

Building a Sustainable Network Infrastructure



PANDUIT[™]
infrastructure for a connected world

Creating a Better Planet for Future Generations

Environmental sustainability is transforming our industry. We take a customer-centered approach to sustainability—it is our responsibility and commitment to be environmental stewards while we help support our customers on their sustainability journey.

From the sustainable design and packaging of our FlexFusion™ cabinet to reducing energy consumption with our UPS and PDUs to gaining efficiencies and reducing waste with our Vari-MaTriX HD cables and small diameter 28 AWG patch cords, we are aligning our efforts to our customers' sustainability objectives.



Panduit Environmental Stewardship Pledge

Mobilize the talent and resources of Panduit to achieve our environmental stewardship goals and build a sustainable business for our customers and our world.

Carbon Footprint Reduction

Move to renewable energy sources and carbon neutrality

Drive Sustainable Product Innovation

Increase offering of products designed and developed with sustainability in mind



Support the Circular Economy

Convert to post-consumer materials for products and packaging

Eliminate Waste

Attain zero waste to landfill

Materials & Processes

Going Above and Beyond Industry Standards

It is vital for us to have above industry standards in relation to materials and processes to ensure alignment with our sustainability goals. For instance, environmental impacts of copper cable and connector materials are measured, analyzed, and reported as part of our Environmental Product Declaration (EPD) process.

Globally Driven Results

7% reduction

in energy intensity

32% reduction

in total carbon footprint

10% reduction

in total waste

ISO 14001:2015

certification maintained for all Panduit manufacturing facilities



Products

Sustainability Solutions for LEED Points

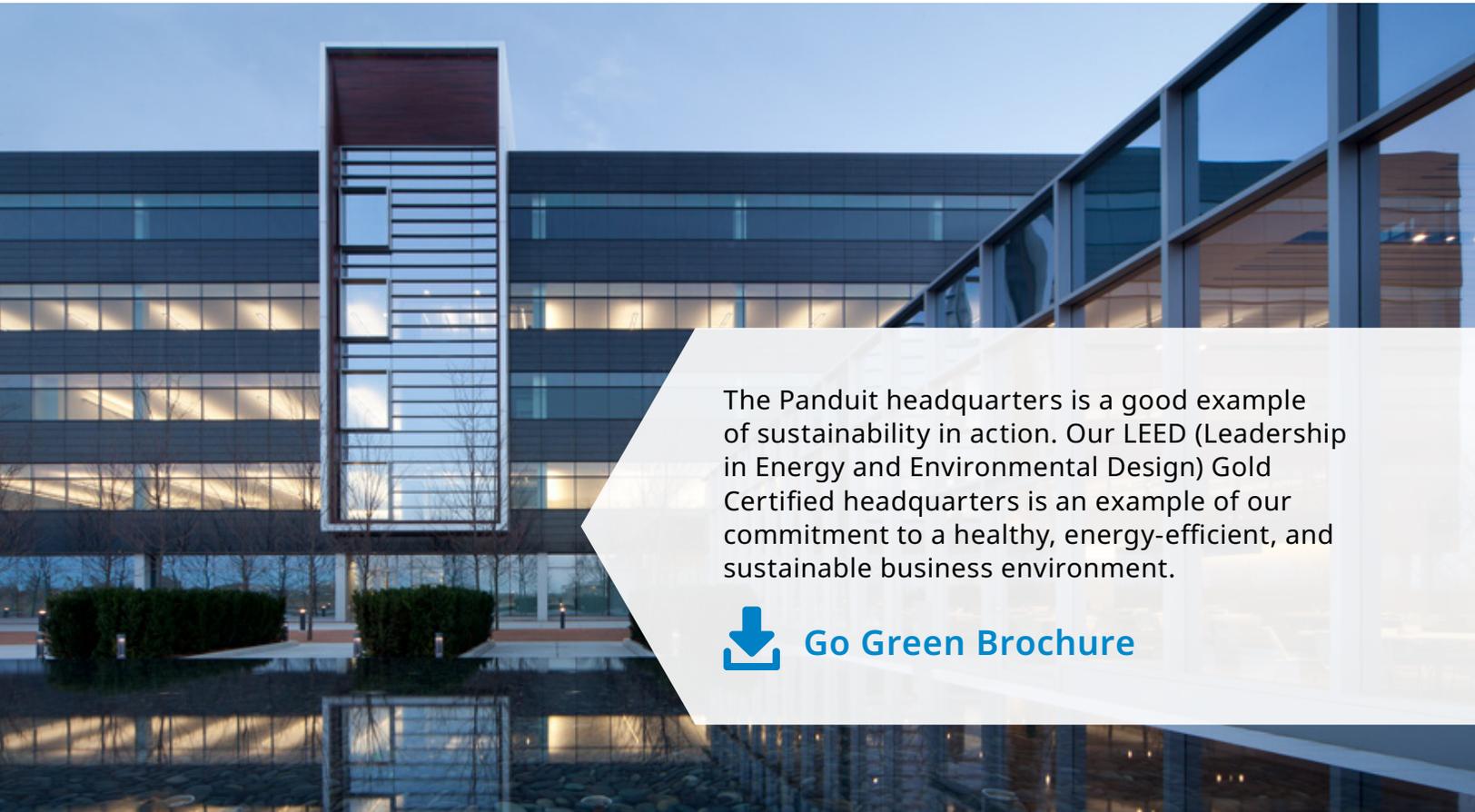
We can help you design sustainable solutions. Panduit offers Environmental Product Declarations (EPDs) for RJ45 jack modules, copper cabling, and a wide range of cable ties and cable clamps, with additional products currently being evaluated for EPD certification. EPDs are third-party verified reports that help end users earn points toward LEED certification for their buildings.

To first make designs sustainable, one must understand the product's impact on the environment. EPDs list the impacts of a given product on the environment.



[Sustainability Solutions for LEED Points \(Flyer\)](#)

[View the Completed List of Certified Products](#)



The Panduit headquarters is a good example of sustainability in action. Our LEED (Leadership in Energy and Environmental Design) Gold Certified headquarters is an example of our commitment to a healthy, energy-efficient, and sustainable business environment.



[Go Green Brochure](#)

Packaging

Small Packaging Changes Have a Large Impact

Some of the most common products Panduit manufactures for networking projects are connectors – both jacks and patch cords. Panduit offers sustainable packaging for patch cords and a selection of jacks and faceplates, which not only make them faster and easier to install, but also eliminates single-use plastic bags. We have begun transitioning all patch cords to a coiled cord with a paper flag label that is certified by the Forest Stewardship Council, which provides products that are responsibly produced. This move will eliminate millions of plastic bags each year, equivalent to more than 250,000 pounds of plastic.

Panduit also instituted a Packaging Council to identify emerging domestic and global packaging trends, improve recycling of packaging materials, identify reusable packaging options, and keep up with changes in global packaging requirements.



37% increase

in recycled industrial materials



12 Tons of plastic

saved annually through a reduction in packaging materials



90% less tape used

due to packaging automation



Leading the Way in Sustainable Packaging

Atlona packages its AV components in boxes made from recycled paper, with vegetable oil-based inks, which are more sustainable.



No More Paper Trail

Need installation instructions for a Panduit product? Paper copies have been eliminated from most packaging and installers can now access digital copies via the website or through an app. Similarly, Atlona removed paper user manuals from products and directs users to a digital copy and has plans to do the same with installation guides in the future.



[Visit the Atlona Landing Page](#)



[2023-2024 Panduit Sustainability Report](#)

Transportation

Smaller Cables Leave a Smaller Footprint

Innovations in Ethernet cabling solutions have resulted in the development and use of smaller cables – which are easier to work with and save space in cable trays, conduit, and networking racks. Additionally, smaller cables also have environmental benefits.

LESS MATERIALS:

- **Vari-MaTriX HD** cables are the smallest Category 6A cables on the market and **use 16% less materials than standard size cables**
- **28 AWG patch cords** are produced using **45% less materials than standard 24 AWG patch cords**, meaning fewer natural resources consumed and less plastics manufactured

EFFICIENT SHIPPING:

- The smaller size of Vari-MaTriX HD cables equals smaller reels for the same length of cable, meaning more reels can be stored on each pallet
- Allows more product in the same footprint in a warehouse, jobsite, or truck, resulting in improved transportation efficiency, lower costs, and reduced environmental impact
- Standard pallet capacity is 36 reels, compared to 12-27 reels per pallet for other Category 6A cables
- Consolidated shipping to distribution
- **Increased efficiency** by double stacking of pallets and maximizing container capacity
- Drop ship available to **reduce emissions associated with transportation**



Onsite Implementation

Sustainable Data Center Solutions

At Panduit we strive to design Data Center solutions to help our customers advance their environmental sustainability goals.

We are committed to decreasing packaging waste and reducing energy consumption with our thermal optimization solutions, as well as our UPS, cabinet, and PDU products.

Cooling and Costs Saved with Cabinets & Containment



- **FlexFusion™** white-colored cabinets can save up to 30% in lighting costs (1.5%-3% data center energy savings)
- **Net-Contain™ Universal Aisle Containment** solutions reclaim underutilized cooling capacity and reduce energy expenses

Power Distribution for a Powerful Sustainable Outcome



- **415V PDUs** that are brought to the rack can supply 240V for IT equipment, improving efficiency by as much as 14% compared to the same piece of equipment running on 120V
- **UPS System** reduces energy waste and electricity costs with a green design. It is RoHS and Reach compliant. It is also CE certified. This product has earned the UL Certified Mark. In addition, the Uninterruptible Power Supply earned the ENERGY STAR®.
- **G6 Intelligent PDU:** The iPDUs provide comprehensive, accurate, energy measurement data to efficiently use power resources, make informed capacity planning decisions, improve uptime, measure PUE (power usage effectiveness), and drive green data center initiatives to save energy and money.
- Discover how Panduit G6 iPDUs are **Cisco Compatible** and can enhance network efficiency and power management.



Cable Management That Reduces Floor Space

The **FlexCore™ Optical Distribution Frame** can also be mounted against a wall due to it requiring only “front access” for installation, moves, adds, and changes. Other 19-inch fiber distribution products often placed in a rack or cabinet may need to utilize rear access for installs. The modular configuration can help Multi-Tenant Data Center providers get the most value as key areas on the floor are not being utilized.

- Compared to typical data center cabinets (42U height and 19-inch width), the FlexCore™ Optical Distribution Frame can reduce floor space in a data center by 50%*

*Assumes four double frames (two double frames in a 'back-to-back' arrangement). Design conditions and configuration specifics apply.



Customer Case Study:

The Panduit IT Infrastructure and Network Data Center Solution enables Orange Jordan to Deliver a More Efficient and Sustainable Colocation to its Customers

Smart = Sustainable

Panduit offers a wide range of products that are used to build and connect smart buildings and a key component of smart building technology is sustainability. Smart building technologies connect various building functions and rely on data to efficiently manage the building. Some of the environmental benefits of smart buildings include:

- Data analytics track energy usage and expenses of individual building assets to better manage energy consumption
- Sensors can track occupancy of rooms and use of equipment, turning off appliances and services when they are not being used to reduce energy use
- Dependence on Power over Ethernet reduces the amount of dedicated power lines, receptacles, and power adapters throughout a building, instead delivering power and data to devices through a single low voltage cable

Panduit is continuing to research and design more sustainable products and solutions to build and connect smart buildings.



Customer Case Study:

BMW Dealership Builds Smart, Sustainable Headquarters with Panduit Infrastructure

Reducing Power Consumption Through Our AV Products

Atlona designs AV products with power consumption in mind, using as little power as possible, without sacrificing performance. Display controls lower the power consumption of displays and projectors. And, Atlona amplifiers all are ENERGY STAR certified products.



Atlona Key Products Brochure



We have the knowledge
and experience to help you
make the most of your
infrastructure investment.

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