Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

GridRunner™ Underfloor Cable Routing System

High Capacity, Versatile Pathway Solution for Data Centers
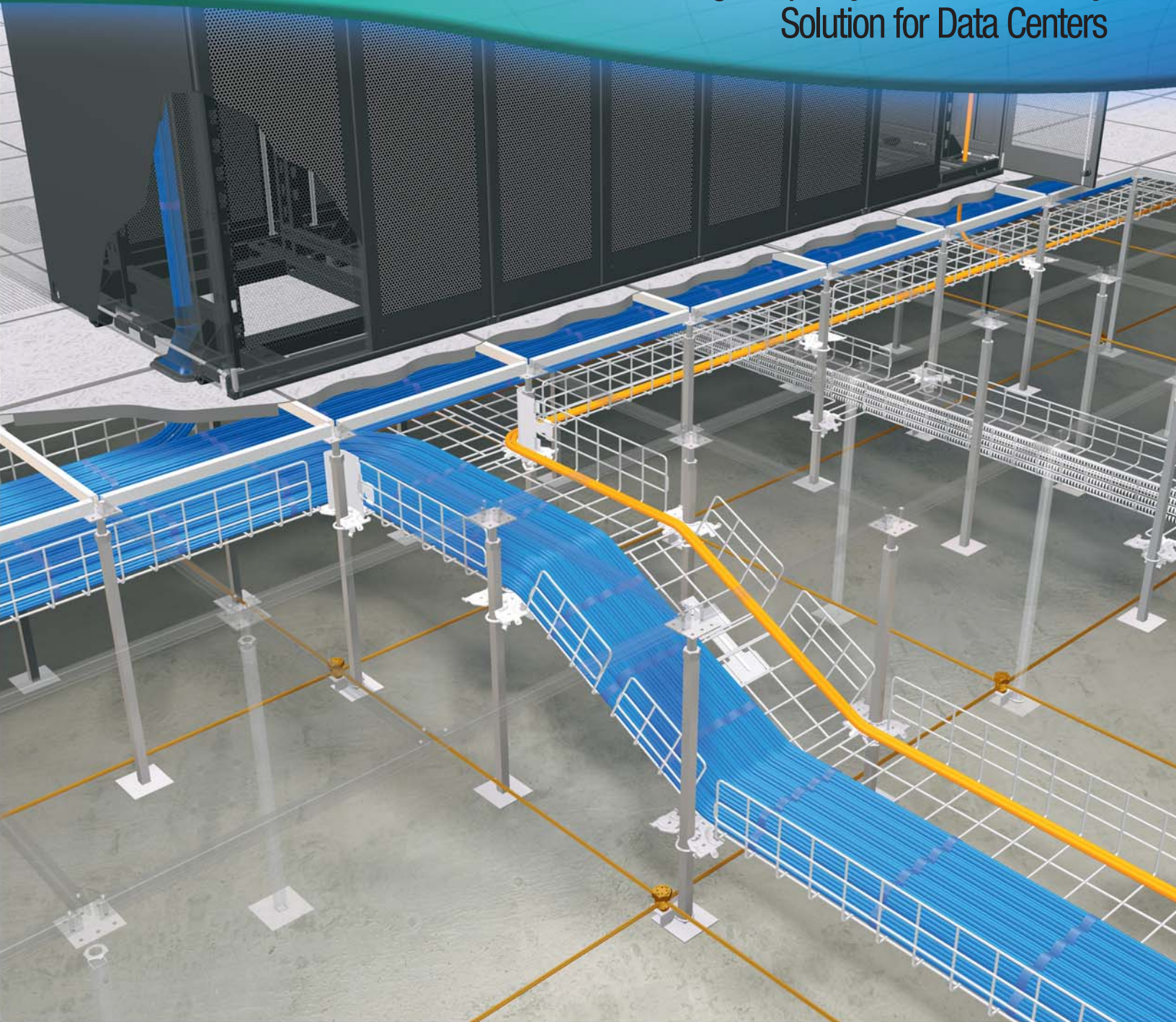
PANDUIT®

building a smarter,
unified business foundation

Connect. Manage. Automate.

Cable Routing Innovation
Designed Specifically for Underfloor Data and Power Cabling Applications

The trend toward increased server density, more storage equipment, and higher capacity switches in today's data centers presents a unique challenge to those designing and maintaining the physical infrastructure – providing the best method to route and manage the growing amount of data and power cabling while ensuring high levels of network performance.

Ease of deployment, safety and cable capacity are important considerations when specifying a cable pathway. Most commonly used underfloor pathway systems are labor intensive to install, offer minimal cable protection and do not include integral features that ensure a mechanical or electrical bond to the Mesh Common Bond Network (MCBN). Panduit has resolved these issues with a solution that integrates seamlessly with the access floor, cabinets, and the MCBN.

The Panduit® GridRunner™ Underfloor Cable Routing System is a versatile pathway designed to route and manage network data and power cabling beneath the raised floor in a data center, delivering numerous benefits to designers and installers.

Panduit's Unified Physical Infrastructure (UPI): a Guiding Approach

A unified approach to physical and logical systems architecture is imperative for solutions to fully address the need for availability, agility, integration, and security.

Panduit has developed the industry's most comprehensive and holistic approach to a Unified Physical Infrastructure and can help enterprises align, converge, and optimize critical systems – communication, computing, control, power, and security – to build a smarter, unified business foundation.

Mitigate Risk – Efficient physical infrastructure management enables seamless integration to reduce risks which can occur throughout core systems.

Lower Cost – Panduit physical infrastructure solutions drive financial advantages to reduce energy and occupancy costs, and help secure competitive advantage.

Increase Agility – A high level of integration within the physical infrastructure enables flexibility and improved business agility.

Enhance Sustainability – UPI-based solution offerings enable organizations to meet sustainability goals by driving resource and energy efficiencies across the physical infrastructure.

Unified Physical Infrastructure

communication   computing   control   power   security

Robust Construction

Cable pathways need to route and manage growing cable densities. The GridRunner™ System offers multiple widths and depths to accommodate high-density switch applications and power cabling distribution. The unique wire basket design provides a durable underfloor infrastructure that resists deflection over the lifetime of the application. A pre-galvanized finish helps prevent corrosion and will not promote the growth of zinc whiskers that can potentially damage sensitive electronic equipment.
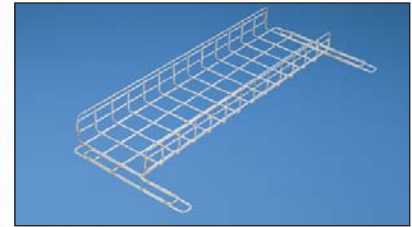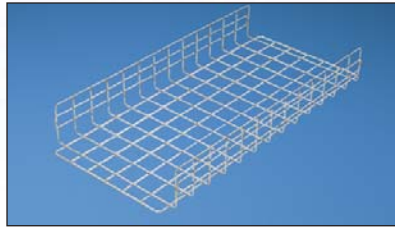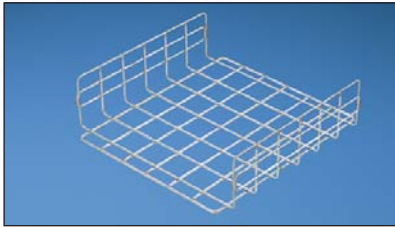
Quick Installation

Typical underfloor cable pathway installations often require cutting basket sections and removing stringers. The GridRunner™ Wire Basket sections simply drop in between the floor stringers and attach to GridRunner™ Pedestal Brackets for fast assembly. The brackets provide secure mechanical connection to round and square raised floor pedestals with the use of a single tool and a single captive fastener. An integrated, rotating support plate feature allows the pedestal bracket to easily adapt to square pedestals that are not square to the grid.
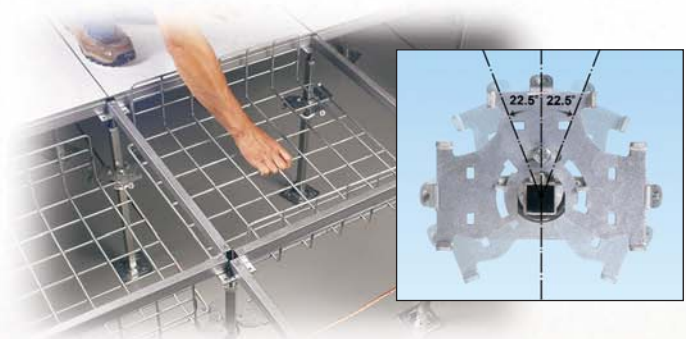
Safety and Protection

Sharp edges on typical wire basket trays can damage cables and injure installers. All rounded edges on GridRunner™ Wire Basket sections eliminate the possibility of damaging cables during the initial installation, ensuring cabling integrity and network reliability. Snap-in bend radius control corners protect cabling from physical damage when routed around directional changes encountered in underfloor systems.

Integral Bonding and Grounding

Most underfloor cable pathways require bonding or grounding jumpers to ensure the system provides a continuous ground path. The integral bonding feature of the GridRunner™ System ensures that all components are electrically bonded to each other as they are installed. This ensures full continuity between system components to protect equipment and personnel. It also reduces cost by eliminating the need for extra grounding components and the time required to install them.

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3
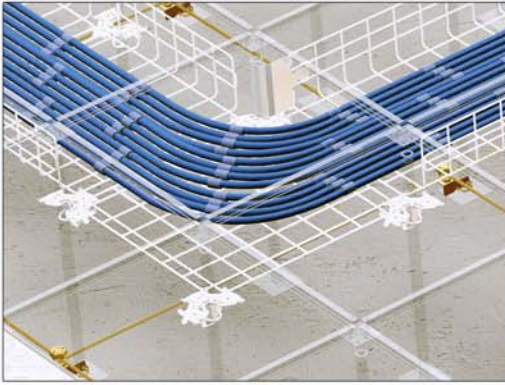
1 Drop-In Wire Basket Sections
- All rounded edges protect cables from damage and installers from injury
- Twelve sizes to provide optimum design flexibility and system scalability
- Wire basket sections provide capacity for high-density applications

2 Offset Wire Basket Sections
- Position 12" wide basket to one side
- Provide greater access to area beneath the pathway system for more efficient utilization of underfloor space
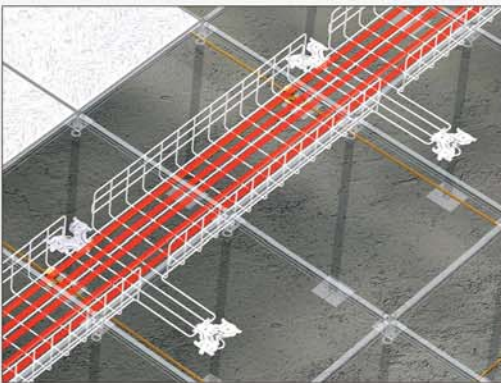


3 Versatile Pedestal Brackets
- Electrically bond to the pedestals and wire basket sections creating a continuous ground path to protect equipment and personnel
- Assemble at any height on the pedestal with a single tool for fast, easy installations
- Rotating support plate allows wire basket sections to be easily adapted to square pedestals that are not square to the raised floor grid reducing installation time
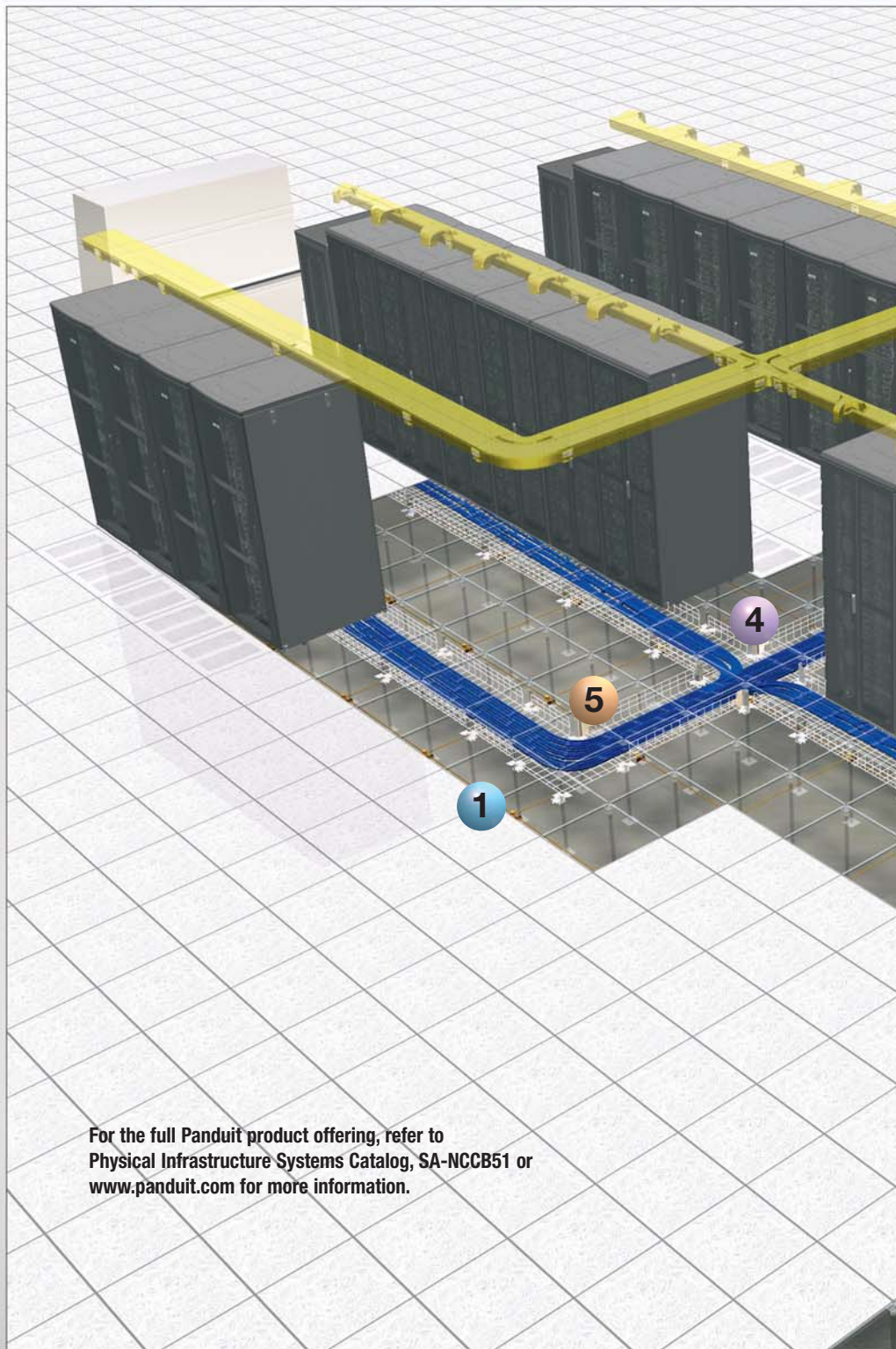
For the full Panduit product offering, refer to Physical Infrastructure Systems Catalog, SA-NCCB51 or www.panduit.com for more information.

4 Universal Intersection
- Creates horizontal directional changes eliminating the need to field fabricate fittings for reduced installation cost
- Single component design simplifies specification and ordering
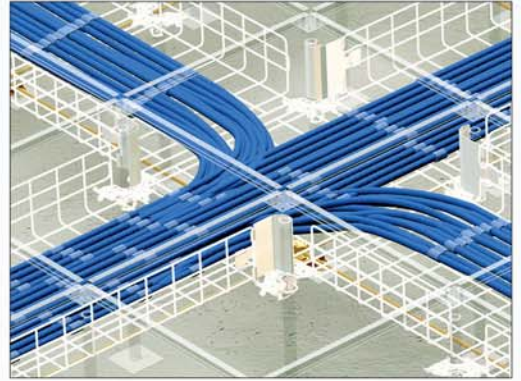
5 Bend Radius Control Corners
- Protect cables from physical damage enhancing network reliability
- Quick snap-in design eliminates need for tools or fasteners
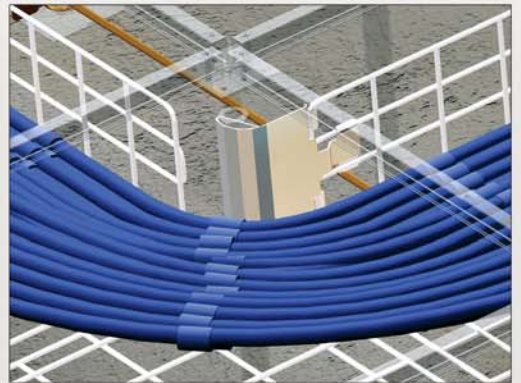
6 Adjustable Level Change Section
- Single component design enables up to 12" vertical directional change to increase installation flexibility
- Telescoping design eliminates need for cutting and field fabrication reducing installation time

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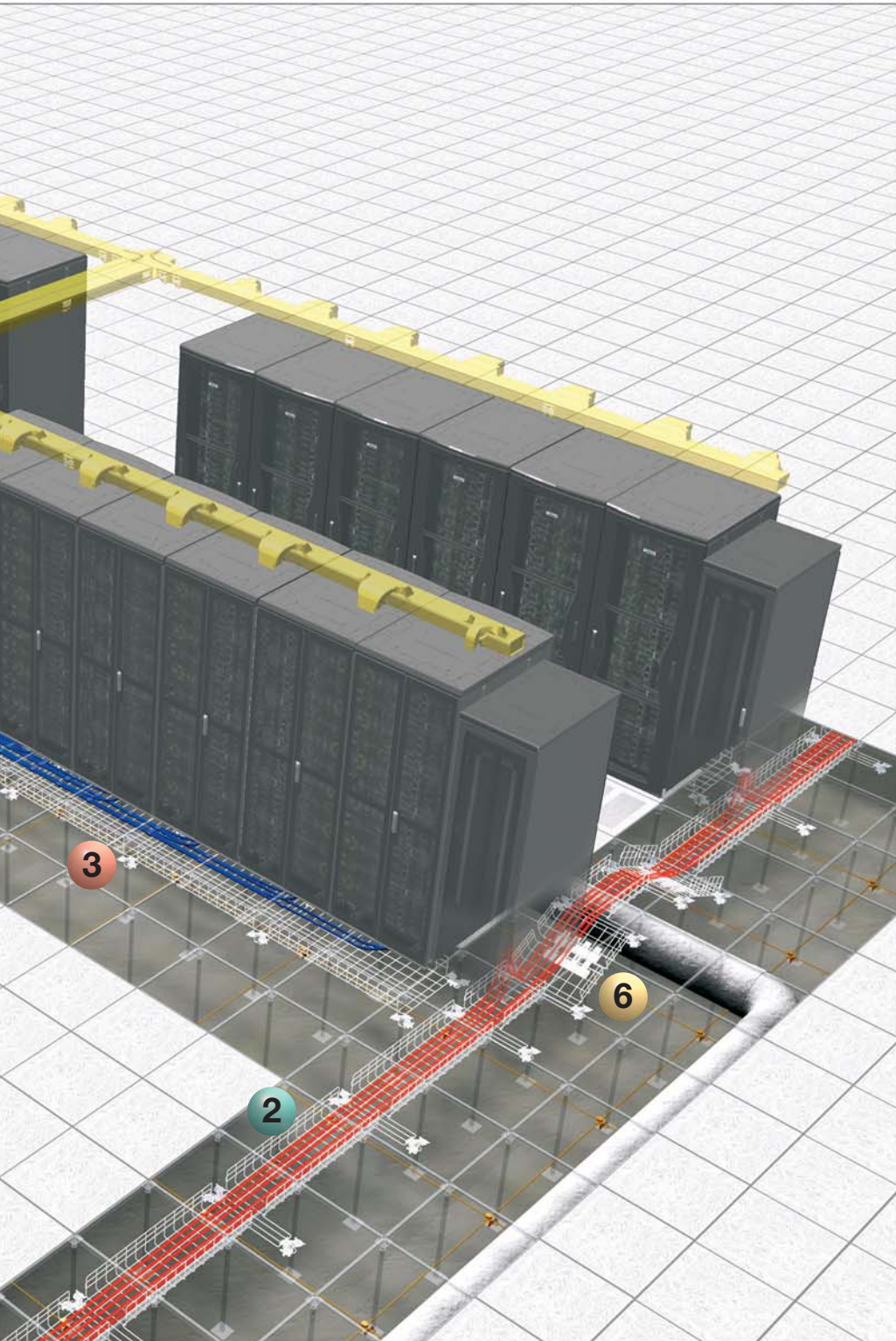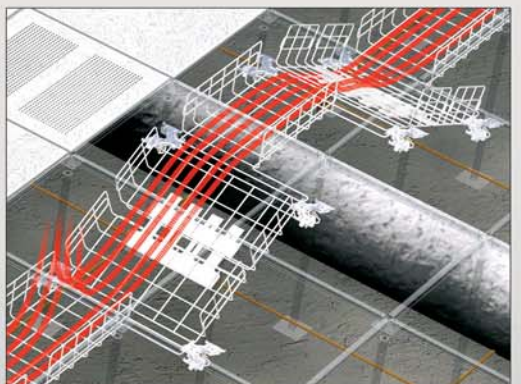
GridRunner™ Underfloor Cable Routing System Components

Cable Fills for Grid-Runner™ Underfloor Cable Routing System
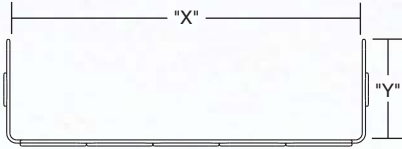
| "X"	"Y"	Internal Area	Category 6A (SD) Diameter 6.1mm 0.24"	Category 6A Diameter 7.6mm 0.30"	Category 6 Diameter 6.1mm 0.24"
			50% Fill	50% Fill	50% Fill
12.0	4.0	48.0 in²	531	340	531
12.0	6.0	72.0 in²	796	509	796
21.7	4.0	86.8 in²	959	614	959
21.7	6.0	130.3 in²	1440	922	1440

The above cable dimensions represent the nominal Panduit cable diameter per performance level.
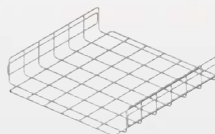
GridRunner™ Wire Baskets

- Drop-in wire basket sections are supplied in two widths (21" and 12"), two depths (4" and 6"), and two lengths (24" and 48")
- Feature all rounded edges

- Require no cutting or deburring of sharp edges
- Accommodate 24" x 24" and 600mm x 600mm raised floor grids
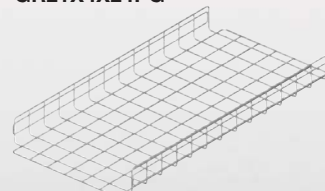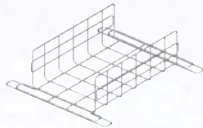- Made from pre-galvanized steel wire
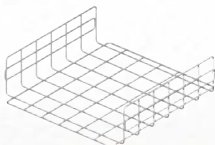
GR21X6X24PG
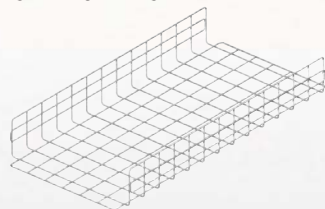
GR21X6X48PG

GR21X4X24PG

GR21X4X48PG

Part Number	Part Description	Std. Pkg. Qty.*
21" Wide Wire Basket Sections		
GR21X6X24PG	21" wide x 6" deep x 24" long section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR21X6X48PG	21" wide x 6" deep x 48" long section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR21X4X24PG	21" wide x 4" deep x 24" long section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR21X4X48PG	21" wide x 4" deep x 48" long section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2

*Order number of pieces required, in multiples of Standard Package Quantity.
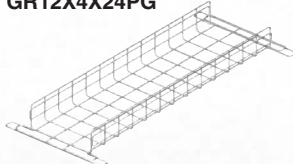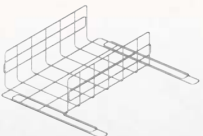
GridRunner™ Wire Baskets (continued)
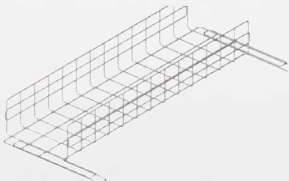
GR12X6X24PG

GR12X6X48PG

GR12X4X24PG

GR12X4X48PG

Part Number	Part Description	Std. Pkg. Qty.*
12" Wide Wire Basket Sections		
GR12X6X24PG	12" wide x 6" deep x 24" long section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR12X6X48PG	12" wide x 6" deep x 48" long section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR12X4X24PG	12" wide x 4" deep x 24" long section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR12X4X48PG	12" wide x 4" deep x 48" long section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2

*Order number of pieces required, in multiples of Standard Package Quantity.

GR12X6X24OSPG

GR12X6X48OSPG
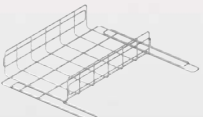
GR12X4X24OSPG
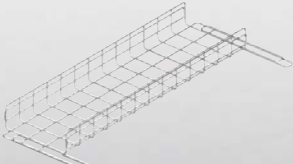
GR12X4X48OSPG

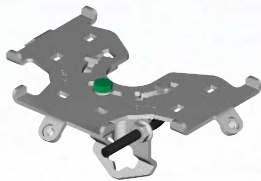| Part Number	Part Description	Std. Pkg. Qty.*
12" Wide Offset Wire Basket Sections		
GR12X6X24OSPG	12" wide x 6" deep x 24" long section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR12X6X48OSPG	12" wide x 6" deep x 48" long section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR12X4X24OSPG	12" wide x 4" deep x 24" long section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2
GR12X4X48OSPG	12" wide x 4" deep x 48" long section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	2

*Order number of pieces required, in multiples of Standard Package Quantity.

GridRunner™ Pedestal Bracket

- Allows the wire basket sections to be supported on three sides of a single support bracket
- Forms a mechanical electrical bond to the raised floor pedestal
- Optimized for use with both 7/8" square and 1" diameter raised floor pedestals
- Made from pre-galvanized steel

GRPBPG

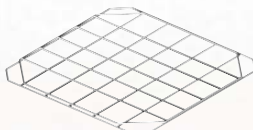| Part Number	Part Description	Std. Pkg. Qty.*	Std. Ctn. Qty.
Pedestal Bracket			
GRPBPG	Pre-assembled bracket quickly attaches to all 7/8" square and 1" diameter raised floor pedestals. Provides secure mounting point on three sides of the pedestal for all basket sections and an electrical bond to the pedestal. Use 7/16" nut driver to assemble to pedestal. Requires use of pedestal clamp GRCLAMPPG-X to attach wire baskets, universal intersection, and level change sections to pedestal bracket.	1	10
Pedestal Clamp			
GRCLAMPPG-X	Used in conjunction with pedestal bracket GRPBPG to fasten wire basket sections to the pedestal.	10	100

GRCLAMPPG-X

*Order number of pieces required, in multiples of Standard Package Quantity.
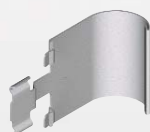
GridRunner™ Accessories

GRFWC21PG

GRBRC6PG

GRBRC4PG

GRLC21X6PG

GPQC1/0

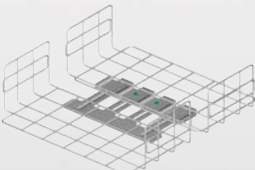| Part Number	Part Description	Std. Pkg. Qty.*	Std. Ctn. Qty.
Universal Intersection			
GRFWC21PG	Mounts to GRPBPG pedestal bracket. Use to create four way cross, horizontal tee, right angles and transitions to other size basket sections. Use 7/16" nut driver to assemble.	1	—
Bend Radius Control Corners			
GRBRC6PG	Bend radius control corner for 6" deep basket sections. Snaps into corners to provide 1.5" (38mm) bend radius control. Sheet metal construction.	1	10
GRBRC4PG	Bend radius control corner for 4" deep basket sections. Snaps into corners to provide 1.5" (38mm) bend radius control. Sheet metal construction.	1	10
21" Wide Level Change Sections			
GRLC21X6PG	21" wide x 6" deep level change section used to create vertical offsets up to 12". Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor support pedestal.	1	—
GRLC21X4PG	21" wide x 4" deep level change section used to create vertical offsets up to 12". Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor support pedestal.	1	—
Access Floor Grounding Clamp			
GPQC1/0	Access floor grounding clamp accepts up to two conductors in sizes #6 -1/0 AWG; 3.5" (88.9mm) length, 1.75" (44.5mm) width, 3.5" (88.9mm) height; works with 3/4" (19.1mm) to 7/8" (22.2mm) square and 3/4" (19.9mm) to 1" (25.4mm) round pedestals.	1	10

*Order number of pieces required, in multiples of Standard Package Quantity.

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Design Tools

The GridRunner™ Underfloor Cable Routing System is offered with two different design tools that allow accurate system drawings to be created which speeds overall system design, specification, and implementation.

**Data Center VISIO* Layout Tool includes:**
- Drag & Drop Functionality
- Ability to design in 2D (stencils for three different views are provided)
- Automated BOM Generator
- Free download from www.panduit.com/gridrunner/visio

GridRunner™ Design Tool for AutoCAD** includes:
- Drag & Drop Functionality
- Ability to design in 2D and 3D
- Versions compatible with AutoCAD** and AutoCAD LT**
- Automated BOM Generator
- Available on CD, SA-FRCD02 free through Customer Service

*VISIO is a registered trademark of Microsoft Corporation in the United States and/or other countries.
**AutoCAD and AutoCAD LT are registered trademarks of Autodesk, Inc.
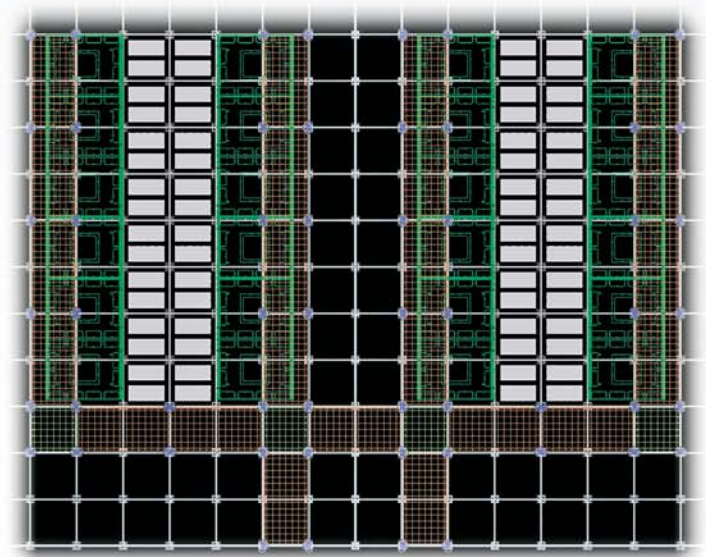
Standards Compliance

Classification to these standards helps ensure both electrical safety and loading performance safety of the GridRunner™ Underfloor Cable Routing System for those individuals working in and around the system.

UL Underwriters Laboratories, Inc. Underwriters Laboratories, Inc. is an independent, not-for-profit safety testing and certification organization based in the United States.	UL Classified as an Equipment Grounding Conductor Classification to this standard provides a 100 maximum fuse ampere rating, circuit breaker ampere trip setting, or circuit breaker protective relay ampere trip setting for ground-fault protection of any cable circuit within the wire basket system. This system provides a bolted mechanical bond between system components eliminating the need for bonding jumpers between wire basket sections.
NEMA National Electrical Manufacturers Association NEMA provides a forum for the standardization of electrical equipment, enabling consumers to select from a range of safe, effective, and compatible electrical products.	NEMA VE1/CSA 22.2 (Metal Cable Tray Systems) Certification to this standard ensures that electrical continuity exists between wire basket sections when connected to the pedestal bracket clamping mechanism complying with the electrical resistance requirements of the standard. Furthermore, the load rating has been identified ensuring the wire basket sections will not fail when utilized for its intended application. Reference UL File #E316431.
CSA Canadian Standards Association Canadian Standards Association is a not-for-profit membership based association serving business, industry, government, and consumers in Canada and the global marketplace. CSA works in Canada and around the world to develop standards that enhance public safety and health.	
RoHS	All GridRunner™ Underfloor Cable Routing System components are RoHS compliant.

Real-World Solutions

*With a proven reputation for excellence and innovation, Panduit and our partners work with you to overcome challenges and implement real-world solutions that create a competitive business advantage. Panduit offers the broadest range of solutions, from data centers and intelligent buildings to manufacturing operations, to help you build a **smarter, unified business foundation.***

Technology Leadership

Panduit develops innovative physical infrastructure solutions that meet the rapidly changing needs of our clients, from hardware and software to advisory services. This commitment is supported by investment in advanced research, solutions-focused product development, world-class manufacturing, and collaboration with customers at the forefront of technology.

Partner Ecosystem

Our best-in-class partner ecosystem offers a comprehensive portfolio of services that span the project lifecycle, from planning and design to delivery, deployment, maintenance, and operation. Panduit business partners – distributors, and certified architects, consultants, engineers, designers, system integrators, and contractors – are qualified to help you achieve your objectives and realize predictable and measurable results.

Strategic Alliances

Panduit cultivates long-term strategic alliances with industry leaders, including Cisco Systems, EMC, IBM, and Rockwell Automation, to develop, optimize, and validate solutions for our customers. This investment in people and resources helps solve our customers' greatest business challenges.

Global Business Commitment

Panduit is committed to delivering a consistently high level of quality and service the world over. With a presence in more than 100 countries, local Panduit sales representatives and technical specialists offer guidance and support that bring value to your business. Our global supply chain, which includes manufacturing, customer service, logistics, and distribution partners, provides prompt response to your inquiries and streamlines delivery to any worldwide destination.

Sustainability

With a commitment to environmental sustainability, Panduit develops and implements solutions that protect, replenish, and restore the world in which we live. This commitment is demonstrated by Panduit's LEED Gold certified World Headquarters, leveraging the Unified Physical Infrastructure[SM] approach to enable convergence of critical building systems to drive energy efficiency and ongoing operational improvement.

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