

Data and Networking Solutions





nVent CADDY Data and Networking Solutions Guide

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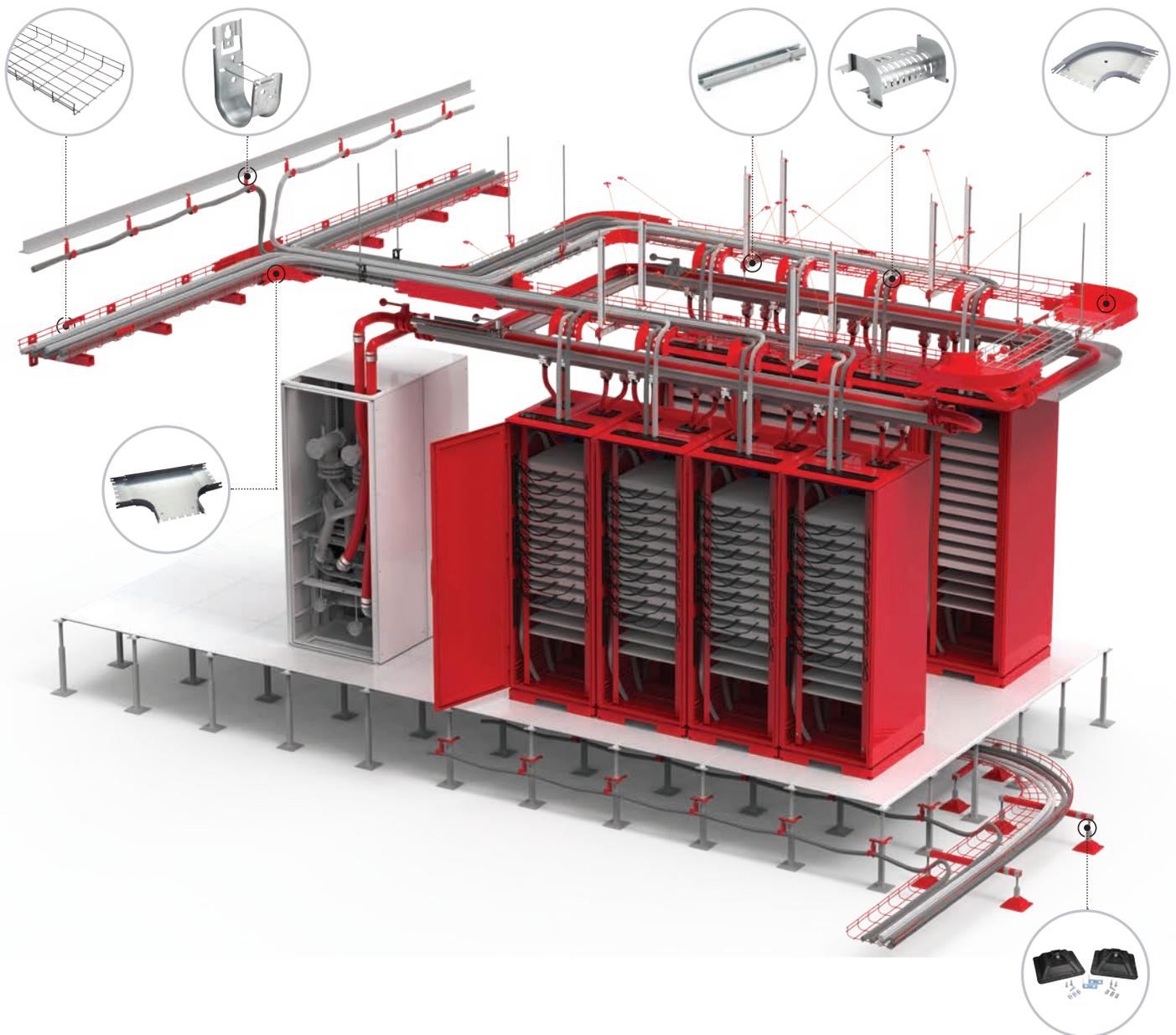
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From single wire to large bundle and cable tray, nVent CADDY has products and engineered solutions to fit any datacom need.

Our problem-solving and time-saving solutions include products you know and trust from the Improved nVent CADDY Cat HP J-Hook System to the nVent CADDY Wire Basket Tray System. Our products are designed to work together and bring you an end-to-end solution.

At nVent CADDY, we connect global mechanical, electrical, plumbing and datacom systems with our pioneering fastening solutions, designed specifically to support your needs. As your trusted partner, you can rely on our expertise and intuitive solutions to prioritize your safety while enhancing your productivity.





Wire Basket Tray



The nVent CADDY Wire Basket Tray System is an industry leading continuous pathway support solution for today's high-performance cabling systems.



Optimizing Space with Design Flexibility

Our innovative "shaped tray", form liners, supports, hardware and accessories prioritize vertical space utilization without compromising design flexibility.



Time and Cost Efficient Solutions

Improve productivity and reduce risk with less time spent on elevated surfaces and unskilled tasks.



Safety and Reliability

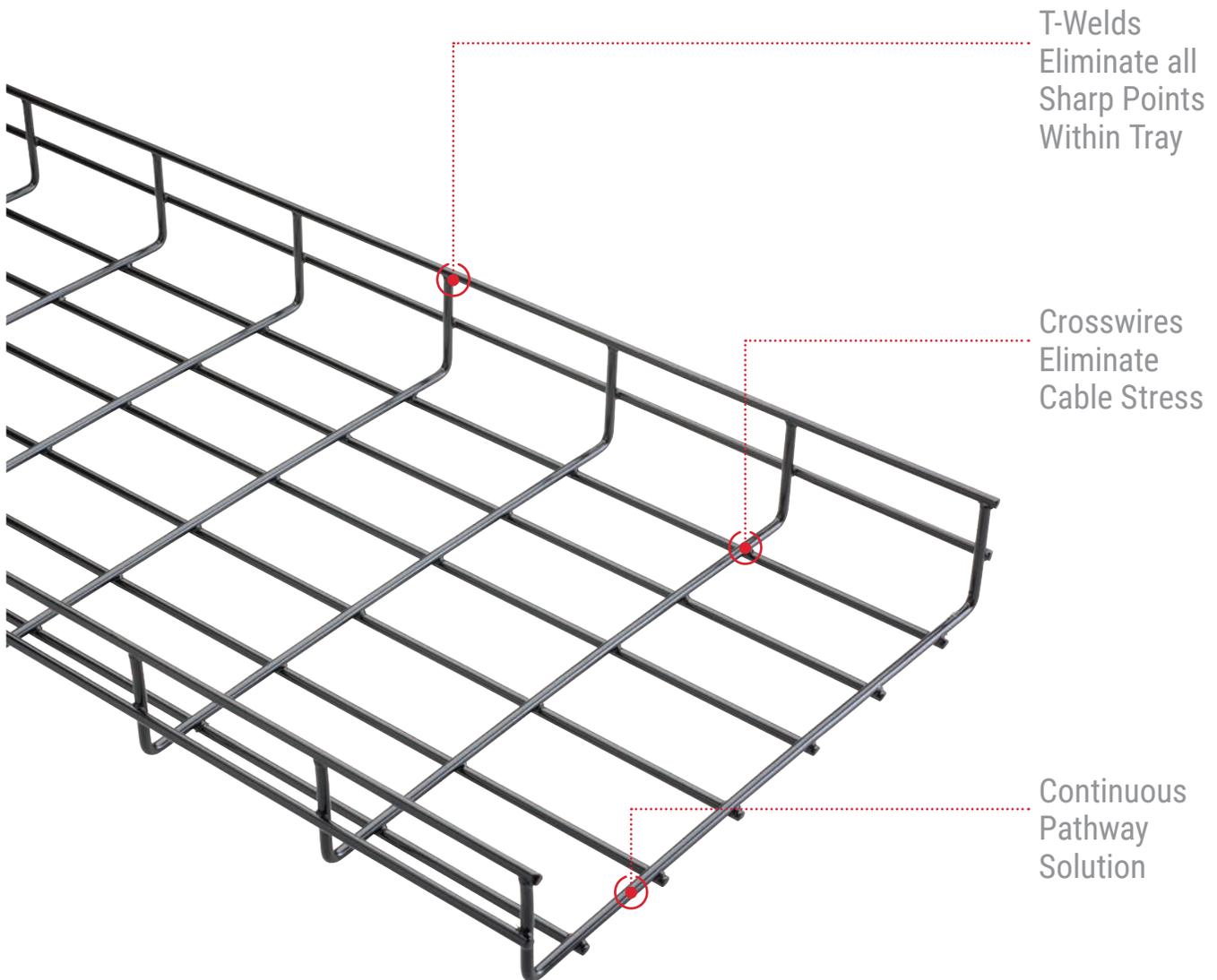
Our highly engineered features facilitate industry-standard compliant installations, enhancing safety and ensuring maximized uptime.

nVent CADDY Wire Basket Tray System

Today's data centers and on-location datacom solutions are critical to business operations. nVent CADDY Wire Basket Tray meets and exceeds the demands for the most complex data centers and small businesses alike.

nVent CADDY Wire Basket Tray is a continuous pathway solution to support high-performance cabling systems while providing an ideal foundation for datacom and electrical contractors. Combined with an offering that includes cable tray supports, hardware, transitions and accessories—a full-system solution is created. As your trusted ally, we here at nVent CADDY are committed to designing products that deliver superior fastening solutions for your challenges. No matter how large or small your project, we want to keep you [Working Smarter](#) both on and off the job site.

NVENT CADDY WIRE BASKET TRAY



Wire Basket Tray Features and Benefits

- Provides optimal support for high-performance data cable, up to and including fiber optic, Cat 5e, Cat 6, Cat 6A, and Cat 7
- UL Classified as an equipment ground conductor; no field removal of paint required
- T-Weld edge wire for cable and installer protection
- Mill Certificates are available to document recycled content for possible LEED credits/certification

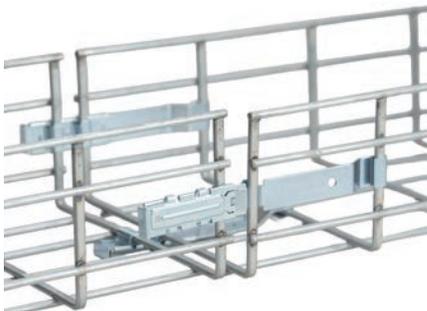


nVent CADDY Wire Basket Tray System

Wire Basket Tray



SHAPED WIRE BASKET TRAY



nVent CADDY Wire Basket Tray is a continuous pathway solution to support high-performance cabling systems while providing an ideal foundation for datacom and electrical contractors.

Compared to traditional round tray technology, shaped tray wires are specially designed to reduce cable strain while maximizing installation flexibility, resulting in a system that can be installed on longer runs with more complex shape configurations. Wire Basket Tray provides the ideal foundation required by today's datacom and electrical contractors.

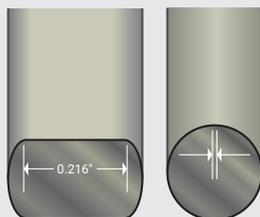
Shaped Tray Advantages:

- 400% increase in cabling support—designed to protect mission critical infrastructure
- 5 mm rod construction for higher load rating
- Up to 65% reduction in cabling pressure/strain to meet relevant cabling standards
- No sharp edges during construction ensures cable and installer protection
- Cuts, configures and splices to meet custom project requirements
- No training requirements for the installer



Shaped Tray – High-Strength Advantage

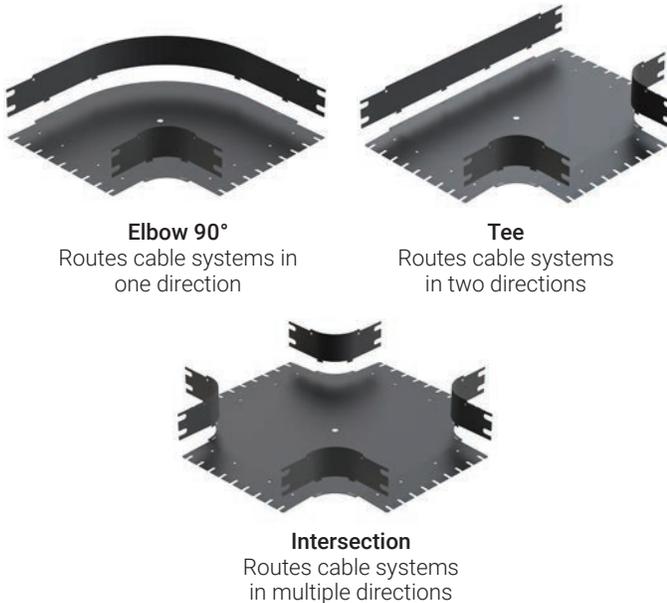
nVent CADDY offers shaped crosswires that eliminate cable stress by increasing the support of the cabling, yet still provides the same functionality of wire tray to cut and configure and utilizes the same splicing and mounting hardware. nVent CADDY also offers full round wire configuration, if preferred, or for industrial or electrical applications.



nVent CADDY Wire Basket Tray Transitions

Solve common cable pathway, cable tray joining and direction changes with nVent CADDY Wire Basket Tray Transitions. Corners, tees, intersections and cable reductions are easy due to the innovative plastic insert that works with the entire nVent CADDY Wire Basket Tray line of solutions. When properly installed, Wire Basket Tray Transitions can save time and improve productivity, while providing ease of maintenance for future cable expansions.

NVENT CADDY WIRE BASKET TRAY TRANSITIONS



Features and Benefits



Precise Material Selection

- Steel bottom for aesthetic finish
- Flame retardant polymer rails



Snap-In Rails

- Tool-free installation requires no cutting or configuring
- Provides clean bend radius
- Avoids sharp protrusions and protects cables

nVent CADDY Wire Basket Tray Hardware

On-site splicing and joining of cable tray can add time and money to any installation effort. nVent CADDY Wire Basket Tray Hardware provides innovative ways to save contractors time while providing lasting, reliable solutions that are aesthetically pleasing. Everything from traditional splices and washers to innovative tool-free hardware is available to you from nVent CADDY.

NVENT CADDY WIRE BASKET TRAY HARDWARE



Features and Benefits

nVent CADDY Wire Basket Tray Hardware products allow installers to quickly and easily secure a wide range of cable tray sizes and configurations. With multiple different options, there is a solution for your specific needs.

- Create a continuous grounded bond between sections of the tray
- Multiple color options aid in the identification and organization of cables
- Compatible with nVent CADDY Wire Basket Tray, both shaped and round
- Improves job site productivity
- Time and cost savings



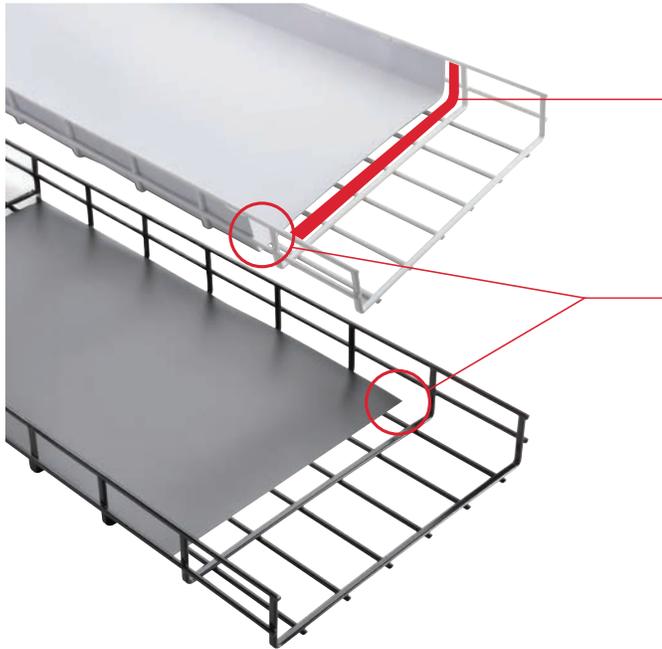


nVent CADDY Wire Basket Tray Accessories

Wire Basket Tray

The nVent CADDY Wire Basket Tray Accessories offer continuous support for low-voltage cabling while ensuring the cable's bend radius is respected. From wire basket tray raceway attachments to dividers and polymer cable tray inserts, these accessories create added stability and an aesthetically clean-end.

NVENT CADDY WIRE BASKET TRAY POLYMER INSERTS



Side Walls Available

- Increased side protection
- Creates full coverage of tray



Color Options

- Available in a range of colors
- Coordinates with cable tray color selection for easy identification and aesthetic



Fire Safety

- Flame-retardant polymer ensures the safety of critical systems

The nVent CADDY Wire Basket Tray Polymer Insert utilizes a flame-retardant polymer to envelop the entire tray-providing bottom, side and cover protection. Available options include a flat bottom or a prescored version to the tray depth for coverage of the bottom and sides.

NVENT CADDY WIRE BASKET TRAY ACCESSORIES



Cable Dropout

Waterfall

Vertical Down

Features and Benefits

- Controls cable transitions out of tray to Improved nVent CADDY Cat HP J-Hooks or nVent CADDY Wire Basket Tray
- Cable drop outs are tool-free
- Provides optimal support for high-performance data cable, up to and including fiber optic, Cat 5e, Cat 6, Cat 6A, and Cat 7
- Ensures the natural bend radius of the cable is protected

nVent CADDY Rod Lock Threaded Rod Mounting System

The nVent CADDY Rod Lock family of products allows contractors to prefabricate complex assemblies at ground level or off site, and then easily lift and lock them into place by pushing the threaded rod supports into the nVent CADDY Rod Lock device. The system is designed to allow end-users to maximize the benefits of prefabrication including time-savings, lower overall installation cost, and improved safety. This ingenious technology works with threaded rod with burrs or imperfections, helping to eliminate clean-up time or the need to replace damaged threaded rod.

The most unique feature of the system is its breakthrough “Push-to-Install” design, which dramatically reduces the installation time of threaded rod support structures when compared to conventional fasteners. Simply speaking – nVent CADDY Rod Lock is revolutionizing how contractors support conduit, cable tray, lights, ductwork and pipe by helping to make installations faster, easier and more secure.

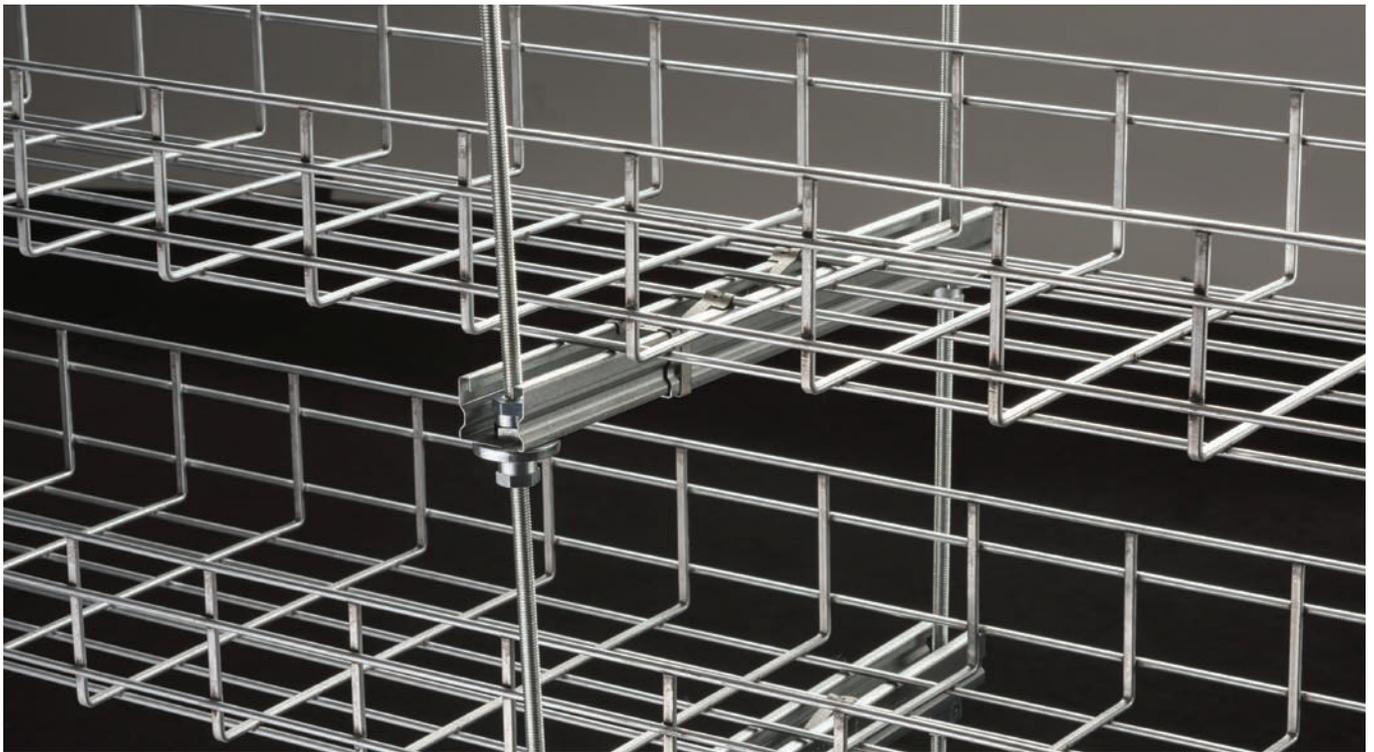
Combine the nVent CADDY Wire Basket Tray System and nVent CADDY Rod Lock Threaded Mounting System for a powerful end-to-end solution, designed to simplify data centers.

NVENT CADDY ROD LOCK TELESCOPING STRUT REPLACEMENT



Features and Benefits

- Easy Push-to-Install technology allows installers to simply push the threaded rod through the mounting hole, instantly holding it in position
- Telescopes to the desired length and is locked in place by snapping closed a spring retainer clip
- Standard strut profile runs the entire length of the part, allowing most standard fittings to be placed anywhere between the rods



Tray and Ladder Supports





nVent CADDY Rod Lock Hardware



nVent CADDY Rod Lock Hardware are the problem solvers of the job site. These innovative solutions include nuts that push onto a threaded rod and nuts that mount to the threaded rod from the side.



Tray and Ladder Supports

NVENT CADDY ROD LOCK STRUT NUT



Features and Benefits

- Provides fast universal attachment of threaded rod and hardware to standard strut profiles
- Can be used to prefabricate assemblies which can be quickly pushed onto previously installed threaded rods
- Works with slightly damaged threads and minor burrs on the threaded rod
- Easy Push-to-Install design allows installers to simply push the threaded rod through the mounting hole, instantly holding it in position

NVENT CADDY SNSW FLANGED NUT



Features and Benefits

- Ideal for retrofit projects, such as trapeze installations, where disassembly of the support system is not desired
- Use as a stopper when installing nVent CADDY Rod Lock assemblies
- Can be easily installed, removed, and repositioned at any location along the threaded rod
- Ready to use out of the box and eliminates multiple pieces of standard hardware
- Functions as a hex nut and flat washer combined
- Washer is wide enough to work with standard strut channel profiles

NVENT CADDY SN SERIES NUT



Features and Benefits

- Allows side mounting of nut to threaded rod
- Reduces the need for threading compared to standard nuts and washers
- Ideal for retrofit projects, such as trapeze installations, where disassembly of the support system is not desired
- Works with slightly damaged threads and minor burrs on the threaded rod

nVent CADDY Tray and Ladder Supports



NVENT CADDY WIRE BASKET SUPPORTS



Features and Benefits

- Accommodates threaded rod suspension without strut
- Range of installations
 - Riv-nut, retrofit, side-mount
 - 3/8", 1/2"
 - M8, M10
- Tool-free, snaps in place
- Add on features to hang Improved nVent CADDY Cat HP J-Hooks or other accessories

NVENT CADDY WIRE BASKET TRAY CLIP



Features and Benefits

- Innovative nVent CADDY Armour—a three-layer coating technology
- Tool-free solution allows installers to simply squeeze with their fingers and snap into place
- Compatible with nVent CADDY Wire Basket Tray and nVent CADDY Rod Lock Threaded Mounting System

NVENT CADDY SPEED LINK SYSTEM



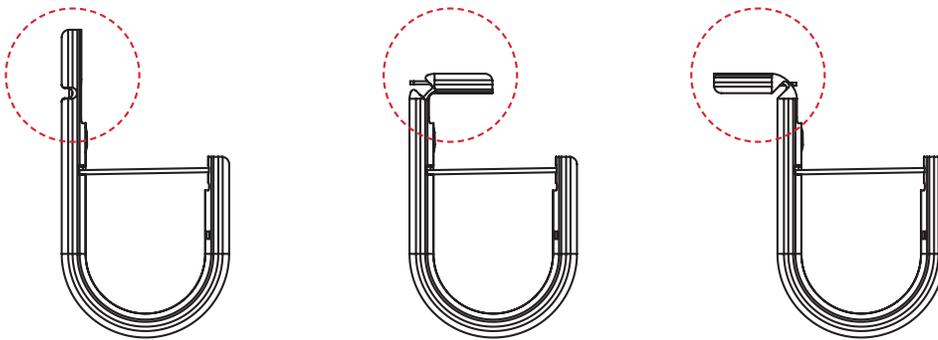
Features and Benefits

- Extremely flexible
 - Various lengths available
 - Catalog of nVent CADDY attachments to structure
 - Infinitely adjustable
- Low profile device – minimizes visual impact
- Keyless release – easy to use

nVent CADDY Versa-Mount Technology



Tray and Ladder Supports



The Improved nVent CADDY Cat HP J-Hook System is the most advanced, non-continuous pathway support solution for today's high-performance cabling systems. Highly engineered features help ensure a safe, fast and easy installation that complies with industry codes and standards for high-performance cables.

nVent CADDY J-Hook Versa-Mount Technology is an innovative attachment design that provides multiple structural and installation methods for wall, ceiling, and threaded rod mounting applications. This innovative technology features a 180° bend radius that is ideal for unknown jobsite applications or attachment methods.



NVENT CADDY CABLE PATHWAY SOLUTIONS



Cable Support and Protection

Our J-Hooks meet the latest TIA-568 requirements and are designed for future-proof installations for ultra-high speed and PoE.



Snap-to-Secure Tabs

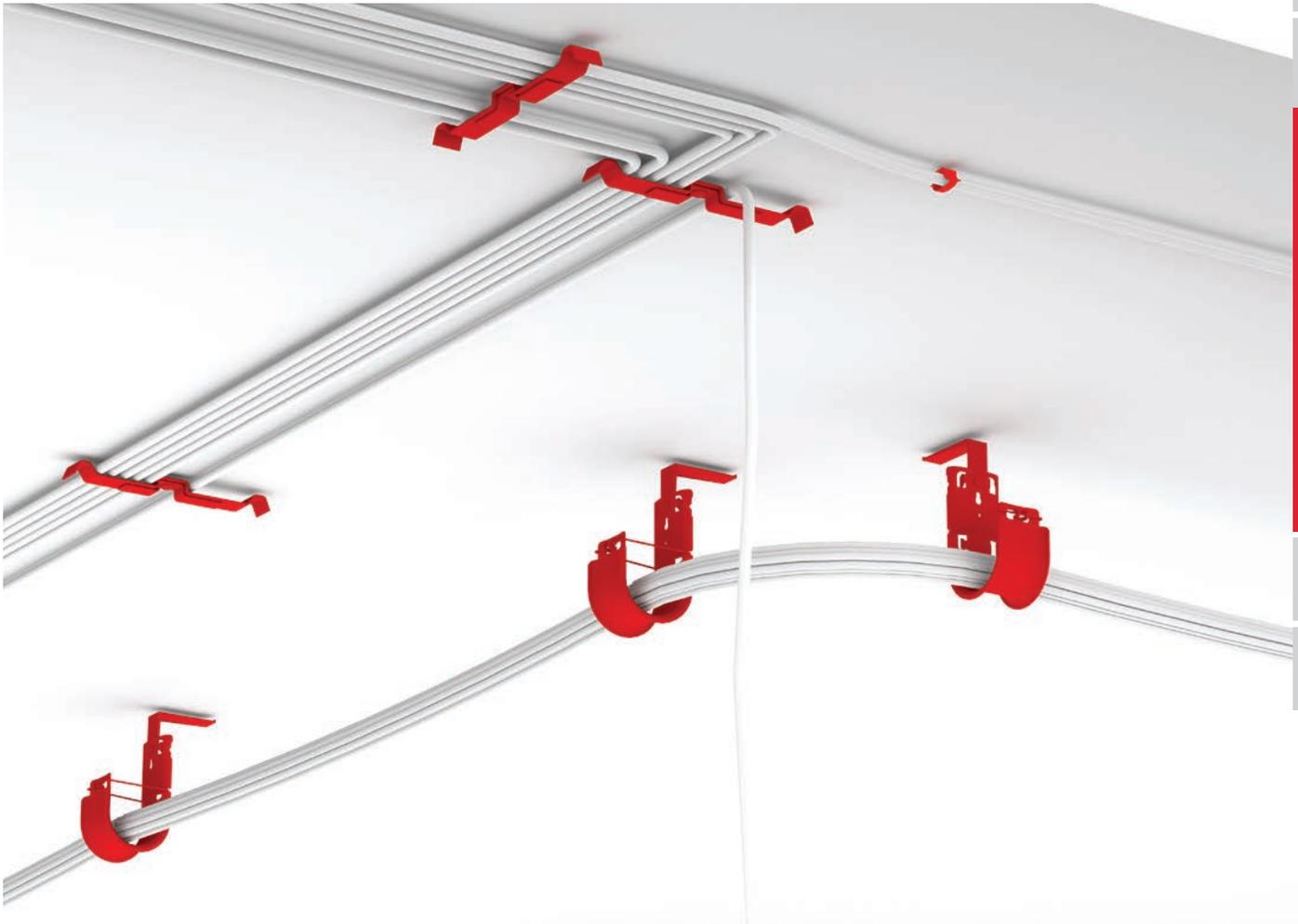
With an easy and convenient method to install cables, the Improved nVent CADDY Cat HP J-Hook System builds contractor confidence in secure cables.



Robust Construction

Industry-leading load capacity, designed for simple field configurations. UL Listed for enhanced safety and cable security.

Improved nVent CADDY Cat HP J-Hook System



Why Choose the Improved nVent CADDY Cat HP J-Hook System?

FEATURES AND BENEFITS

- A wide range of attachment methods available
- Advanced non-continuous pathway support solution for high-performance cables
- Can be installed on ceilings, floors, walls or other surfaces
- Industry industry-leading radius

SIMPLER SOLUTION

- Provides optimal support and protection for high-performing low voltage cables
- Simple and effective design eliminates the need for special tools or connection fittings
- Optimize inventory and reduce SKU count



Large Cable Bundle



Trusted Experts for Fastening and Cable Support Systems

PROVIDES CONTINUITY FOR PATHWAY IDENTIFICATION

Improved nVent CADDY Cat HP J-Hooks are available pre-galvanized or painted to aid in the identification and organization of the pathway application.

MULTIPLE MOUNTING OPTIONS

1. Wall Mount
2. Threaded Rod Mount
3. Ceiling/Deck Mount



Improved nVent CADDY Cat HP Mod Clip Components

Improved nVent CADDY Cat HP Mod Clip Assemblies are a fast, easy and tool-free way to attach and hang nVent CADDY Cat HP J-Hooks. By removing the need for screws, rivets or special tools, both installation time and cost are reduced. Our innovative nVent CADDY J-Hook Versa-Mount Technology is designed to work seamlessly with the Cat HP Mod Clip which allows for multiple structural and installation methods for wall, ceiling and threaded rod mounting applications.



Hammer-On Flange



Purlin



Rod/Wire



Strut



Pedestal



Brackets



Beam Clamp

nVent CADDY Versa-Mount Technology



Large Cable Bundle

Power over Ethernet (PoE)

IEEE 802.3 initially standardized Power over Ethernet (PoE) in 2003. Since then, it has become the standard for transmitting power and data through the same cable.

THE nVENT CADDY DIFFERENCE

The Improved nVent CADDY Cat HP J-Hook System supports and contains cables without the need for bundling, and they help maintain cable quantity and quality of cable separation. In addition, Cat HP J-Hooks are metal, which helps heat to dissipate into air faster than other materials, and it has the most compliant bend radius required by ANSI/TIA 568-E in the market – ideal for higher category cables with thicker insulation and larger diameters. For PoE applications, Cat HP is the ideal cable support solution.

INSTALLATION BENEFITS FOR PoE

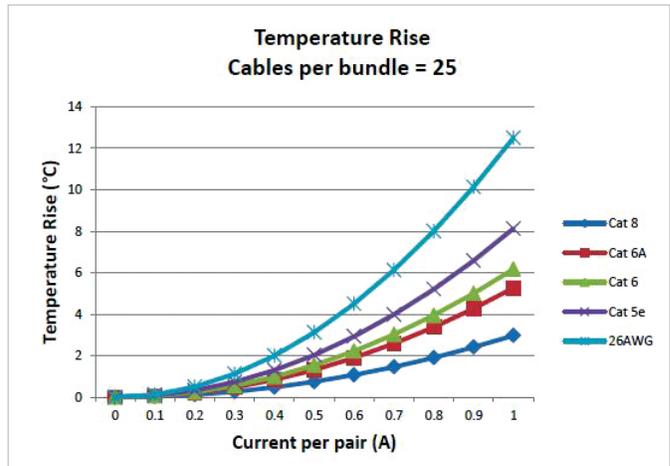
With all these benefits, the technology continues to put the power transmission capacity. This is commonly referred to as high wattage PoE, typically transmitting 60 – 100 W.

- Smart devices – power and data in one
- Reduced power consumption
- Flexibility and adaptability

CHALLENGES FOR PoE

- Heat generation
- Can impair transmission rates
- Long-term cable degradation
- 328 ft run limit
- Installers of structured cables can take several actions to mitigate the excessive heat generated by PoE:
- Higher-rated category cables, which can greatly diminish the impact on temperature – most common: 5e, 6, 6A, 7
- Use cables with high gauge copper conductors (up to 22) and temperature rated insulation jackets/shielded cables
- Control bundle size and spacing in basket tray / ladder rack installations
- Use metallic non-continuous cable supports – superior for dissipating heat

To learn more about how Improved nVent CADDY Cat HP J-Hooks can minimize the risk of heat and support cables in PoE applications, visit nVent.com/CADDY



TIA 568-E

Min bend radius = 4x cable diameter (copper)

Min bend radius = 20x cable diameter (fiber)

TIA TSB-184-A and ISO/IEC TR 21925

Bundle = close pack for 1 m

ANSI/BICSI D044

Bundle = close pack for 24 in

Max bundle size and spacing specs

IEEE 802.3bt

Type 3 – 60 W; Type 4 – 99 W

Tips:

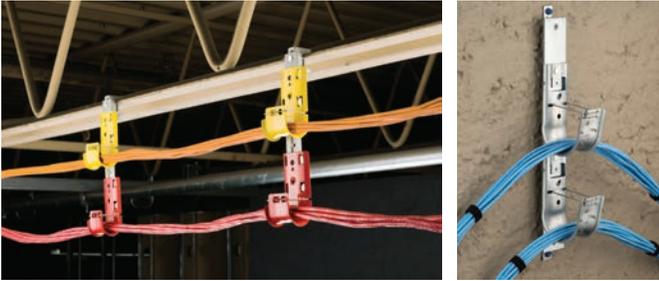
Avoid running cables in conduits or cable supports that are enclosed. Also lower the fill rate in cable trays to encourage better air flow.

For greatest heat dissipation, lay cables loosely in trays rather than bundle them together.

Large Cable Bundling Options

nVent CADDY provides multiple options to effectively support large bundles of high-performance category cable. When cable tray is difficult to install in tight spaces, these nVent CADDY non-continuous cable supports will help the contractor meet the application requirements.

NVENT CADDY CAT HP J-HOOK TREES



Features and Benefits

- Ideal solution for segregating multiple runs of cable following the same path
- Includes all benefits of the nVent CADDY Cat HP J-Hooks
- Multiple attachment methods – wall, ceiling, beam flange
- Multiple capacity and color configurations

NVENT CADDY CAT 425 ADJUSTABLE CABLE SUPPORTS



Features and Benefits

- Highly configurable, various attachments to structure
- String, flexible fabric cable saddle
- Move large amounts of cable in a narrow pathway
- Provides optimal support for high-performance data cable, up to and including Cat 5e, Cat 6, Cat 6A, Cat 7 and fibre optic
- Multiple sizes and designs available to attach to a variety of structures



Large Cable Bundle



Medium Cable Bundling Options

nVent CADDY provides multiple options to effectively support medium bundles of high-performance category cable. Branching out from primary cable tray pathways, these nVent CADDY non-continuous cable supports will help the contractor meet the application requirements.

IMPROVED NVENT CADDY CAT HP J-HOOK



Features and Benefits

- nVent CADDY Versa-Mount Technology: Innovative attachment design provides multiple structural and installation methods for wall, ceiling, and threaded rod mounting applications
- Ideal for unknown job site applications or attachment methods
- Improved design allows for optimized inventory while reducing job site scheduling risks associated with multiple SKUs
- Provides optimal support for high-performance data cable—including category cable, Power over Ethernet (PoE), and fiber optic
- Industry-leading bend radius designed to protect high-performance data installations
- Multiple color options aid in the identification and organization of the pathway application
- Provides superior fill capacity and load rating
- Compliant with UL® 2043 and suitable for use in air handling (plenum) spaces

NVENT CADDY CAT CM DOUBLE J-HOOK



Features and Benefits

- Provides optimal support for high-performance data cable, up to and including Cat 5e, Cat 6, Cat 6A, Cat 7 and fiber optic
- System offers a convenient pathway for wires and cables
- Double J-Hooks can be mounted vertically along the same drop rod to create a tree configuration
- Allows addition of cables even when fixed flush to overhead decking

NVENT CADDY CAT CR50 LOW-VOLTAGE CABLE RETAINER



Features and Benefits

- Cost-effective means of cable management
- Easy to install, squeeze to close
- Suitable for air handling spaces (plenum)
- Allows for horizontal and vertical change of direction
- Works with CAT 5e and higher, fibre optic and coaxial cable

NVENT CADDY LOW VOLTAGE ACCESSORY CLIP



Features and Benefits

- Ideal for low voltage applications, such as security, video, Wireless Access Protocol (WAP), Power over Ethernet (PoE), fire, and control wire
- Tool-free installation to existing wire basket pathway made easy with side retaining flaps
- Designed to fit commonly available wire basket tray with bottom and side mount applications
- Modular ganging feature for ease of installation expansion

Improved nVent CADDY Cat HP Assemblies

Improved nVent CADDY Cat HP Assemblies are the fastest CATs in the Improved Cat HP family because they provide a high-performance J-Hook solution in a single assembly. They are ready to use right out of the box with a broad range of attachment methods. Improved Cat HP Assemblies are ideal for new construction or when the structural attachment requirements are well understood and installation speed is critical.

Features and Benefits

- The ideal assembly, ready out-of-the-box
- Multiple attachments, configurations, and orientations offer the ability to tailor the solution to the application
- Universally compatible with commercially available structural elements
- Portfolio offers the widest range of options to best meet your installation needs

Flange/I-Beam



Improved nVent CADDY Cat HP J-Hook with BC200 Beam Clamp



Improved nVent CADDY Cat HP J-Hook with BC200 Beam Clamp, Swivel



Improved nVent CADDY Cat HP J-Hook with BC Beam Clamp



Improved nVent CADDY Cat HP Double J-Hook with BC200 Beam Clamp, Swivel



Improved nVent CADDY Cat HP J-Hook with Hammer-On Flange Clip



Improved nVent CADDY Cat HP J-Hook with Hammer-On Flange Clip, Swivel



Improved nVent CADDY Cat HP Double J-Hook with Hammer-On Flange Clip, Swivel



Improved
nVent CADDY
Cat HP
J-Hook System

[Know more](#)

Concrete/Steel Deck



Improved nVent CADDY Cat HP J-Hook with Shot-Fire Bracket



Improved nVent CADDY Cat HP J-Hook with Nail Gun Bracket



Improved nVent CADDY Cat HP J-Hook with Angle Bracket



Improved nVent CADDY Cat HP J-Hook with Pin Driven Angle Bracket

Specialty Applications



Improved nVent CADDY Cat HP J-Hook to Pedestal



Improved nVent CADDY Cat HP J-Hook to Strut



Improved nVent CADDY Cat HP J-Hook to T-Grid



Improved nVent CADDY Cat HP J-Hook to Rod/Wire



Improved nVent CADDY Cat HP J-Hook with C Purlin Clip





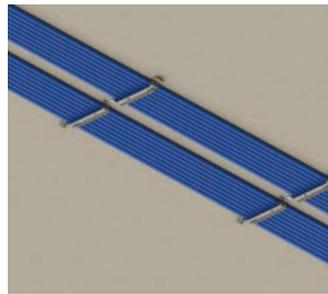
Small and Single Cable Bundling Options



As cable quantity gets smaller along the cable pathway, nVent CADDY offers products that are not only cost effective but also quick to attach to various structures from metal beams to threaded rods. Some of them offer a low-profile feature for better aesthetics and to accommodate tight spaces.



NVENT CADDY METAL PRESSURE CLIP



Features and Benefits

- Ideal for smaller runs of cable
- Flexible clip retains shape and allows for cables to be inserted after installation
- Rounded edges help prevent cable damage
- Low profile allows for installations in tight space



NVENT CADDY SELF-CUTTING CABLE TIE



Features and Benefits

- Eliminates sharp edges and protects exposed skin from cuts during installation
- Lock and twist to cut, no cutting tools required
- Different colors including a black UV-protected version to meet specific needs
- RoHS (Restriction of Hazardous Substances Directive) compliant
- Halogen free
- cULus Listed to UL 62275/CSA C22.2 No. 62275, UL Certified to IEC 62275

Small Bundle and Single Cable

NVENT CADDY SNAP CLIPS



Features and Benefits

- Easy, hammer-on installation
- Secure low voltage effectively to beam flange
- Wide range of sizes
- Gripping tab provides a secure fit to the frame
- Options for solar and standard versions

NVENT CADDY CABLE RETAINER STRAP WITH FLANGE CLIP



Features and Benefits

- Easy, hammer-on installation
- Secure low voltage effectively to beam flange
- Bend tab allows for easy installation

nVent CADDY Rooftop Pyramid Supports

nVent CADDY Pyramid Rooftop Supports are a surface-mounted solution for supporting electrical and mechanical applications on a variety of roof surfaces. They offer superior load capacity and dramatically reduce installation time by replacing slow, heavy and labor-intensive methods for support of pipe, conduit, duct, cable tray and equipment.

NVENT CADDY PYRAMID ROOFTOP SYSTEMS



Features and Benefits

- Foam bottom offers low abrasion interface for better roof membrane protection
- Compatible with roof surfaces including single ply, bituminous, metal and spray foam
- Provides superior load distribution, even with varying rooftop surfaces
- Multiple sizes and load ratings offer the ability to tailor the solution to the application

nVent CADDY Seismic Bracing

From design to construction to inspection, we keep our process transparent to ensure a full understanding of the final bracing installation, whether it requires cable or rigid bracing solutions.



An Industry First:
Illustrated Handbook for
Simplifying Seismic Protection
Learn More Today →

WE MAKE SEISMIC SIMPLE

- Working with you to design a turn-key, fully engineered, complete bracing system that meets your needs
- Offering compatible fixing, fastening and support products
- Explaining installation techniques and tips to meet the evolving codes and standards requirements

1

Email your drawings to your sales representative or complete our contact form online



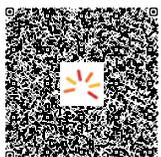
2

Receive a fully, engineered, turn-key seismic solution customized to meet all code requirements



3

Work with one of our trusted distributors for easy ordering and fast delivery



**Sign Up Today
for Access to the
nVent CADDY
Calc Seismic
Bracing Calculator**

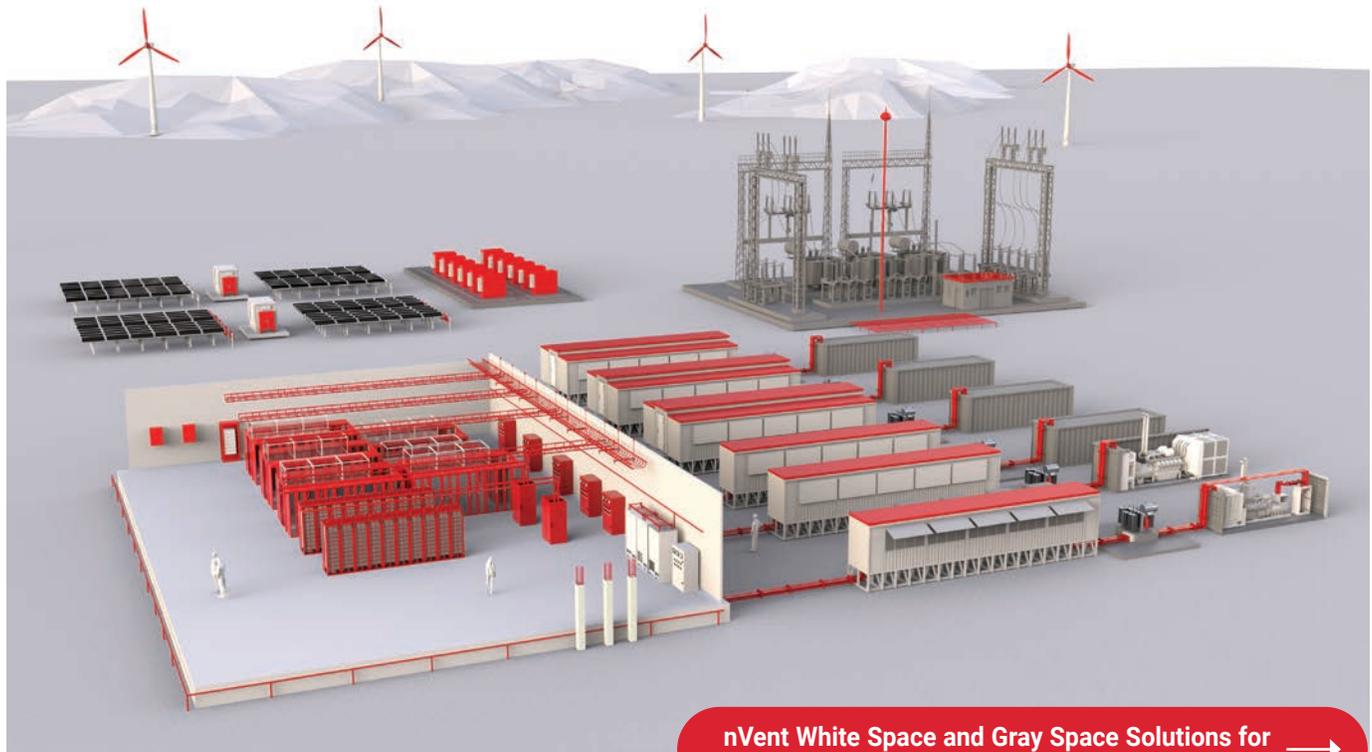


nVent Data and Networking Solutions



The highest amount of data and network availability is crucial in today's connected world and ever-expanding IT and communication requirements demand remote equipment solutions in places where they never existed. nVent CADDY is proud to be a part of the broad portfolio offered by nVent Data and Networking solutions. This modular and broad portfolio combined with design and project support, enables you to specify and deploy your project on time to ensure data and network infrastructure availability and protection.

BUILDING THE FUTURE OF DATA CENTERS



nVent White Space and Gray Space Solutions for Data Centers from AI to Enterprise and Beyond →



MISSION CRITICAL SOLUTIONS FOR ELECTRIFICATION



RESILIENCY AND SAFETY



CUSTOMER PRODUCTIVITY AND TOTAL COST OF OWNERSHIP

nVent specializes in complete liquid cooling architecture design, offering solutions that encompass the entire cooling circuit from the Coolant Distribution Unit (CDU) to the server, ensuring lower total cost of ownership and ease of installation.



Scalable solutions for all applications



Resilient protection to maximize uptime



Maximize energy efficiencies



Reliable, space saving solutions



Easy Integration

More nVent Datacom Solutions



nVent CADDY **WORKING SMARTER**

Innovative, time-saving products designed to help you work safer, more efficiently and with greater success.





Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE