

NP 247

### High-density Racking System

The new Belden® High-density Racking System gives you more real estate plus it restores manageability to your cabling. Moves, adds and changes are truly easy, saving you time and money.



### Introducing Belden's Modular, High-density Racking System

With the recent introduction of its new High-density Racking System, Belden now offers a full range of premier, high-reliability products for networking environments – from telecom closets to world class data centers. Our fully-integrated family of networking products reliably deliver the bandwidth you need and help you make the best use of valuable real estate.

The trend in industry today is for cables and connectivity-related products to get smaller and increasingly dense. But when engineers add more equipment, they can easily lose network manageability. It's clear that with increased density also comes the need to manage it. And, high-density connectivity is Belden's specialty.

Belden's racking system will make moves, additions, upgrades and changes to your networks easy, saving you time, money and stress – it's a well-engineered platform that offers you a high level of versatility and flexibility in systems design.

### System Components

- **54 new racking system components and accessories:** These new items are completely compatible with the cable management items we already offer.
- **Four vertical manager styles:** Each manager is easily modifiable into different configurations, including single-sided high density, double-sided high density, single-sided low density and double-sided high-and-low density. Vertical managers come in four widths: 3<sup>5</sup>/<sub>8</sub> in., 6 in., 10 in., and 12 in., all at the standard industry height of 84 in. An open back design permits unrestricted routing of cables from front-to-rear or rear-to-front of the rack.
- **Two symmetrical manager half doors:** These actually comprise one full-length door that covers the cabling in a vertical manager while allowing easy cable access. Snap-on hinge permits the door to open both ways, left to right or right to left. If desired, the door can be fully removed.
- **Retention gates:** These components keep cables from popping out of place when doors are opened or removed. Like the doors, gates are double-hinged so you can open them either way. Gates can be repositioned or removed as needed. And if you order an optional gate kit, you can configure your managers to the number of gates desired.

Belden's racking system will make moves, additions, upgrades and changes to your networks easy – saving you time, money and stress.

- **Horizontal cable managers:** Available in two widths and three heights (1U, 2U, and 3U). Equipped with a double-hinged cover that enhances the look of your installation.
- **Cable-retainer bar:** Attachable in accessory mounting holes, this item can segregate vertical cables by creating a convenient cable channel sub-section.
- **Additional gates and fingers:** Readily available, if desired.
- **Optional back cover:** Vertical managers permit the attachment of a back cover on which you can attach a cable spool or cable bundle fasteners.

#### System Features

- **High level of modularity:** This hallmark feature of Belden's racking systems is enabled by ease of removal or movement of components, as well as by the wide selection of components we offer you. The completely interchangeable cable retention gates, doors, fingers and accessories in our new systems allow you to adapt them to your own specific needs.
- **Vertical manager part sets:** Each vertical manager configuration includes a complete set of necessary basic 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. For high density, these come in handy 11U high sections and screw into a vertical manager. Unlike analogous items in the marketplace that come as part of a complete molded plastic strip running the full height of a manager, Belden's finger sections can be conveniently taken out during reconfigurations. Even in the field it will be easy to reconfigure them. A typical change might entail taking out a section of high-density fingers and replacing it with a more widely-spaced one. Also, if you break an individual finger, it's easy to replace its

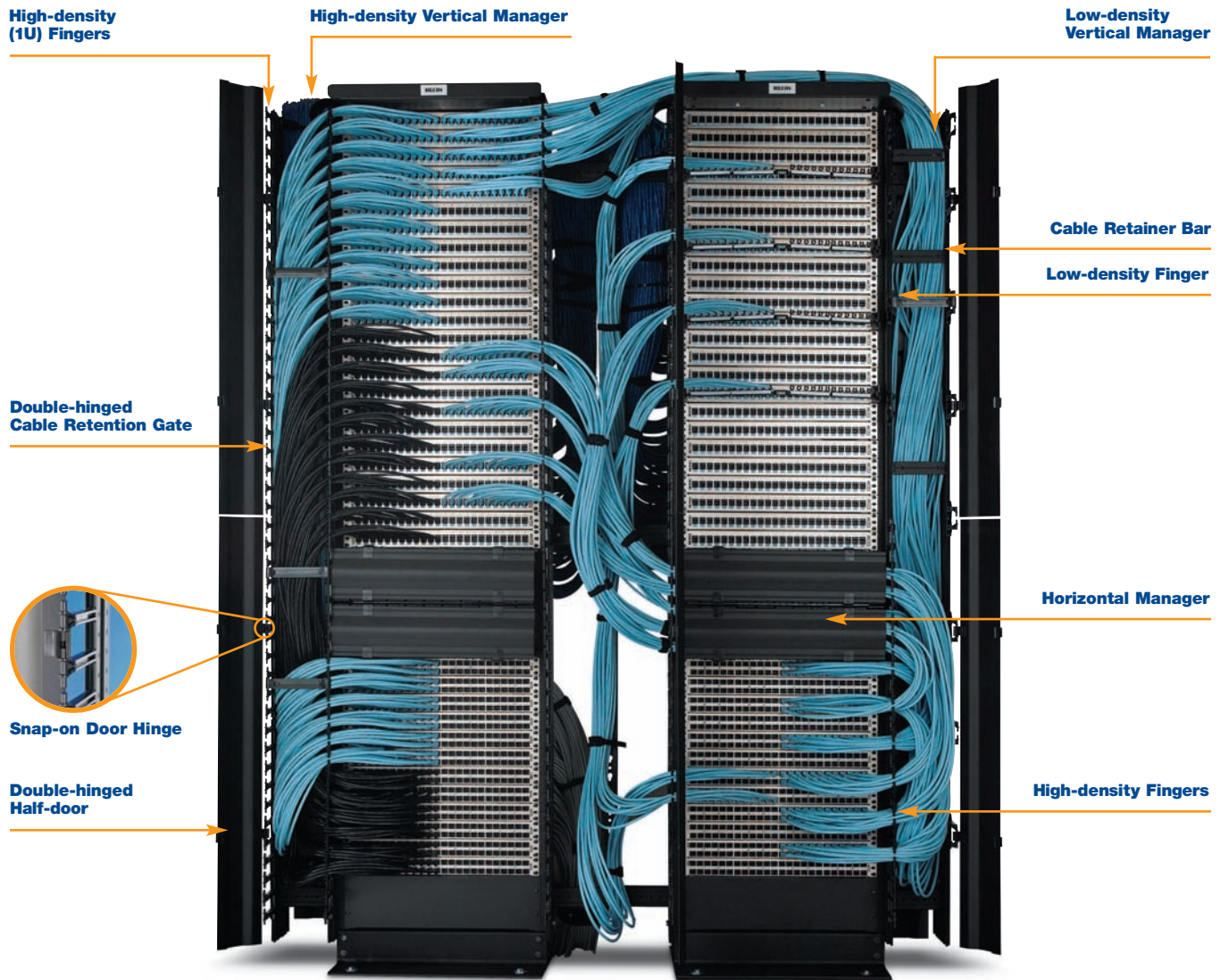
module. On the high-density manager, the fingers are aligned with the rack units, allowing for patch cords to be routed directly to the vertical manager. This eliminates the need to use a horizontal manager, a great space saver.

- **System scalability:** The new Belden system is very easily reconfigured and modified to handle future system growth, add-ons, or changes.
- **Compatibility of vertical managers:** They are compatible with any EIA-310-D-compliant 2- and 4-post racks.
- **Mixed media application:** Belden's new racking system is designed to handle both copper and fiber structured cable networks.
- **Quarter-inch diameter accessory mounting holes:** These are present the entire length of each vertical manager to permit easy attachment of accessories – e.g., cable bundle fasteners.
- **Any-point-to-any-point routing capability:** It's easy to route your cable from a given patch panel to another panel within the same rack, to the back of the rack, or to an adjacent rack, while still maintaining the proper cable bend radius.
- **Easy installation:** You're done in just minutes using only standard hand tools. What's more, reconfiguration and modification of the system in the field after initial installation will be a snap.
- **Great aesthetics:** The professional look of Belden's sturdy new rack system, with its highly esthetic flat-black finish, is suitable for display in any world class telecom environment. You'll be proud to show off your investment.

You've come to expect a great line of cable management products from Belden, and that's what we've delivered here. Belden is the brand you can trust, the name that's synonymous with high quality, innovative products you can rely on.



## Belden® High Density Racking System



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Description	Belden Part Number
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### Relay Racks

Aluminum relay rack, 19" WX84" H, #12-24 tapped hole, Black, Knock Down	<b>BHRR194</b>
Aluminum relay rack, 23" WX84" H, #12-24 tapped hole, Black, Knock Down	<b>BHRR234</b>
Steel relay rack, 19" WX84" H, #12-24 tapped hole, Black, Knock Down	<b>XDR8419-312</b>
Steel relay rack, 19" WX84" H, #10-32 tapped hole, Black, Knock Down	<b>XDR8419-310</b>
Steel relay rack, 19" WX84" H, #12-24 tapped hole, Black, Welded	<b>XDR8419-312W</b>
Steel relay rack, 19" WX84" H, #10-32 tapped hole, Black, Welded	<b>XDR8419-310W</b>

### Single-sided High-density Vertical Manager

Includes (1) Slack management spool kit with 10" and 12" managers, (2) 1/2 door sections, (3) gates, (25) fasteners, (6) strap mounts, (2) retainer bars and mounting hardware

High-density with doors, 3-5/8" WX84" H, Black	<b>BHVH003</b>
High-density with doors, 6" WX84" H, Black	<b>BHVH006</b>
High-density with doors, 10" WX84" H, Black	<b>BHVH010</b>
High-density with doors, 12" WX84" H, Black	<b>BHVH012</b>

### Single-sided Low-density Vertical Manager

Includes (1) vertical manager, (6) strap mounts, (8) gates, (25) fasteners, (2) retainer bars and mounting hardware *Note: Door not included on low-density manager*

Low-density without doors, 3-5/8" WX84" H, Black	<b>BHVL003</b>
Low-density without doors, 6" WX84" H, Black	<b>BHVL006</b>
Low-density without doors, 10" WX84" H, Black	<b>BHVL010</b>
Low-density without doors, 12" WX84" H, Black	<b>BHVL012</b>

### Double-sided High-density Vertical Manager

Includes (2) Slack management spool kits with 10" and 12" double-sided managers, (4) 1/2 door sections, (6) gates, (50) fasteners, (12) strap mounts, (4) retainer bars and mounting hardware

High-density with doors, 3-5/8" WX84" H, Black	<b>BHVHH03</b>
High-density with doors, 6" WX84" H, Black	<b>BHVHH06</b>
High-density with doors, 10" WX84" H, Black	<b>BHVHH10</b>
High-density with doors, 12" WX84" H, Black	<b>BHVHH12</b>

### High/Low-density Vertical Manager

Includes (1) Slack management spool kit with 10" and 12" managers, (2) vertical managers, (2) 1/2 door sections, (11) gates, (50) fasteners, (12) strap mounts, (4) retainer bars and mounting hardware

High/low-density combination with front doors, 3-5/8" WX84" H, Black	<b>BHVHL03</b>
High/low-density combination with front doors, 6" WX84" H, Black	<b>BHVHL06</b>
High/low-density combination with front doors, 10" WX84" H, Black	<b>BHVHL10</b>
High/low-density combination with front doors, 12" WX84" H, Black	<b>BHVHL12</b>

Description	Belden Part Number
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### Vertical Manager Backcover

3-5/8" W, Black	<b>BHBC03X</b>
6" W, Black	<b>BHBC06X</b>
10" W, Black	<b>BHBC10X</b>
12" W, Black	<b>BHBC12X</b>

### Vertical Manager Doors (1 Pair)

3-5/8" W, Black	<b>BHDK03X</b>
6" W, Black	<b>BHDK06X</b>
10" W, Black	<b>BHDK10X</b>
12" W, Black	<b>BHDK12X</b>

### Horizontal Manager with Cover

19" WX1U, Black	<b>BHH191U</b>
19" WX2U, Black	<b>BHH192U</b>
19" WX3U, Black	<b>BHH193U</b>
23" WX1U, Black	<b>BHH231U</b>
23" WX2U, Black	<b>BHH232U</b>
23" WX3U, Black	<b>BHH233U</b>

### Transition Channel

Top transition channel, 19" WX6" D, Black	<b>BHTT196</b>
Lower transition channel, 19" WX6" D, Black	<b>BHTL196</b>
Lower transition channel double, 19" WX6" D, Black	<b>BHTD196</b>
Transition tray (rack to rack)	<b>BHTR196</b>
Top transition channel, 23" WX6" D, Black	<b>BHTT236</b>
Lower transition channel, 23" WX6" D, Black	<b>BHTL236</b>
Lower transition channel double, 23" WX6" D, Black	<b>BHTD236</b>

### Accessories

Additional accessories (filler panels, patch cords organizers, nylon and Velcro ties) can be found in Belden's Cable Management catalog (p. 43-47).

Slack management spool kit, Black	<b>BHSK020</b>
Slack management spools (2), Black	<b>BHSP020</b>
Gate Kit, 3-5/8" W, Black	<b>BHGL03X</b>
Gate Kit, 6" W, Black	<b>BHGL06X</b>
Gate Kit, 10" W, Black	<b>BHGL10X</b>
Gate Kit, 12" W, Black	<b>BHGL12X</b>
Retention gate (6), 3-5/8" W, Black	<b>BHGR03X</b>
Retention gate (6), 6" W, Black	<b>BHGR06X</b>
Retention gate (6), 10" W, Black	<b>BHGR10X</b>
Retention gate (6), 12" W, Black	<b>BHGR12X</b>
Finger section, 11U, Black	<b>BHFS11U</b>
Rack mount finger bracket, 11U, Black	<b>BHFB11U</b>
Divider bar, 3-5/8" W, Black	<b>BHDB03X</b>
Divider bar, 6" W, Black	<b>BHDB06X</b>
Divider bar, 10" W, Black	<b>BHDB10X</b>
Divider bar, 12" W, Black	<b>BHDB12X</b>
Fastener for vertical manager (100)	<b>BHPF100</b>
Tie mount for vertical manager (100)	<b>BHSM100</b>