate is needed when a loading dock is not available. The freight is lowered to ground level and delivered to the customer's door "only." Not all trailers are equipped with a lift gate and most carrier terminals have a limited number of lift gate trailers. This may cause a delay in shipment. This procedure may require an additional fee.

Notification – To coordinate delivery between the customer and the carrier, the customer must supply a phone number and contact person. This procedure may require an additional fee.

Re-Consignment – Once freight has left the Belden dock, the delivery destination address will be scheduled in the carrier dispatch system. A change of destination address is possible, depending upon the timing of delivery. This action may result in additional freight charges.

Redelivery – When a delivery is refused by a customer for any reason, other than the fault of the carrier, the freight will be returned to the carrier's dock. A redelivery charge will apply.

Damages

All damages must be reported to Belden within three (3) working days upon delivery. Failure to report any damages will release Belden from any and all claims. It is the responsibility of the





customer's receiving personnel to check all shipping cartons for discrepancies (e.g., dents, punctures). All discrepancies to the shipping container should be noted on the carrier's paperwork and documented. If, after opening the container, it is found that there is damage to the product, the carton is to be examined to determine that the damage was due to shipping. Failure to examine cartons at delivery, and signing the carrier's paperwork, releases the carrier and Belden from any and all freight claims.

Third-party billing customers will handle any and all freight claim damage with the carrier and are responsible for all freight charges.

Packaging

BELDEN cabinets are packaged in cardboard protective corner posts and protective plastic cover. The cabinets are then secured to a skid by banding prior to shipment.

Less than truck load shipments (LTL) might

require additional packaging due to multiple handling locations. Belden provides full protective packaging (i.e. 3" honeycomb cardboard corner posts, honeycomb top cardboard cover, cardboard wrap, shockwatch drop spot indicator) for an additional fee to accommodate LTL shipments with special needs. Please contact your customer service or sales rep to discuss the packaging options.

Return Policy for Repair, Replacement, Modification or Credit

Prior approval must be obtained for any products being returned. Upon approval an RMA number will be assigned to the items being returned. This RMA number MUST appear on all shipping documents and on the outside of each carton. Failure to include the RMA number on the carton will result in the refusal of delivery and return to the customer, freight collect.

All products returned for reasons other than repair or replacement are subject to a 15% restocking fee and must be shipped prepaid. In addition to the 15% restocking fee, the customer is responsible for properly packaging and returning the product in reusable condition. If not, additional charges may be added to the restocking fee. If a customer holds a product for more than ten (10) days, a return for credit will be voided.

Any or all special customized products can only be returned for modifications or repair of damages.

All products being returned shall be prepaid (unless they are being returned due to defect or damage), packaged in good condition and shipped to:

Belden 2001 North Main Street Washington, PA 15301

Belden Rack and Cabinet Manufacturing

State-of-the-Art Manufacturing and Assembly Operation

Lean Manufacturing

Belden's lean manufacturing philosophy is exemplified in its manufacturing plant, where infrastructure solutions, including racks, cabinets, heat containment

and rack power distribution units, are produced. The plant is structured for cell-based manufacturing, where automated machines, such as the CNC punch press, CNC laser-punch combination machine and CNC CO. lasers.



work seamlessly with semi-automated metal-bending machines and assembly operations.

Packaging and Shipping

In order to provide our customers with high-performance

cabinet systems and justin-time delivery, the factory process flow is based on a value stream map, with raw materials received at a receiving dock (close to fabricating cells) and finished goods shipped from a shipping dock (close to the



packaging cell). All cabinets are shipped with unique serial number tags, enabling full traceability.

Environmentally Friendly Powder Coating

Belden's powder-coating process involves industry leading five-stage wash and pre-treatment steps,

ensuring a lasting and durable finish. Each cabinet is baked in compliance with ASTM standards to prevent paint from scaling or chipping, thus ensuring rust-proof cabinets. The entire process is environmentally friendly, with complete conformance to both state

and federal "Clean Air Act" guidelines.

Quality Inspection

The cell-based assembly process includes stringent

quality checks at each location within the cell, which are tracked in an ssembly check list by each associate assembling a cabinet system. Throughout this manufacturing process, the external quality, measured in defects per

million, is less than 100. Lean daily management (LDM) and continuous improvement processes drive manufacturing and design philosophy at Belden to



ensure each customer's quality and delivery expectations are met in a safety conscious work environment.

Fabrication

Precision CO₂ lasers with automated loading and unloading capabilities are at the heart of our sheet metal fabrication cell, with defect-free laser cutting at speeds up to 400 inches per minute. The parts are then sent through a continuous flow of metal forming, robotic welding, powder coating and assembly cells.



Our modern manufacturing and assembly facility

ensures that customers receive the quality products they've come to expect.

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