21 Ways Belden Reduces Data Center Costs

Every dollar saved on energy, labor and staff resources can be redirected toward end-user experience improvements. Belden offers high-density data center solutions that save space, manage your environment, reduce operating expenses and accelerate deployment – ultimately translating to reduced costs for your data center.

Our End-to-End Expertise
Your End-to-End Solution

Monitor & Manage

Manual monitoring and tracking leads to errors. Knowing what's happening in and around your data center is the first step in identifying money-wasting problems.

Remote Climate Monitoring

- Detect environmental hazards (temperature, airflow, humidity and dew point problems)
- Receive notifications via cell phone or email

Power Distribution Units (PDUs)

- View real-time power load assessments
- Receive alarms when conditions exceed thresholds
- Monitor data center power usage effectiveness (PUE)

Visual Cues and Traceability

- Patch cords with blinking LEDs provide clear identification of both ends, saving time and reducing costs associated with troubleshooting and disconnecting the wrong cords
- Decrease infrastructure costs with bar-coded labels for tracking with data center software - the patch cords require no additional physical equipment for enterprise connectivity management

Reduce Energy Consumption

Data centers can waste 90% or more of the electricity they pull from the grid, according to *The New York Times*. Imagine what you could do with that money if it weren't being spent on excessive power, cooling and lighting costs.

Hot- or Cold-Aisle Containment

- Cap aisles to save energy by preventing waste heat from mixing with cool air
- Transition between flat roof and vertical containment without costly upgrades
- Keep hot and cold air in place with sliding doors that connect magnetically to prevent unnecessary cooling expenses

Passive and Active Rack Containment

- Direct hot air via an enclosed pathway, allowing server and computer room air conditioning (CRAC) unit fans to remove hot exhaust air and prevent mixing
- Intelligent controllers remove high heat loads to save up to 50% on cooling costs
- Eliminate hotspots and optimize airflow so you can deploy more IT equipment within the same footprint

Central Office White Pathways and Cabinets

- Eliminate glare and eye strain associated with stark white equipment
- Reduce lighting energy costs by 30% and lighting fixtures by 30% with high reflectance properties of central office white

Save Space

Right-size your data center to avoid waste due to over- or under-provisioning. By determining requirements based on current needs and future growth, Belden designs to suit. When you keep data center space usage in check, you keep operating costs in check as well.

Rack-Mount Products

- Gain vertical rack space
- Increase available space without increasing footprint or operating costs with 48U, 50U or 52U cabinets

Ultra-High-Density Copper Patch Panels

- Achieve double the port density with unique connector technology
- 48 ports in a 1U space

***AngleFlex*™ Patch Panels**

- Eliminate horizontal cable management purchases
- Achieve 27% space savings per rack

Fiber*Express*® UHD Patch Panels

- Accommodate 144 LC ports or 72 MPO ports for over 860 fiber potential in 1U of space

Small Diameter 10GX and 10GXS Cabling

- Tight bend radius allows for small, light cable trays and reduced installation and routing costs
- Reduce cooling loads by improving data center airflow
- Use 25% less space in cable pathways without compromising performance

Accelerate Deployment

The faster a data center is up and running, the more everyone benefits: end-users are happier, labor costs are lower and data center managers can turn their attention toward other cost-saving initiatives.

Pre-Terminated Copper and Fiber Cabling

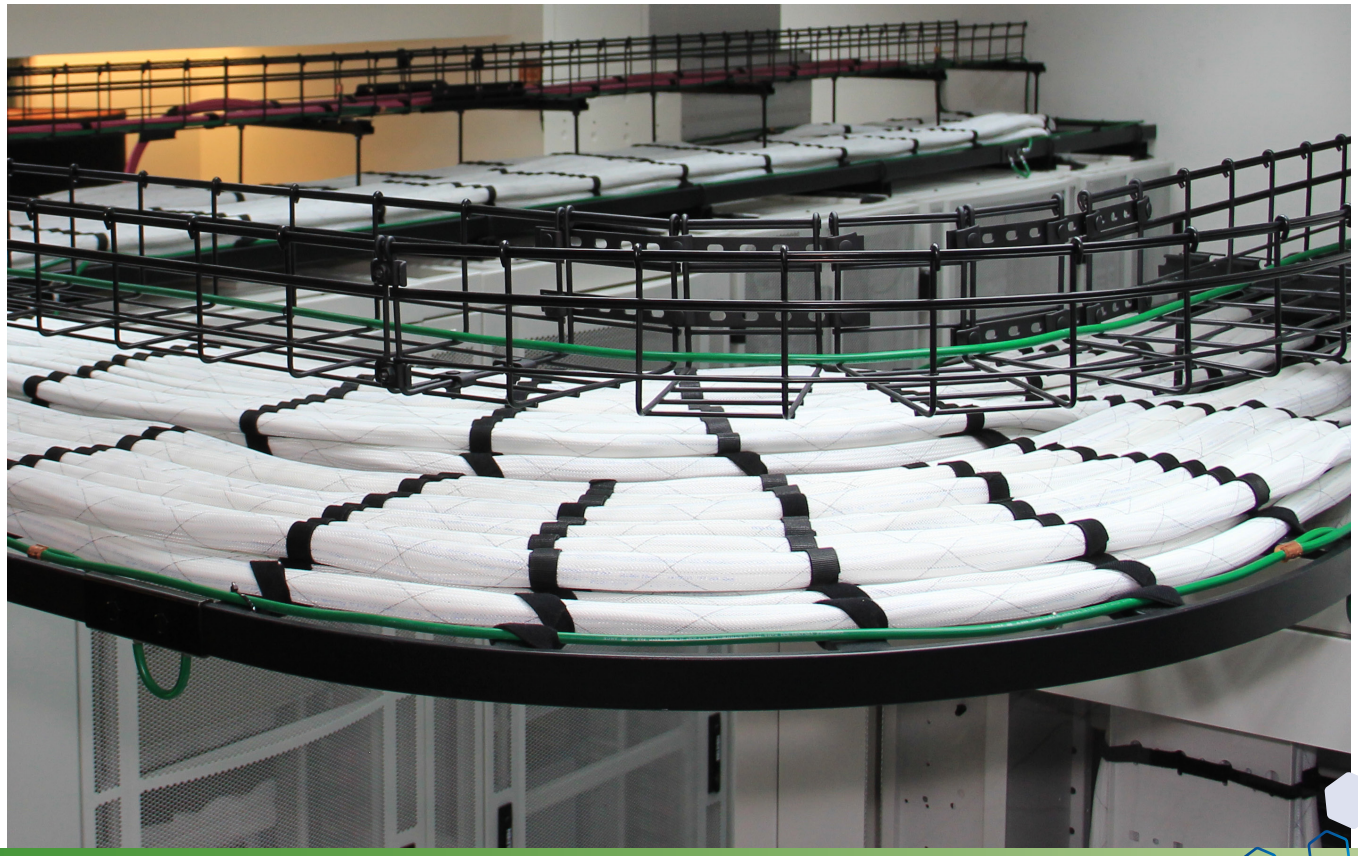
- Intuitive plug-and-play action with simple, reusable components
- Eliminate testing needs with built-in reliability
- Lower labor costs with faster moves, adds and changes
- Achieve significant time and cost savings with clear labeling that indicates attachments

KeyConnect Series

- Suits any data, voice, video or multimedia application
- Reduces installation costs with easy insertion and removal from any keystone-style opening
- Quick, cost-effective work area outlet reconfiguration

Ladder Rack Runways

- Fast deployment keeps you on schedule and within budget
- Flexible swivel design simplifies installation, making it easy to route around plumbing and electrical systems



Streamline Migration

Data center managers are charged with equipping the environment to handle current needs and providing a clear path for future requirements – while staying within fixed budgets.

Base8 Cassettes

- Optimize costs and achieve smooth migration
- Eliminate dark fiber associated with SR4 and PSM4 architectures
- Save 4% to 5% when deploying Base8 in duplex architectures for 10GBASE-SR and 25GBASE-SR
- Save 5% to 8% in SR4-based architectures

Fiber*Express*® Hydra Assemblies

- Easily upgrade from 10 Gbps to 40 Gbps or 100 Gbps
- Eliminate replacement costs for switching out MPO-to-LC cassettes for MPO frames

Open Bridge Racks

- Flexible, cost-effective migration to an Open Compute environment
- Used in three configurations: networking, server and Open Compute
- Convert quickly from TIA/EIA rails to Open Compute rails in the field

What Makes Belden Stand Out

Belden owns the manufacturing process, which means we can customize solutions beyond the capabilities of many of our competitors. Our expertise allows us to provide unique value-added services that set us apart. We can conduct cost analyses to compare data center solutions and help you make the best choice based on needs and budgets. Our data center knowledge allows us to work closely with every data center team member: low-voltage contractors, electrical contractors, IT staff, infrastructure specialists and facilities managers.

Assessment Services

- Uncover costly performance concerns
- Identify data center pain points that impact availability and capacity
- Resolve issues that waste time, money, energy and floor space

Consignment Services

- Store Belden products onsite without paying for them until they're needed
- Decrease freight costs through large orders that are packaged and bundled together

Data Center Ready Solution Sets

- Customized enclosures designed for optimal performance, with a single part number for ease of ordering
- Reduce labor costs and improve deployment time with copper, fiber and accessories that ship pre-installed

Virtual Inventory Services

- Keep necessary products in stock at a Belden warehouse, ready to ship within 24 hours
- Eliminate space dedicated to storing extra equipment

For more information visit
info.belden.com/data-center/contact

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