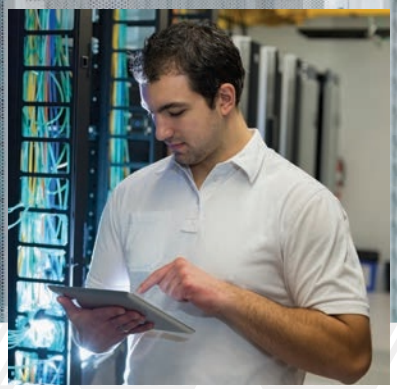
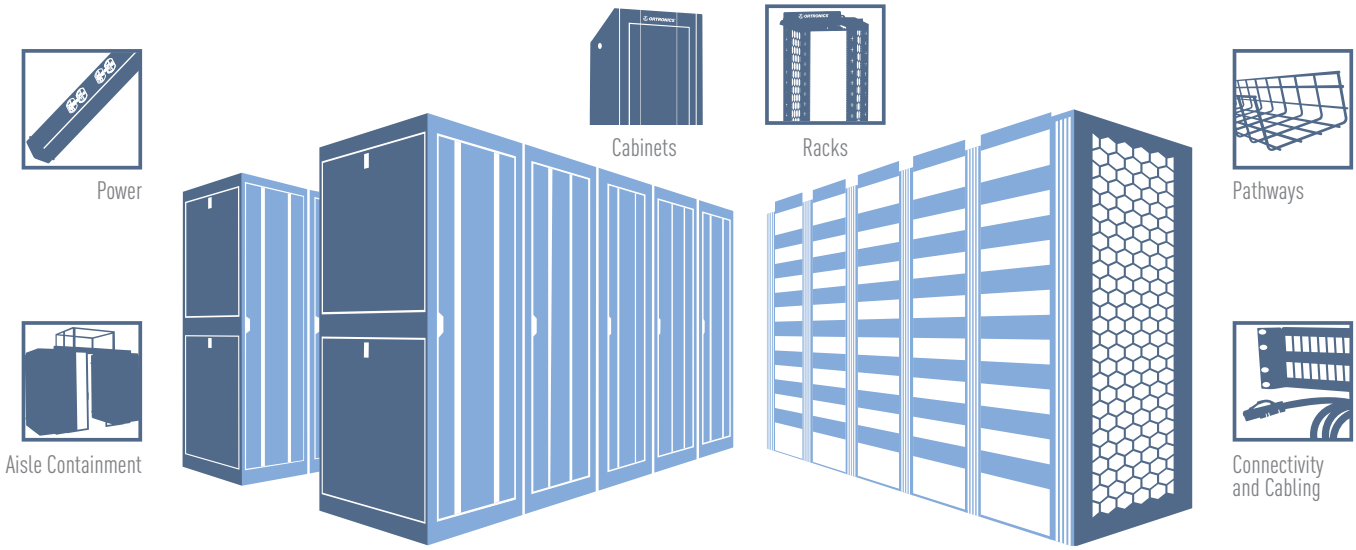
# DATA CENTER
## SOLUTIONS GUIDE



designed to be better.™

legrand®




## RACKS AND CABINETS

Legrand's cabinets and racks, designed for all your network and server needs, are manufactured with cable management and installation efficiency in mind. This complete product offering ranges from the most advanced solutions to standard racks and accessories. Legrand's offering will meet the unique needs of any installation, whether it is a network closet or large state-of-the art data center and can also provide purpose-built solutions, meeting the most stringent custom requirements.

- **Performance:** Integrated cable management and airflow
- **Space:** Taller racks
- **Experience:** Purpose built solutions

## CONNECTIVITY AND CABLING

Legrand offers a complete line of copper and fiber connectivity to support mission critical applications and deliver maximum uptime. With the Q-Series, TechChoice®, Clarity® and Infinium™ product families, Legrand delivers the right solution to make the most of any IT budget. The offering includes copper jacks, panels and patch cords, copper and fiber cable assemblies, fiber connectors, cassettes and adapters, as well as fiber enclosures and a full array of pre-terminated solutions, accessories and installation tools. These systems are designed to integrate seamlessly with Legrand's physical infrastructure for superior cable management and network performance.

- **Space:** High density and mixed media
- **Performance:** nCompass structured cabling systems
- **Experience:** Custom cable assemblies

## nCompass SYSTEM WARRANTY

Legrand partners with leading cable partners across the globe to deliver nCompass™, a suite of high performing copper and fiber optic structured cabling systems. nCompass cabling systems are backed by an extended performance, application, product and labor limited lifetime warranty on certified horizontal and backbone systems, assuring maximum uptime and performance from the network.

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# INTEGRATED SOLUTIONS

## DATA CENTER CHALLENGES

Constantly evolving business needs, advancements in virtualization and cloud computing technology, increasing density demands, limited space, and expectations to lower operating expenses are causing constant disruptions in the data center, server room, or network closet no matter the size.

Today's data center environment requires a solution that's designed to be better™. It must be adaptable and easily scalable for the future. The solution should install efficiently and correctly the first time, so there is no delay or additional cost to a project. It is essential that all the elements of the data center work together seamlessly and efficiently, beyond the physical infrastructure. Legrand's Connected Infrastructure approach is aligned with critical data center trends, including:

- Meeting the demands for a data center that is highly virtualized, big data-driven, fast and flexible, and supports the needs of a mobile workforce
- Meeting the budget demands by simplifying and reducing the time and resources required for the initial data center build
- Supporting faster deployment of new devices and technology in the data center and implementing moves/adds/changes more quickly

## LEGRAND CAPABILITIES

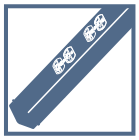
Legrand® is a complete end to end solutions provider with a range of connectivity, physical infrastructure, cable management, pathways and power and cooling solutions for the data center to maximize network performance, energy efficiency and capacity for today and tomorrow's demands.

Legrand is a leader in network infrastructure solutions, with products designed to support data center, commercial buildings or audio/video applications, connectivity products that meet industry standards and racks and cabinets that can be manufactured globally.

### Legrand's product lines include:

- Cablofil®
- Electrorack®
- Ortronics®
- Quiktron®
- RapidRun®
- Wiremold®

> "In our data center pod build-out, with the overhead cable pathway from Legrand, we managed to free up 5RU of connectivity space in each of our cabinets, optimizing our current footprint and creating additional capacity for future growth, thus saving power and cooling capital expenditures."
>
> – DATA CENTER OPERATIONS DIRECTOR, FORTUNE 500 INVESTMENT FIRM



## POWER

Legrand offers a wide range of power products for specific applications. Whether it is power distribution in the data center, surge protection for advanced electronics or equipment power cords in the enterprise environment, Legrand has the solution that meets any power requirements.

- **Space:** Universal power mounting solutions
- **Experience:** Configurable power distribution
- **Performance:** Legacy of power expertise

## THERMAL MANAGEMENT

Legrand offers a full portfolio of airflow management and cooling solutions. Racks and cabinets are designed with integrated passive cooling to guarantee network protection and energy efficiency. Legrand's full portfolio includes integrated airflow management at the rack level, containment to prevent mixing of the cold and hot air and refrigerant close-coupled cooling for maximum efficiency and capacity. Legrand can deliver the most adapted cooling solution based on a specific heat load in the data center for today and tomorrow.

- **Time:** Seamless integration
- **Sustainability:** Energy savings
- **Performance:** Increased capacity

## PATHWAYS

Legrand has designed cable pathways for both copper and fiber to adapt to each twist and turn cables must make, while ensuring proper bend radius and network performance. With the Ortronics and Cablofil® complete range of products, Legrand provides exceptional solutions, seamlessly integrated with physical infrastructure for easy installation and superior flexibility and scalability.

- **Experience:** Broadest portfolio
- **Performance:** Cross-platform functionality
- **Time:** Innovative cable management

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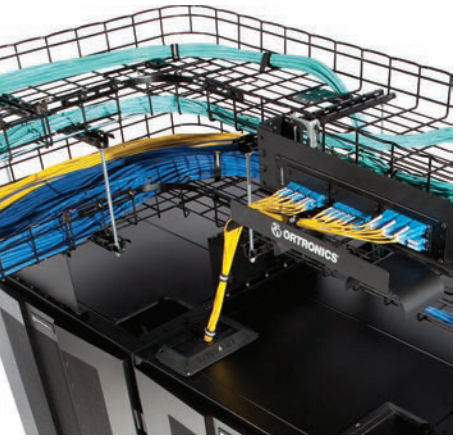
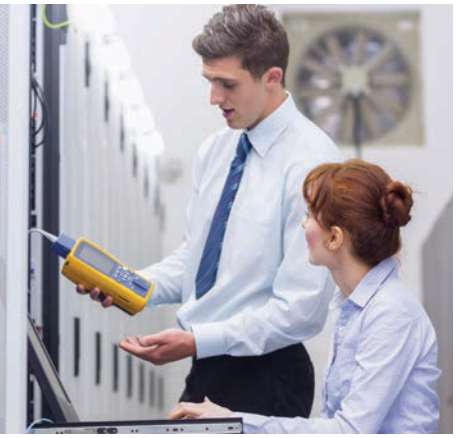




## CONNECTED INFRASTRUCTURE

Legrand solutions, backed by industry leading sales, design and support teams, are the foundation for Connected Infrastructure, a comprehensive approach to the network. Through Connected Infrastructure, Legrand delivers maximum performance, time savings, space optimization, superior customer experience and sustainability by design, to address your challenges, today and tomorrow.

### Guaranteed Performance

- Reliability guaranteed
- Network protection
- Uptime

### Save Time

- Easy installation
- Efficient moves, adds and changes
- Better ROI

### Optimize Space

- Increased density
- Higher capacity
- Flexible and scalable designs

### Superior Experience

- Engineering expertise
- Collaborative design
- Local to global relationship

### Enable Sustainability

- Environmental stewardship
- Regulatory compliance
- Energy-efficient solutions

CONNECTED INFRASTRUCTURE

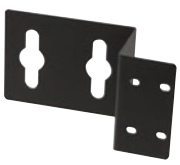
"With innovative thermal management and integrated close-coupled cooling, the Legrand solutions not only provided us with a 20% annual saving on cooling costs, but it also enabled us to grow within our space."

– CHIEF ENGINEER OF INFRASTRUCTURE,
LARGE NONPROFIT GOVERNMENT RESEARCH
AND DEVELOPMENT ORGANIZATION

## POWER

Power Distribution Units (PDU)

Colored Power Cables



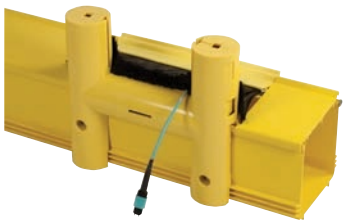
PDU Mounting Brackets

## THERMAL MANAGEMENT

Aisle Containment

Integrated Cabinet and Cooling Solutions

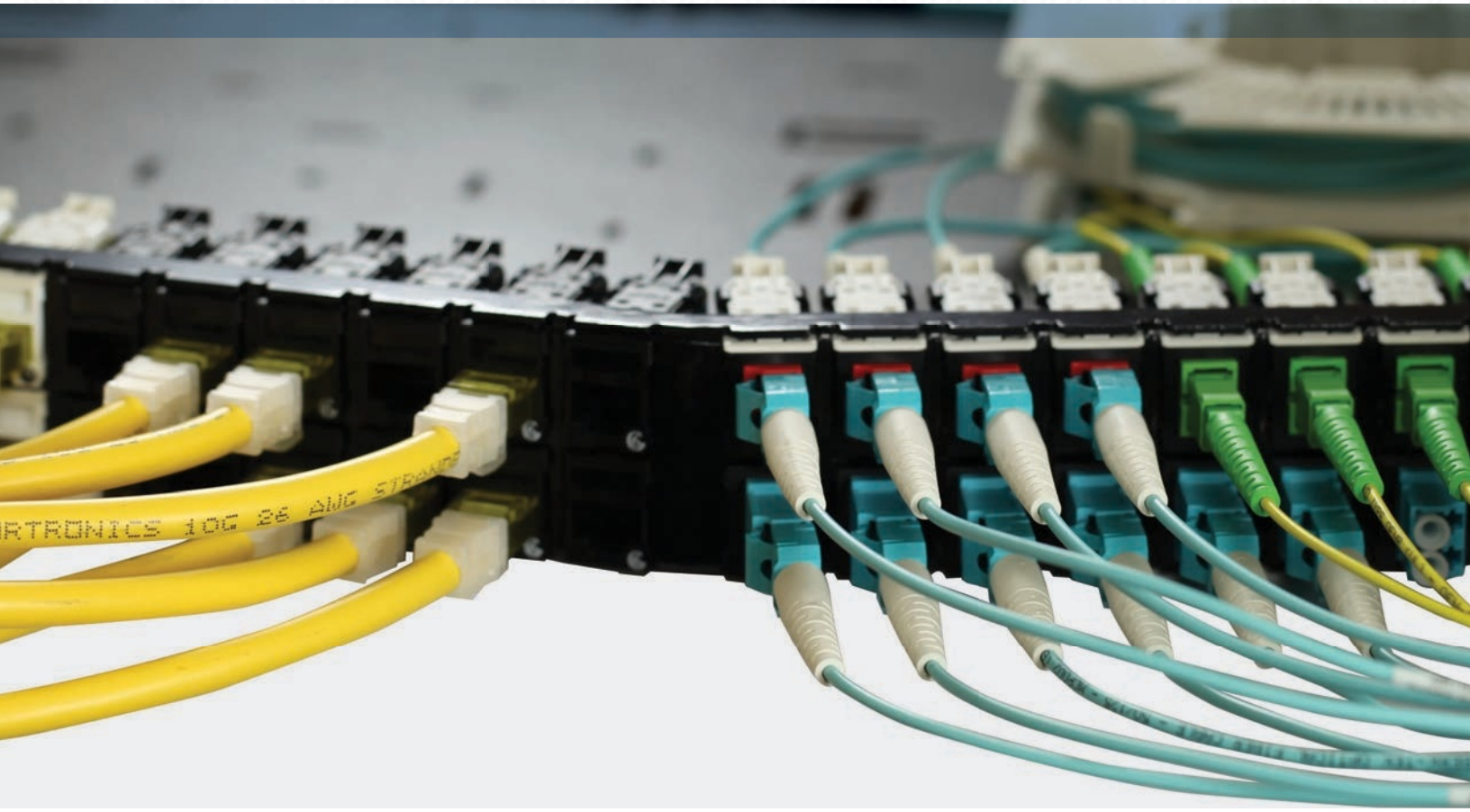
## PATHWAYS



Mighty Mo® Fiber Raceway

Cablofil® Wire Mesh Cable Tray

Tubular Runway



## RACKS, CABINETS AND CABLE MANAGEMENT

LX Cabinets

Mighty Mo® 20 Channel Racks

GX Cabinets

Mighty Mo 20 4-Post Racks

Mighty Mo Overhead Cable Pathway Racks

Horizontal Managers

## CONNECTIVITY AND CABLING

Copper and Fiber Pre-Terminated Solutions

Clarity® Copper Connectivity

Infinium™ Fiber Connectivity

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