

Panduit Pathways System Daniel Chynoransky



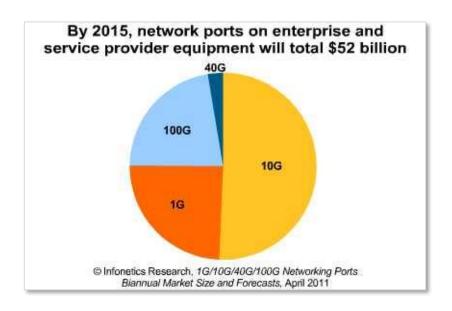
Agenda

- Cable Pathway Trends
- FiberRunner Fiber Optic Cable Pathways
- Wyr-Grid Overhead Cable Pathways
- Competitive Advantage
- Sales Strategy



Trends – Increasing Data Transmission Rates

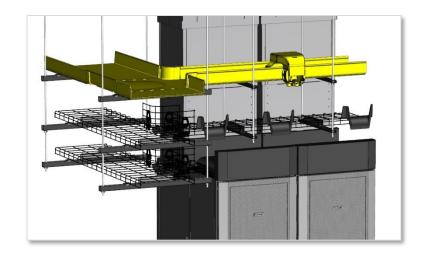
- Business Impact
 - More time required to ensure cables are protected from physical damages
 - Higher potential for call backs and connectivity troubleshooting





Trends – Cable Routing Moving Overhead

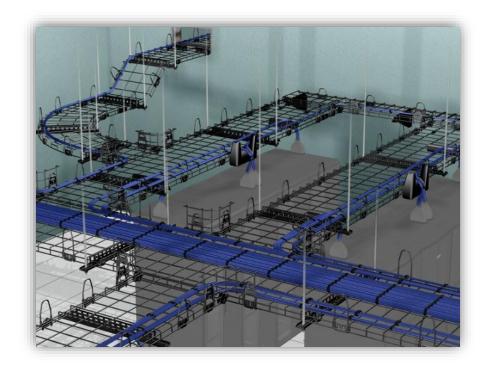
- Business Impact of multitier/overhead development
 - More time required to install multiple tiers in constricted spaces
 - Complicated designs increase engineering and detailing costs





Trends – Flexibility / Versatility / Aesthetic

- Business Impact
 - Reduce engineering and specification time to accommodate diverse designs
 - Improve aesthetics to enhance business development





Target Applications

- Data Centers
 - Enterprise Data Centers
 - Large Complex Data Centers
 - DCSP Retail Co-Location
 - DCSP Hosted Cloud
- Enterprise
 - Telco Rooms
 - Throughout the Enterprise







Typical Cable Pathway Application Needs

EDI Target Segment	Offering	Application
Enterprise Data Center		Comprehensive Offering Deployed Through-out Whitespace
Large Complex Data Center	FIBERRUNNER	 Install - Integrates with Cabinets & Containment Need to Adapt to Various Infrastructure
DCSP Retail Colo		
DCSP Hosted/Cloud	Wyr-Grid	 Accommodates High Cable Densities in Main Runs Fast Installation Time Adapt to Competitive Systems
Telco Room		AvailabilitySimple Installation
Enterprise	Wyr-Grid	 Versatility – Same system can be used through-out Reduce Installation Time Cost Effective



Who Cares? Who makes the buying decision?



Persona

End User / Facility Manager / IT

- Decision maker
- Responsible for infrastructure lifecycle management

Infrastructure Engineer / Consultant

- Key Influencer or responsible for specification
- Often has design control

Contractor

- Influencer
- Often responsible for cable tray selection

Procurement

- Influencer
- Focus more on cost of materials than features



FIBERRUNNER Cable Routing System Benefits

Why do your customers care?

- Reduces installation labor costs by 50% compared to competitive fiber optic ducting systems
- Protect fiber optic cables maximizing long term performance and reduced risk
- Provides scalability and design versatility for data center applications

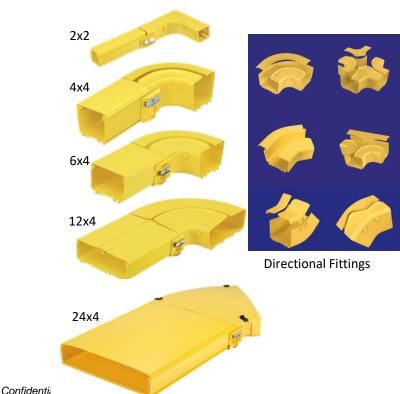






Capacity, Design Flexibility & Reduced Installation

- 5 Channel Sizes Provide Capacity for High and Low Density Applications
- Range of Fittings, Brackets & Spill-Outs adapt system to any structure
- Offered in Fiber Yellow, Black & Telco Orange
- Integral Bend Radius Control and Snap-On Covers Provide Maximum Cable Protection





Competitive Review

Competitor	Strength	Weakness
Commscope – ADC FiberGuide	Comprehensive OfferingLSZH ClaimChannel Presence	Weak marketing approachWeak focus on channelLonger Install Time
R&M Fiber Optic Raceway (Riechle & De Massari)	LSZH ClaimLow Cost Offering	Does not offer brackets*Longer install time
Warren & Brown	LSZH ClaimLower Cost	Difficult to AssembleWeak focus on Channel

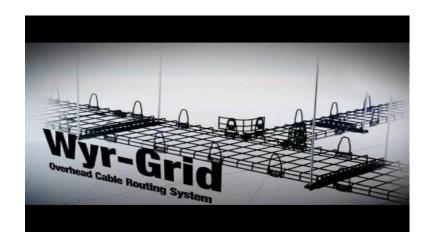






^{*} Possible partnership with OBO Betterman

Wyr-Grid Overhead Cable Pathway System

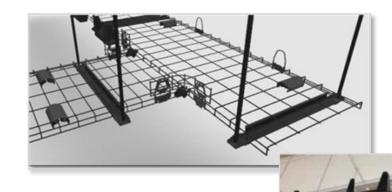




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Wyr-Grid Overhead Cable Pathway Benefits

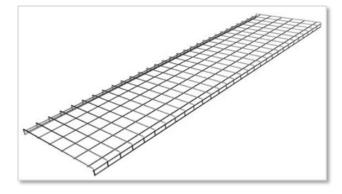
- Reduces installation labor costs by 50% compared to traditional wire basket and ladder rack systems
- Versatile systems adapt to any telco, building, or data center environment





Design Flexibility Features

- Available in 5 widths
 - -8" (20 cm)
 - 12" (30 cm)
 - 18" (45 cm)
 - 24" (60 cm)
 - 30" (76 cm)
- 10ft (3m) standard length
- Black and ElectroZinc finishes





Reduced Installation Time Features

- Splice connectors quickly to join two sections of straight pathway
- Mechanically bonds pathways together





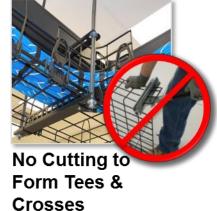
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Reduced Installation Time Features

Snap-on Accessories

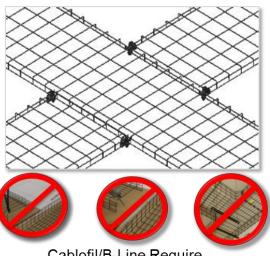






Reduced Installation Time Features

- Intersection splice quickly joins pathway sections without any cutting
- Mechanically bonds pathway sections



Cablofil/B-Line Require
Excessive Cutting
Strength is Reduced
Requires Loose Hardware
Leaves Sharp Edges In Pathway



Risks of Using Traditional Wire Baskets

 Competitive baskets leave exposed sharp edges at cable exits and intersections









Competitive Review

Competitor	Strength	Weakness
Legrand – Cablofil Wire Basket Tray	 Global leader / Strong Disty Comprehensive Line Strong Spec Position 	Weak focus on DCLonger Installation time
OBO Betterman	Comprehensive LineStrong Spec PositionLadder Rack / Wire Basket	Weak focus on DCLonger installation timeNo connectivity offering
Local / Regional Suppliers	Lower CostRelationship	Weak focus on DCLonger installation timeNo connectivity offering











Speed System Design & Specification

Complimentary Design Tools Provide:

- Drag & Drop part functionality
- BOM Generator

Design tools available for the following...

- AutoCAD Design in 2D or 3D
- Visio 2D Design Tool
- BIM shapes For AutoDesk Revit Tool (on AutoDesk SEEK website)









Sales Strategy

- What is your installation time frame?
- What happens if your cables are damaged by the pathway?
- How do you plan to accommodate multiple pathways?
- How important are data center aesthetics?







PIA – Hook & Loop Cable Ties

What's In It For You?

- Easily Add \$\$\$ per Project
- Avg. of 100 Ties per 100' Cable Bundle
- Low Touch / High Margin





Primary Applications



Managing &
Grooming Cable
Bundles on
Pathways

Managing Cables in High Density Rack Applications





Opportunity Overview

- Used In Virtually All Cabling Projects
- User Benefits
 - Comprehensive Assortment
 - Availability
- Distributor Benefits
 - Easy "Add-On" Sale
 - High Margin / Low Touch





Hook & Loop Tak-Ty Rolls – HLS5S-X0 & HLM-15R0

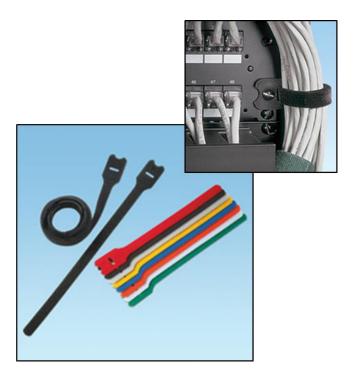
- Continuous (Cut-to-length)
 Rolls
- Perforated Rolls for Pre-Determined Bundle Sizes
- Multiple Colors
- Standard 20mm Width has 50 lb. Loop Tensile Strength
- Available in 8mm width with 40 lb. Loop Tensile Strength





Hook & Loop Tak-Ty Ties – HLT-21X0

- Premium Grade Product Suitable for 100 cycles
- Slot Allows for Pre-Wrapping of Bundles
- "X" for Screw Fastening of Ties
- Available in 200mm and 300mm
- Multiple Colors





Hook & Loop Plenum Tak-Ty HLTP21-X12 & HLSP21-X12

- UL Listed for use in air handling spaces such as above suspended ceilings or under raised floors
- UL94V-2 flammability rating
- Standard or perforated rolls, or die cut tie shape
- Available in 200mm and 300mm lengths, and in black or maroon





Hook & Loop Tak-Tape Rolls – TTS-35R0

- Cost effective product suitable for 30+ cycles
- Thin and flexible product for general bundling
- Available in 20' or 35' cut-to-length rolls
- Black only NO plenum rating
- Standard ¾" width has 40 lb. loop tensile





Hook & Loop Ultra-Cinch UCT3S-X0 & UGCT3S-X0ies)

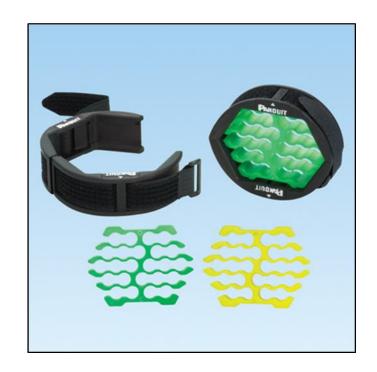
- Unique material Hooks and loops on same side
- Available with or without brass grommet
- Multiple colors
- Standard ¾" width
- Available with "write-on" area or custom printed





Network Cable Ties CBOT Installation Device - CBOT24K

- Organize up to 24 Cables per Bundle
- Decrease Installation Time by 50%
- Accommodate a Wide Range of Data Cable Diameters
- Smooth Edges Prevent Cable Abrasion

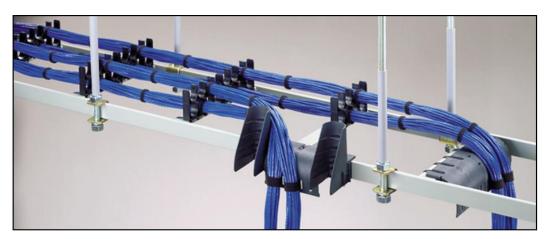




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Ladder Rack Accessories

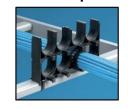
Ladder Rack Accessories



Threaded Rod Cover



Cable Rack Spacers



Waterfall Products





Sales Tools

- Sample Bags
- Bulletins
- On-Line Drawings
- NCG and EG Printed Catalogs
- What Else can we Provide??

