

# TrueNet®

Fibre Optic Connectivity and Cable Management Solutions



High Density Data Connectivity Solutions for Every Network.



## Building for Bandwidth

In large and small organisations around the world, the need for more bandwidth is straining networks and data centres. From businesses to schools, and hospitals to government agencies, new technologies and advanced business requirements mean rethinking your entire enterprise infrastructure.

At ADC KRONE, we call it building for bandwidth.

We are seeing an exponential increase in the proliferation of bandwidth-hungry applications. Never before have data networks been under such pressure to keep up with the times. As a result, fibre optic technology is increasing in the data centre, as it offers higher density and a smaller footprint than copper connectivity.

Further, fibre offers higher connection speed and reliability.

### In this brochure

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Building for Bandwidth .....	2	Fibre Optic 1RU Plastic Fibre Patch Panel .....	13
TrueNet Fibre Panels and Wall Boxes .....	4	Fibre Management Trays .....	14
TFP Series Rack Mount Fibre Panels.....	6	FL1000 System .....	16
FL2000 System .....	8	OMX High Density System .....	17
FPL Series Fibre Optic Panel .....	10	NGF Next Generation Frame, High Density.....	18
LKH Series Sliding, Fixed & Hinged Patch Panels .....	12	FiberGuide® Fibre Management Systems .....	19



## Data Centre-Grade Infrastructure Solutions

The data centre is the hub of most organisations. But it's surprising how little thought is typically given the physical layer of the data centre: the network infrastructure. Considering that your network infrastructure most likely will support three generations of active equipment, or 10-20 years, more care should be given to the choices made at the all-important physical layer. This is especially true when you consider that 70% of network downtime can be attributed to physical layer problems, specifically, cabling faults.

Indeed, millions of dollars can be lost in a matter of minutes if networks go "down." With this much at stake, and the fact that your physical layer expense is just 5-10 percent of your data centre investment, why would you even consider a structured cabling solution that is not true data centre-grade.

ADC KRONE has a long history of delivering high-speed, high-bandwidth, communication networks for large institutions. These high-reliability enterprise networks have infrastructures that perform to the multi-gigabit technologies. This experience is built into every TrueNet system component.

## ADC KRONE's Fibre Solutions

In the backbone or to the desk, optical networks achieve peak performance with ADC KRONE's fibre panels, connectors, patch cords and raceways featuring integrated cable management and bend radius protection.

Proper cable management practices make fibre networks less susceptible to accidental damage, quicker to install, less expensive to own and operate over the long haul and easier to expand as needs grow. To assure optimal network performance, ADC KRONE's fibre solutions fully incorporate key cable management concepts:

- Bend radius protection: Micro or macro-bends in fibre cable increase the risk of fibre breakage and added attenuation, which in turn affect the long-term reliability of the network and increase the cost of operations.
- Adequate cable troughing with clear routing paths: Cable troughing should keep fibre runs separate from heavier copper cables. Routing paths through the cable troughs should be clearly defined and easy to follow, making access to individual fibres easier, quicker and safer, reducing the time required for reconfiguration.
- Easy accessibility to installed fibres: Access to installed fibres should ensure that any fibre can be installed or removed without inducing improper bends on adjacent fibre. Accessibility is most critical during network reconfiguration operations and directly impacts the cost of operations and reliability of the network.
- Vertical cable protection: Proper vertical cable management in panels or equipment bays provides adequate support, cable protection and a transition from the vertical run to the back of the equipment that does not damage the fibre.

# TrueNet® Fibre Panels and Wall Boxes

TrueNet® Fibre Optic Connectivity and Cable Management Solutions

	TFP	FPL	FL2000	FMT	LKH
Sizes available (standard LC connectors)	48, 96, 288	24, 48, 72, 96, 144, 288	36, 72, 144	12, 16, 24, 32, 72	24, 48, 72, 96, 144
Wall Mount	No	No	Yes	Yes	No
Rack Mount	19"/23"/ETSI	19"/23"/ETSI	19"/23"/ETSI	19"/23"/ETSI	19"
Cabinet Mount	Yes	Yes	Yes	Yes	Yes
Interface Type	Angled Adaptor Pack	Fixed Bulkhead	6 position FL2000 Adaptor Pack	Sliding Adaptor Pack/ Fixed Bulkhead	6 position LKH Adaptor Pack
Degree of Cable Management	Moderate	High	Moderate	High	Fair
Allows additional growth	Ideal	Fair	Ideal	Fair	Fair
LC Compatible	Yes	Yes	Yes	Yes	Yes
Quad LC Compatible	Yes	No	No	No	No

## Best Applications for TrueNet Fibre Panel Portfolio

Name of Product	Best Application	Features at a Glance
TFP	Rack or Cabinet mount near servers, switches, routers and SANs	Angled left/right adaptor packs, highest density with maximum cable management
FPL	High density termination only or termination/splice applications where limited growth after installation is expected	High level cable management rear access, removable front angled retainers
FL2000	Termination/Splice applications	Locking or latching door, within panel splice wheel, all front access, modular left angle 6paks
FMT	Near active equipment where termination storage is required in 1 or 2 rack unit footprint	Completely enclosed drawer with easy access to fibre and high cable management and bend radius protection
LKH	Rack low density applications	Compact and modular with features price comparable to competitors' products
Plastic panel	Low density, low cable management applications	Integrated internal management, sliding front access
FL1000	Wall mount applications of FL2000	Modular FL2000 adaptor plates, compact design, locking capability

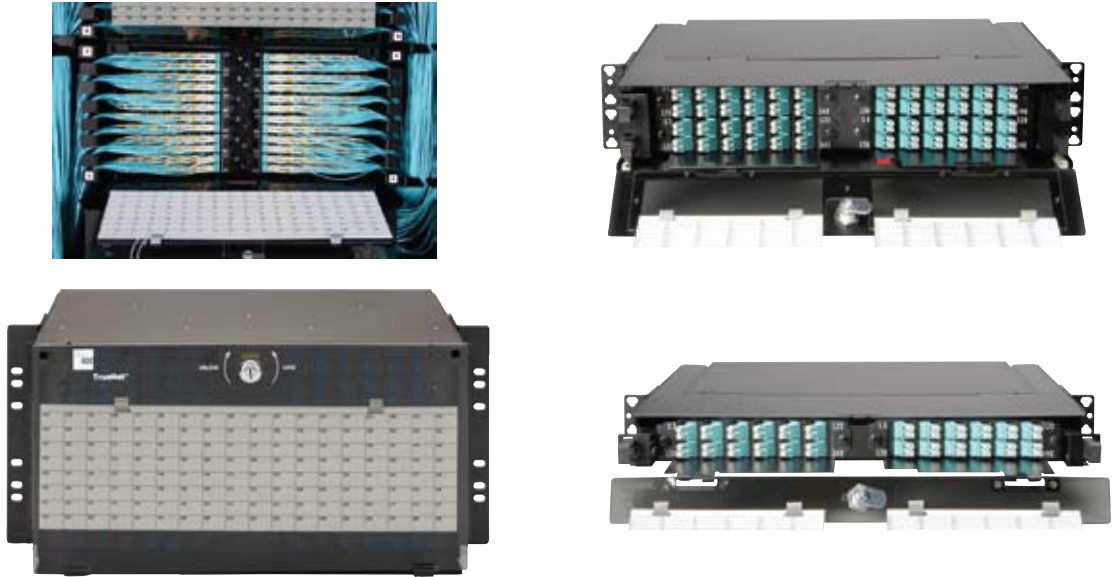


Plastic Panel	FL1000
12, 24	24, 48, 96, 144
No	Yes
19"	No
Yes	No
Fixed Bulkhead	6 position FL2000 Adaptor Pack
Low	Moderate
No	Ideal
Yes	Yes
No	No



*Fibre optic technology offers higher density and a smaller footprint than copper connectivity; higher connection speed and reliability.*

# TFP Series Rack Mount Fibre Panels



ADC KRONE's TFP Series rack mount fibre panels are an integral part of the TrueNet® Fibre product portfolio. The TFP Series fibre panels can be ordered in one, two and five rack unit sizes and are completely modular to configure to a variety of applications. The unique modular adaptor packs incorporate ADC KRONE's angled adaptor design to allow easy access to each port and superior cable management and bend radius protection.

## Features

- TFP panels combine the unique features of vertical cable guides and angle-left/angle-right adaptors, offering bend radius protection, intuitive routing and easy connector access
- Rear access makes field termination or splicing fast and efficient. 1U and 2U versions feature convenient sliding access to terminations and splicing
- Sold separately for maximum flexibility with minimum lead time, TFP series adaptor packs can also be pre-configured at the factory for more efficient service turn-up
- 288-position high-density termination/splice in the space of just five rack units
- Panels are equipped with adjustable mounting brackets to provide either 19- or 23-inch rack or cabinet mounting
- Field-installable vertical cable guides on either side of the panel provide bend radius protection and management of fibres exiting the panel

## Applications and Benefits

- Best suited for rack or cabinet mounting in Horizontal and Equipment Distribution Areas
- Modularity, functionality and density make the TFP ideal for mounting in close proximity to servers, switches, routers and SANs

## Product Overview

Recommended Applications	Multi-purpose high density modular solution ideal for cabinet or rack mount applications near servers, switches, routers and SANs
Description	Termination, termination/splice
Chassis sizes (in rack units)	1, 2, and 5
Termination only capacity using: Simplex adaptors	24, 48, 144
Duplex adaptors	24, 48, 144
Small form factor (LC)	48, 96, 288
Flexibility/ability to grow	Ideal for growth
Interconnect	Yes
Cross-connect	Yes
Accommodates on-frame splicing	Yes, built-in
Rear access	Yes
All-front-access No Customer premises application	Ideal
19" mounting	Yes
23" mounting	Yes
Cabinet mount	Yes
Wall mount	No
Mix equipment with Fibre product?	Ideal
Vertical cable guide	Ships with every panel
Features at a Glance	Angled left/right adaptor packs, highest density with maximum cable management features

TrueNet® Fibre Optic Connectivity and Cable Management Solutions



# FL2000 System



FL2000 termination only chassis



FL2000 termination/splice chassis

The economical and flexible FL2000 series of fibre optic products is ideal for small fibre counts and can be used in moderate fibre count applications as well as combining various panels.

## Features

- Designed for 19-inch (48.26cm) EIA rack or cabinet environment; optional brackets are available to accommodate 23-inch (58.42cm) rack or cabinet mounting, or virtually any mounting application
- Modular design offers maximum flexibility to satisfy both current needs and future growth requirements
- A full line of options and accessories ensures compatibility with existing optical equipment
- All FL2000 panels accommodate the modular FL2000 6pak plug-ins. 6paks are available in all connector styles and can be ordered as needed
- ADC KRONE's patented removable angled retainers allow easy access for single fibre maintenance
- FL2000 panels feature superior vertical cable protection and management
- Rack mount panels are hinged on one side, allowing full access to the rear of the front plate and the interior of the panel
- Panels can be wall mounted
- The new FL2000 splice wheel allows easy roll-up of pigtail and buffer tube lengths and superior bend radius protection

## Applications & Benefits

- Fully adaptable for medium or small count fibre main distribution frame (MDF) or telephone closets for both wall and rack mount applications
- Provides termination, splicing and storage capabilities for in-building cables, outside plant cables and active equipment fibre patch cords

## Product Overview

Recommended Applications	Multi-purpose modular solution ideal for cabinet, rack or wall mount applications. Ideal for small to medium fibre counts.
Description	Termination, termination/splice
Chassis sizes (in rack units)	1, 2, 3, 5, 6 (termination only chassis) 2, 3, 5, 8, 10 (termination/splice chassis)
Termination only capacity using:	
Simplex adaptors	12, 24, 48, 72, 96
Duplex adaptors	12, 24, 48, 72, 96
Small form factor (LC)	24, 48, 72, 144, 192
Flexibility/ability to grow	Ideal for growth
Interconnect	Yes
Cross-connect	Yes
Accommodates on-frame splicing	Yes, built-in
Rear access	Not required
All-front-access	Yes
Customer premises application	Ideal
19" mounting	Yes
23" mounting	Yes
Cabinet mount	Yes
Wall mount	Yes
Mix equipment with Fibre product?	Ideal
Vertical cable guide	Ships with every panel
Features at a Glance	Locking or latching door, within panel splice wheel, all front access, modular angle left 6paks

# FPL Series Fibre Optic Panel



5RU 144-position Panel



1RU 24-position Panel

ADC KRONE's FPL series provides industry-leading fibre cable protection and management. The panel utilises an internal splicing system that creates a compact, feature-rich, high-density solution. FPL achieves densities of 48 fibre terminations/splices in 1RU and 288-terminations/splices in 5RU using LC connectors. These densities are attained while utilising ADC KRONE's angled adaptors to ease cable access, protect bend radius and provide individual fibre access. Vertical cable guides on either side of the panel allow for managed routing and protection of the fibre entering and exiting the panel. The FPL's wide range of features and options are designed for your networks' growing needs.

Panels are equipped with adjustable mounting brackets to provide either 19- or 23-inch rack mounting with either four or five-inch recess mounting. The panel is available pre-terminated with pigtails or IFC cable to simplify ordering and reduce installation time. ADC KRONE's removable angled retainers allow for easy access for single fibre maintenance. Vertical cable guides on either side of the panel provide fibre routing and management of fibres exiting the panel. Using LC small-form-factor connectors doubles the capacity of each panel.

## Product Overview

Recommended Applications	High-density termination/splice panel solution. Often used in small wire closets or frames. Ideal for small to medium fibre counts. 288-fibre terminations in 8.75" (22.2cm) H or 48-fibre terminations in 1.75" (4.4cm) H (LC connector)
Description	288-fibre terminations in 8.75" H or 48-fibre terminations in 1.75" (4.4cm) H (LC connectors)
Number of fibres, future growth potential	12 to 288
Flexibility/ability to grow	Yes
Interconnect	Ideal
Cross-connect	Yes
Accommodates on-frame splicing	Yes, built-in
Accommodates off-frame splicing	Yes, IFC cable and assembly available
Rear access	Required on panels greater than 1RU
All front access	No. (All panels are rear access with the exception of the 1RU panel)
Customer premises application	Ideal
19" mounting	Yes
23" mounting	Yes
Cabinet mount	Not recommended. (See FMT)
Wall mount	No
Mix equipment with Fibre product?	Ideal
Use as dedicated fibre frame	Not recommended
Optimum jumper storage location	IMP or separate storage panel required
Vertical cable guide	Includes VCG on both sides

## LKH Series Hinged Patch Panels



These patch panels are rack mountable. Available in 1RU, 2RU and 3RU configurations providing medium density of up to 72-port with SC/ST connectors or 144-port with LC connectors. These panels are supplied empty, adaptor plates and splice cassettes are ordered separately.

The hinged tray allows easy access for both installation and rework. Easily configured for right or left hand opening, they come complete with a patch cord guide.

Designed for rear or side cable entry featuring strain relief and cable tie points, they have a removable lid.



### LKH Series Sliding and Fixed Patch Panels

ADC KRONE Sliding and Fixed Fibre Patch Panels are ideally suited to low to medium density campus and backbone applications. These panels are 19" rack mountable and can be equipped for either 12-port or 24-port in one rack unit depending on the type of adaptor plates used. These panels are supplied empty, adaptor plates and splice cassettes are ordered separately.

# Fibre Optic 1RU Plastic Fibre Patch Panels

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The TrueNet® Fibre Optic 1RU Patch Panel from ADC KRONE is an integral part of the TrueNet system, providing a versatile and integrated approach to the management of optical patching. Constructed from a PC-ABS compound, the panel is both lightweight and robust.

These are provided with adaptors to simplify the ordering process, now with one part number for the complete product.

Available with multiple adaptor types for interfacing between old and new infrastructure builds including SC, ST and LC.

The 1RU high sliding panels offers ease of access and standard deployment into 19" racks. The internal cable management protects splices and pigtails from lateral damage whilst maintaining the bend radii for optimal data packet throughput.

TrueNet® Fibre Optic Connectivity and Cable Management Solutions



# Fibre Management Trays

ADC KRONE's Fibre Management Trays (FMT) provide a flexible, economical approach to handling your network's most vital elements by offering four different designs. Termination, termination/splicing, termination/storage, and slack storage designs are offered with ADC KRONE's modular, all-front-access design.

The FMT is ideal for cabinet applications.



## Sliding Radius Limiter

Sliding radius limiters provide ultimate fibre management by addressing one of the most critical elements of fibre cable management: bend radius protection.

By controlling the movement of fibres into the drawer, error-proof slack loop management is maintained, ensuring proper bend radius protection. This is crucial to protecting fibre, eliminating service failures and decreasing costs.



## Sliding Adaptor Pack

Sliding adaptor packs allow easy access for connecting jumpers and cleaning connectors, ensuring that any fibre can be installed or removed without disturbing adjacent fibres. That means a significant reduction in connector installation/reconfiguration time.

## Modular Design

ADC KRONE's modular design offers the value of a single interface for performing multiple tasks in your network. By employing a 1 or 2RU modular drawer, network technicians have familiar access to terminating, splicing and storing fibre. This cable management approach translates to time and money saved for moves, adds and changes.



## Product Overview

Recommended Applications	Small to medium fibre count application. Offers the secure fibre protection that comes with a drawer solution coupled with a high degree of cable management. Ideal for mixed use with active equipment in either frame or cabinet applications.
Description	Termination, termination/splice, slack storage
Chassis sizes (in rack units)	1, 2
Termination only capacity using:	
Simplex adaptors	32, 72
Duplex adaptors	n/a
Small form factor (LC)	32, 96
Interconnect	Ideal
Cross-connect	Yes
Accommodates on-frame splicing	Yes, built-in
Rear access	Not required
All-front-access	Yes
Customer premises application	Ideal
19" mounting	Yes
23" mounting	Yes
Cabinet mount	Yes
Wall mount	Yes, a wall mount kit is available
Mix equipment with Fibre product?	Ideal
Vertical cable guide	VCG available as separate item
Features at a Glance	Completely enclosed drawer with high degree of cable management and bend radius protection

# FL1000 System



ADC KRONE's FL1000 customer premises fibre termination products include a variety of one and two door wall mount panels. These products are designed specifically to act as part of the fibre distribution system as the demarcation point for the service provider at the customers location.

Recent improvements to labelling grommets, door latches and ribbon pigtail routing reinforce the value these products bring to the physical layer of any network with higher quality and reliability, greater operational efficiencies and network simplification.

## Product Overview

Recommended applications	Ideal for small to medium fibre counts within communication closets or demarcation points.
Description	One or two door wall box solution offering excellent fibre protection and technician-friendly cable routing. Termination or termination/splice boxes available
Termination only capacity using:	
Simplex adaptors	12, 24, 48, 72
Duplex adaptors	12, 24, 48, 72
Small form factor (LC)	24, 48, 96, 144
Flexibility/ ability to grow	Modular growth design
Demarcation	Yes
Accommodates in box splicing	Yes, built-in
All-front-access	Yes
Customer premises application	Ideal
Wall mount	Yes

# OMX High Density System

ADC KRONE's OMX600™ optical distribution frame is a high density, modular, front access optical distribution frame. It terminates and splices up to 576 fibres in a compact 600mm x 300mm footprint. Patented angled adaptor/retainers and cable management design protect cables and connectors while ensuring correct bend radii. The modular frame can be configured to include enhanced signal management functions such as splitters, couplers, and wavelength division multiplexers.



## High-Density

As the number of installed fibres grows, and the amount of available floor space diminishes, data centre operators and service providers need a frame that handles large amounts of fibre and conserves space.

The OMX 600 can terminate and splice up to 576 fibres in a 600mm x 300mm foot print.

## 600mm Footprint

The OMX 600 frame is 600mm wide and 300mm deep. Two frames can be mounted back-to-back to fill one 600mm x 600mm floor tile. The frame can also be mounted against a wall.

## Modular Design

The OMX 600 is a modular system that allows data centre operators and service providers to utilise one system for various optical distribution frame applications, depending on their needs and the needs of their customers.

## Total Front-Access Frame

The OMX 600 can be installed back-to-back or against a wall to save valuable office floor space.

Technicians have complete access to all fibre terminations and splices from the front of the frame.

## Superior Cable Management

The total front-access OMX 600 fibre frame protects cables and connectors through use of ADC KRONE's patented angled adaptors/retainers and bend radius protecting design.

# NGF

## Next Generation Frame, High Density

### Frames

ADC KRONE developed its innovative Next Generation Frame (NGF) for high-fibre count applications. At 2304 terminations in a single frame, its unique, user-friendly design and superior cable management provide enterprise customers an optimum solution to handle applications with high fibre counts such as data centres.

ADC KRONE's Next Generation Frame product line is designed to fit a variety of termination, splice, and storage applications. This frame is designed with an emphasis on superior cable management and ease of use, including features such as ample trough space for cable and jumpers, easy access to connectors, and storage for jumpers. The frame sections are shipped from the factory fully equipped with all cable management hardware including a built-in jumper storage panel.

### Fibre Termination Blocks (FTB)

Fibre Termination Blocks (FTBs) are available with SC adaptors in block configurations of 96- and 144-positions, and with LC adaptors in 144- and 192-positions. FTBs utilise sliding adaptor packs to gain easy access to both the front and rear connectors. There is also a block configuration available to accommodate Mini Value-Added Modules (Mini-VAMs) for applications requiring splitters or WDMs. FTBs can be ordered with adaptors only or with factory terminated IFC or outside plant cable.

### Fibre Combination Blocks (FCB)

Fibre Combination Blocks (FCBs) provide termination and on-frame splicing capabilities, all in one block. They are available with SC adaptors in block configurations of 96- or 144-positions, or with LC adaptors in 144- or 192-positions.

The NGF offers ample trough space, reducing jumper pile-up and congestion. The built-in Jumper Storage Panel minimises the number of required jumper lengths, maintains fibre bend radius and simplifies frame installation. The enclosed system ensures easy cable access without fibre crossover points.

Sliding adaptor packs promote high density and provide easy access to connectors which saves valuable floor space and reduces time required for operations and maintenance.

The intelligent cable routing system has no fibre crossover points. It has multiple vertical troughways which reduce maintenance time through easier removal and tracing of jumpers. It minimises fibre "weaving".

With bend radius protection at every turn, the NGF ensures network performance and reliability.



## Fibre Management Systems

The industry's most comprehensive optical raceway system ADC KRONE's FiberGuide® fibre Management Systems offer the greatest breadth of optical raceway products in the industry. In response to customer requirements, ADC KRONE continues to innovate and improve FiberGuide systems, adding greater flexibility and driving down installation time to ensure a smooth deployment.

FiberGuide is a raceway system designed to protect and route fibre optic patch cords, multi-fibre cable assemblies and intrafacility fibre cable (IFC) to and from fibre splice enclosures, fibre distribution frames and fibre optic terminal devices. FiberGuide ensures a two-inch (50mm) minimum bend radius is maintained throughout the system. Tool-less, Snap-Fit™ junctions, cover options and Plenum Express Exit™ drops significantly reduce the amount of time required for installation.

The FiberGuide system is a complete set of products designed and manufactured to ensure total off-frame protection and ease of use. Basic components include horizontal and vertical straight sections, horizontal and vertical elbows, downspouts, junctions and numerous support hardware and flex-tube kits.

### Available in a variety of sizes:

**2x2** – Ideal for smaller installations or for vertical routing of a maximum of four hundred 2mm fibre optic patch cords. All 2x2 FiberGuide products are shipped with covers.

**2x6** – Designed for height restricted environments, this robust system provides the same support and system flexibility of the traditional 4-inch (100mm) high system while saving 2 inches (50mm) of overhead space. It features a maximum capacity of 1,200, 2mm patch cords.

**4x4** – Features the maximum capacity to support 1,600, 2mm patch cords. It has been engineered to allow straight sections to be self-supporting over a span of up to 1.83m (6 feet).

**4x6** – Features the same benefits of the 4-inch (100mm) system and a maximum trough capacity of 2,400, 2mm patch cords.

**4x12** – The 12-inch (300mm) wide trough has a maximum capacity to support nearly 5,000, 2mm patch cords. Perfect for runs over fibre frame lineups and perimeter routes.

**4x24** – The 4x24-inch (100x600mm) system is the ultimate raceway solution to securely route and protect patch cords over high-density optical distribution frames including ADC KRONE's Next Generation Frame (NGF) and Next Generation 3 Frame (NG3®). Designed for maximum capacity, this robust system provides the same support and flexibility as the traditional 4x12-inch (100x300mm) system while doubling capacity.



# FiberGuide®

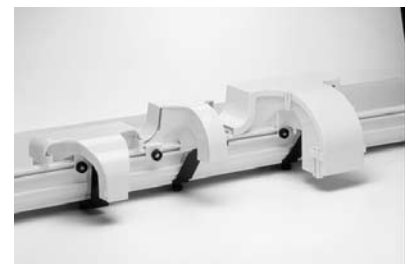
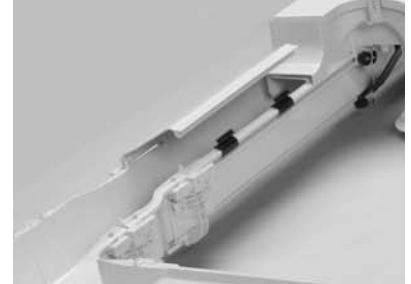
## Fibre Management Systems

### Innovative Products

ADC KRONE continues to add innovative products to FiberGuide® fibre management systems to ensure they remain the most comprehensive solutions for all optical raceway requirements and applications. These products increase functionality and flexibility and are compatible with existing raceway components.

### Snap-Fit™ and Hinged Cover Options

To drive down valuable installation time, ADC KRONE provides tool-less Snap-Fit™ and hinged cover options. Featuring simple, durable molded hardware, these covers install in minutes and require no tools. The hinged cover option provides easy access, enabling installers and technicians to deploy the product quickly and easily. In addition, the covers do not need to be fully opened for maintenance.



### Snap-Fit Junction

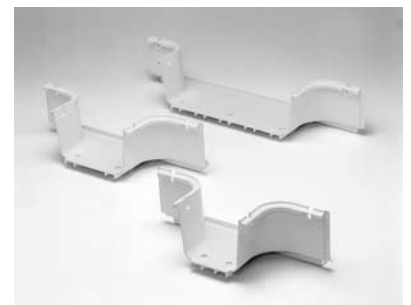
ADC KRONE's Snap-Fit Junction is the industry's first and only completely tool-less junction. No additional tools are needed for installation or removal. Quick and easy to install, the FiberGuide Snap-Fit Junction saves valuable time and money.

### Express Exits™

ADC KRONE features a number of innovative Express Exit™ options: Low profile, 2-inch (50mm) and 4-inch (100mm) options round out this innovative product line, designed to meet your most demanding network requirements. Plenum Express Exit systems are also available. By simply securing an Express Exit to the sidewall of a FiberGuide straight section, jumpers can be permanently or temporarily routed to the fibre optic terminal (FOT) equipment or fibre frames. No cutting is required. Positioning a drop with a member of the Express Exit family greatly simplifies installation, protects the integrity of existing Fibres and increases the overall flexibility of the raceway system.

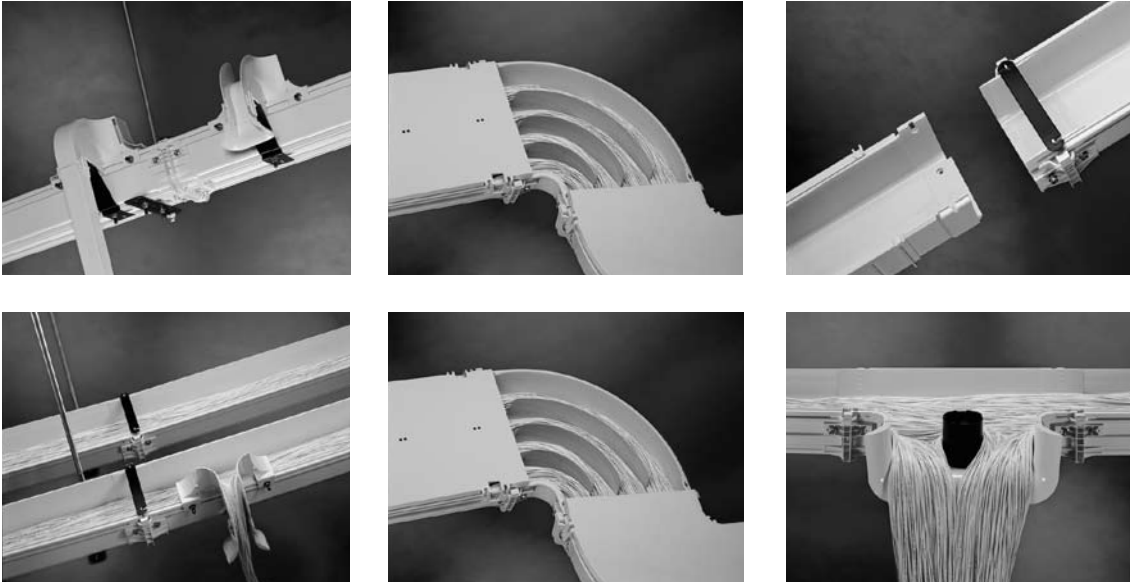
### Raceway Reconfiguration Solutions

ADC KRONE offers two products to facilitate easy on-site raceway reconfigurations. Available for the 4x4, 4x6, 4x12 and 4x24\* systems, the cut-in "T" and the expandable straight section offer the required flexibility to optimise raceway systems in retrofit applications without jeopardising the integrity of existing cables.



\*Expandable straight section not available for 4x24 system.

## Features and Benefits



### Speed of Installation

FiberGuide® systems feature a variety of products that allow for quick and easy installation. Express Exit™ drops as well as tool-less products including Snap-Fit™ junctions, snap-on covers and new hinged cover options save valuable time for installers.

### Speed of Deployment

The Express Exit system enables new drops to be added or removed quickly and easily. A drop can be added into a fully loaded raceway in seconds—without cutting.

### Raceway Flexibility

FiberGuide features 38 support structures, over 75 fittings, multiple drop options and several other components to suit any application you create.

### Fibre Protection

ADC KRONE's broadband expertise translates into maximum protection for your network. Two-inch minimum bend radius is maintained throughout the system regardless of the raceway size.

### Strength and Durability

100% raceway reliability—stands up to any challenge.





TrueNet® Fibre Optic Connectivity and Cable Management Solutions



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