KRONE

Cable Management Solutions

TrueNet® Structured Cabling

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9. Cable Management Solutions

Cable Management Solutions
Glide Cable Management Solutions

ADC KRONE's Glide Cable Management System is the solution to long term efficiency in the building distributor, floor distributor or any IT environment where patching is required. No matter how long the patch cords and no matter how many cords are used, Glide provides a neat, well managed and user friendly cabling infrastructure allowing moves, adds and changes to take place quickly and accurately.

The Glide vertical managers attach to each side of the 19" rack, ensuring that the front of rack is left available for patch panels and other patching equipment. As horizontal patch cord minders are no longer required for every patch panel, more rack units can be populated with patch panels or any other patching equipment. This in turn leads to a saving in floor space, which is valuable in high-density environments such as call centres.

The Glide system works by managing excess lengths of cable through a series of vertical spools called 'slack managers' located within the Glide verticals. Each Glide vertical also has a rib cage, which is its own set of outer cable managers. The patented rib cages are designed to accommodate patch cords at the front of the rack and terminated solid cables at the rear of the rack. While decreasing the initial installation time, this provides greater access for technicians when maintenance is required.

With integrated front, rear, horizontal and vertical cable management, the Glide system has built-in bend radius protection, ensuring network integrity. The built-in slack managers allow excess patch cord length to be easily managed avoiding cable management nightmares.

The patented rib cage design eliminates horizontal patch cord minders and rear cable management trays. It can be used as a single rack or inter rack unit and offers greater patch panel density over traditional 19" cabinets.

Optional crossover troughs and horizontal cable managers are available.

Cable Management Solutions

Glide Cable Management Solutions

Vertical Mount Managers

Ordering Information	
Description	**Product No.**
Glide 6" Vertical Cable Manager, front only Vertical mounted Glide cable manager, black in colour and 6" (152mm) wide. Eliminates horizontal patch cord minders. The 4 integrated slack managers allow patch cords of any length to be routed neatly whilst still easily accessible. Ideal for use at the start or end of an installation of racks. To equip both sides of a 19″ rack, order 2 of these parts.	ADCCMVIBS06F-2
Glide 8" Vertical Cable Manager, front and rear Vertical mounted Glide cable manager, black in colour and 8" (203mm) wide. Patented rib cage design eliminates horizontal patch cord minders and rear cable management trays. The 4 integrated slack managers allow patch cords of any length to be routed neatly whilst still easily accessible. Ideal for use in between racks as an interconnect. To equip both sides of a 19" rack, order 2 of these parts.	ADCCMS-08
Glide 10" Vertical Cable Manager, front and rear Vertical mounted Glide cable manager, black in colour and 10" (254mm) wide. Patented rib cage design eliminates horizontal patch cord minders and rear cable management trays. The 4 integrated slack managers allow patch cords of any length to be routed neatly whilst still easily accessible. Ideal for use in between racks as an interconnect. To equip both sides of a 19" rack, order 2 of these parts.	ADCCMS-10

Glide 6″

Glide 8″

Hinged Covers

Ordering Information	
Description	**Product No.**
Glide 6" Hinged Cover Hinged black cover to suit the Glide 6" vertical cable manager, front only. The kit contains (2) covers for one side of the 19" rack. To cover both sides of a 19" rack, order 2 kits.	ADCC06-2
Glide 8" Hinged Cover Hinged black cover to suit the Glide 8" vertical cable manager. The kit contains (4) covers for both the front and rear. To equip both sides of a 19" rack both front and rear, order 2 kits.	ADCCMVIBC08B4
Glide 10" Hinged Cover Hinged black cover to suit the Glide 10" vertical cable manager. The kit contains (4) covers for both the front and rear. To equip both sides of a 19" rack both front and rear, order 2 kits.	ADCCMVIBC10B4

Hinged cover

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Horizontal Mount Managers

Ordering Information

Description	Product No.
Glide 2RU Horizontal Crossover Trough Horizontal Glide Crossover Trough handles all cable and patch cord routing requirements, black in colour and 2RU. Designed for top, middle or bottom of rack. Built in bend radius protection ensures network integrity. To equip both the front and rear of the 19" rack, order 2 of these parts.	ADCCMTG02
Glide 4RU Horizontal Crossover Trough Horizontal Glide Crossover Trough handles all cable and patch cord routing requirements, black in colour and 4RU. Designed for top, middle or bottom of rack. Built in bend radius protection ensures network integrity. To equip both the front and rear of the 19" rack, order 2 of these parts.	ADCCMTG04
Glide 2RU Horizontal Cable Manager Horizontal Glide Cable Manager handles all cable and patch cord routing requirements, black in colour and 2RU. Designed for top, middle or bottom of rack. Built in bend radius protection ensures network integrity. Front cover hinges down to allow easy access when required. To equip both the front and rear of the 19" rack, order 2 of these parts.	ADCCMHIB-2U

Glide 2RU Horizontal Crossover Trough

Glide 4RU Horizontal Crossover Trough

Glide 2RU Horizontal Cable Manager

Rack

Ordering Information

Description	Product No.
7' Equipment Rack	ADCRACKBLK73

7' Rack

Cable Management Solutions
Glide Cable Management Solutions

Upper and lower crossover managers with vertical cable managers enable easy, intuitive cable routing.

Figure 1: Connect ports to the same side of the same bay using vertical cable managers with slack managers for handling extra cable lengths.

Figure 2: Vertical cable managers integrate cables and maintain neatness in ladder rack and raised floor applications.

Figure 3: Upper and lower crossover managers enable connection of ports on opposite sides of the bay while maintaining an orderly appearance.

15650-B

Figure 1

To Equipment

Overhead Cabling

15648-B

Raised Floor Cabling

To Equipment

Figure 2

15647-B

Figure 3

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Cable Management Solutions

Glide Cable Managment Solutions

208mm

152mm

2130mm

377mm

511mm
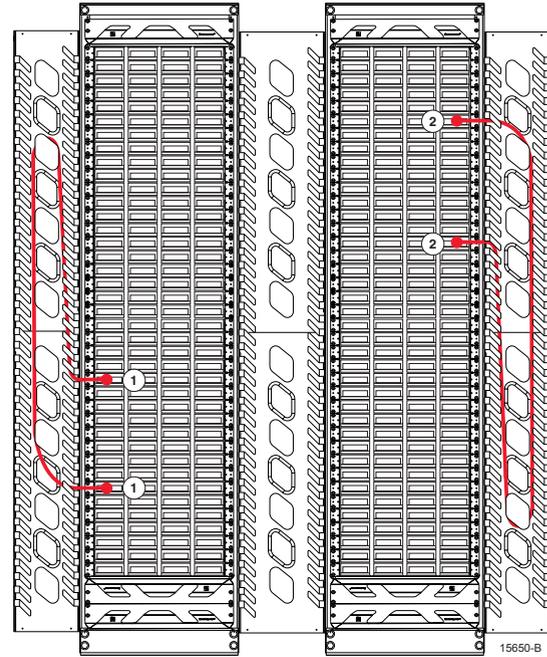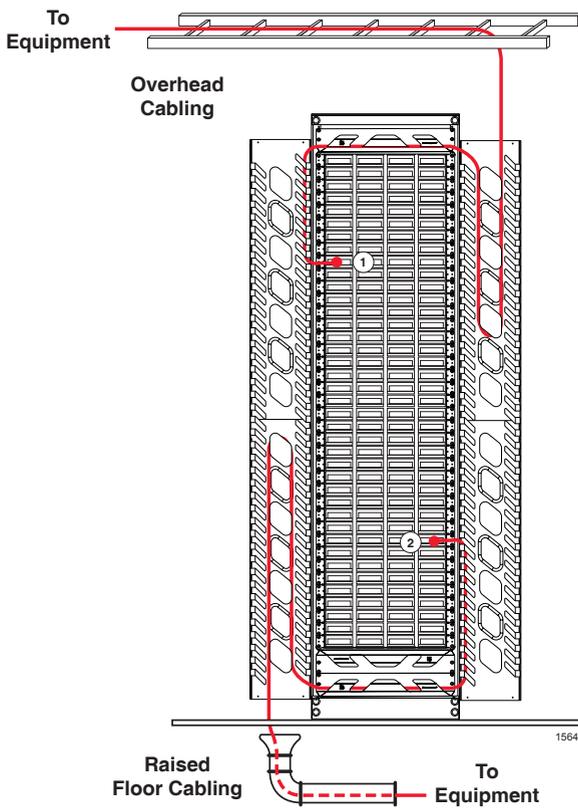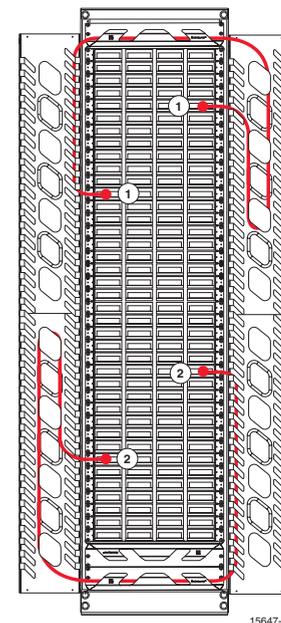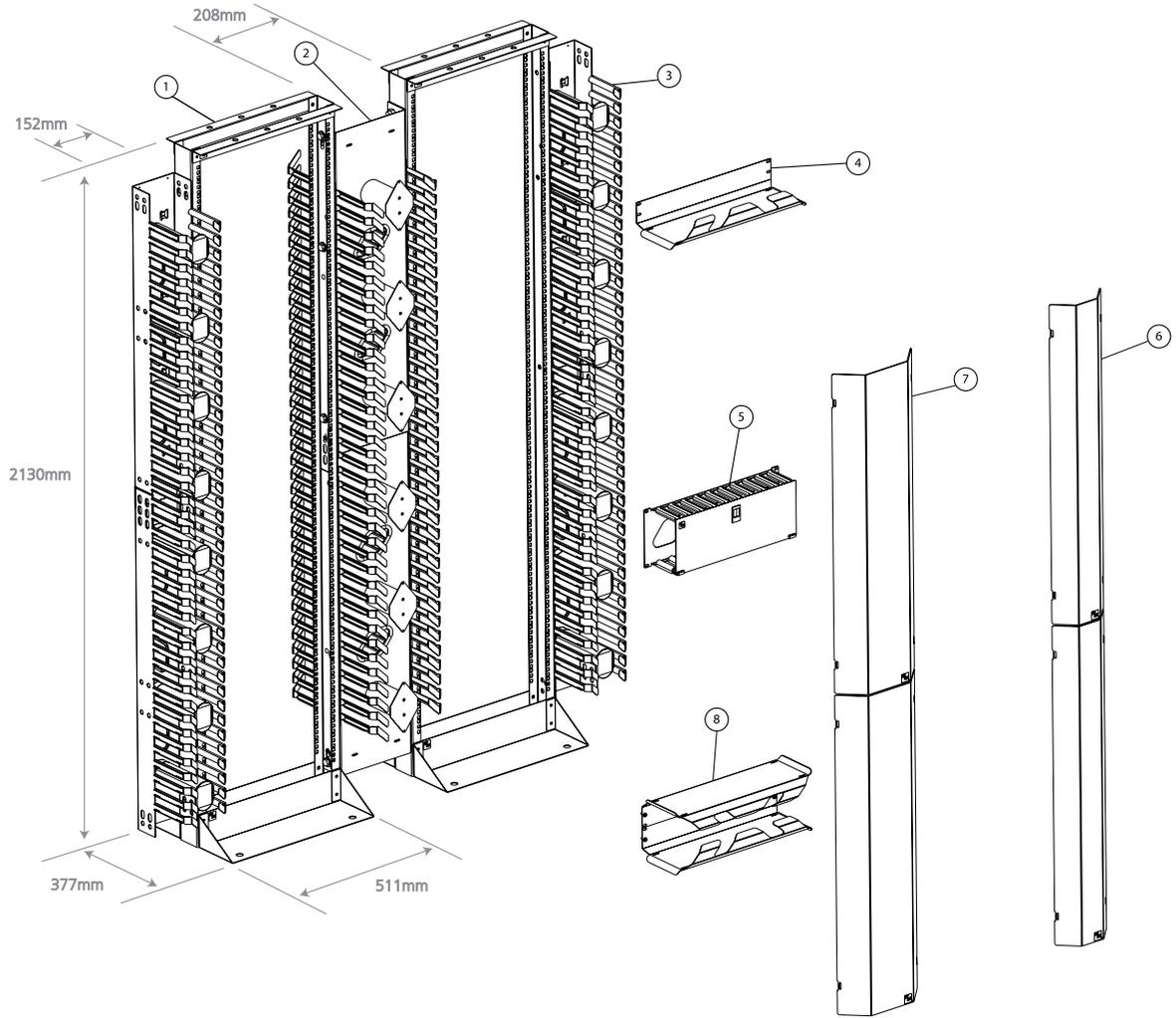
Key (Product Numbers)

1 - ADCRACKBLK73

2 - ADCCMS-08

3 - ADCCMVIBS06F-2

4 - ADCCMTG02

5 - ADCCMHIB-2U

6 - ADCC06-2

7 - ADCCMVIBC08B4

8 - ADCCMTG04

Cable Management Solutions
19" Cable Management Solutions

5-ring Patch Cord Minder

Used for superior horizontal cable management of patch cords (1RU). Ideally suited for Category 6 applications by helping to maintain optimum bend radius. The unique mounting feature allows for the minders to clip directly to 19" racks without the need for cage nuts.

5-ring Patch Cord Minder

Ordering Information

Description	Quantity	Colour	Product No.
5-ring Patch Cord Minder	Box of 1	Grey	6450 1 050-20
5-ring Patch Cord Minder	Box of 5	Grey	6450 5 050-20
5-ring Patch Cord Minder	Box of 1	Black	6450 1 050-30
5-ring Patch Cord Minder	Box of 5	Black	6450 5 050-30

Highway Patch Cord Minder

Highway Patch Cord Minder for 19" rack mounting. Used for horizontal cable management (1RU). Includes 4 jumper rings. Additional jumper rings may be clipped to the rear for additional cable management.

Highway Patch Cord Minder

Ordering Information

Description	Quantity	Colour	Product No.
Patch Cord Minder	Box of 1	Black	6450 1 050-10
Patch Cord Minder	Box of 1	Grey	6450 1 050-00

Highway Patch Cord Minder with Jumper Ring Kit

Highway Patch Cord Minder for 19" rack mounting. Used to assist with horizontal cable management (1RU). Includes 8 jumper rings, 4 on the front and an additional 4 that can be added to the back of the minder for rear cable management.

Patch Cord Minder with Jumper Ring Kit

Ordering Information

Description	Quantity	Colour	Product No.
Patch Cord Minder with Jumper Ring Kit	Box of 1	Black	6450 1 050-01

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Jumper Ring Kit

Kit consists of 4 additional jumper rings for mounting on the rear of the Highway patch cord minder.

19" Jumper Ring Kit

Ordering Information

Description	Quantity	Colour	Product No.
19" Jumper Ring Kit	Box of 4	Grey	6450 2 016-00
19" Jumper Ring Kit	Box of 4	Black	6450 2 016-10

Rack Mount Jumper Rings

Jumper rings are used in 19" rack mounting applications to assist with jumper management.

Plastic Jumper Ring

Ordering Information

Description	Quantity	Colour	Product No.
Plastic Jumper Ring	Bag of 1	Grey	6462 3 089-00
Plastic Jumper Ring	Bag of 1	Black	6462 3 089-03

Patch Cord Minder 2 Rack Unit

Used in 19" racks to assist with horizontal cable management (2RU). Has large plastic jumper rings.

Patch Cord Minder 2RU

Ordering Information

Description	Quantity	Product No.
Patch Cord Minder 2RU	Box of 1	6450 1 045-00

19" Patch Cord Minder (metal)

Used in 19" racks to assist with horizontal cable management (2RU). Has large metal jumper rings.

Patch Cord Minder

Ordering Information

Description	Quantity	Colour	Product No.
Patch Cord Minder	Box of 1	Grey	6450 2 017-00

Patch Cord Management Arm

The Patch Cord Management Arm has been designed for use in 19" racks when conventional horizontal patch cord minders are not in use. This product fits in place of the end cap on each side of a patch panel and manages the cords from 2 panels.

The Patch Cord Management Arm is ideal for use with ADC KRONE's Dynamic Angled Patch Panel and can also be used with any other type of patch panel.

Patch Cord Management Arm 2RU

Ordering Information

Description	Quantity	Colour	Product No.
Patch Cord Management Arm 2RU	Box of 10	Black	6450 1 188-00
Patch Cord Management Arm 2RU	Box of 10	Grey	6450 1 188-01

19" Label Holder Kit

The 19" Cover Label Kit has been designed for use with ADC KRONE's Dynamic Angled Patch Panel. As well as hiding patch cords, it provides additional labelling for 2 patch panels, so that when patched, panels and port locations can be easily identified. The cover clips securely onto the Cable Management Arms (included) without the need for any tools and can be easily removed when panel maintenance or patching is required. Kit includes 2 black patch cord management arms and 1 cover label.

19" Label Holder Kit

Ordering Information

Description	Quantity	Colour	Product No.
19" Label Holder Kit	Box of 1	Black	6450 1 189-00

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Cable Management Solutions
FiberGuide® Fibre Management System

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 minimum bend radius is maintained throughout the system.

Tool-less, Snap-Fit™ junctions, cover options and Express Exit™ drops significantly reduce the amount of time required for installation.

4x12 90° Horizontal Elbow
FGS-MH9E-F

4x12 Horizontal T with single 6" Exit
FGS-MHRT-F/B

4x24 Horizontal Cross
FGS-MHXP-H

4" Express Exit
FGS-MEXP-E-A/B/F

4x12 to 4x24 Adaptor
FGS-MDSA-H/F

4x24 Straight Section
FGS-MSHS-H

4x12 Horizontal T
FGS-MHRT-F

4x12 Straight Section
FGS-MSHS-F

4x24 Island T with Single 12" Exit
FGS-MHRT-H/F

4x24 45° Up Elbow
FGS-MU4E-H

Express Exit
FGS-MEXP-A/B/F

4x12 to Dual 4x6 Adaptor
FGS-MDSA-F2B

4x6 45° Down Elbow
FGS-MD4E-B

4x6 Straight Section
FGS-MSHS-B

4x12 45° Down Elbow
FGS-MD4E-F

4x6 Horizontal Cross
FGS-MHXP-B

Trumpet Flare
FGS-MTRM-F

4x6 45° Up Elbow with Cover
FGS-MU4E-B

4x4 Cut in T for 4x24 FiberGuide®
FGS-MHIS-A/H

Low Profile Express Exit
FGS-MEXP-LP-A/B/F

4x6 45° Horizontal Elbow
FGS-MH4E-B

4x4 90° Horizontal Elbow
FGS-MH9E-A

4x6 90° Down Elbow
FGS-MD9E-B

4x6 to 4x6 Adapter
FGS-MH4E-B

4x6 Straight Section
FGS-MSHS-A

4x12 Horizontal Cross with two 6" Exits
FGS-MHXP-B/F

Trumpet Flare
FGS-MTRM-G

2x2 to 4x4 Adapter
FGS-MDSA-AC

4x6 90° Up Elbow with cover
FGS-MU9E-B

2x2 Horizontal Straight Section
FGS-MSHA-A

2x2 90° Extended Horizontal Elbow
FGS-MH9A-C-45/2
or
2x2 90° Horizontal Elbow
FGS-MH9A-C

Cable Management Solutions
FiberGuide® Fibre Management System

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. FibreGuide® ensures a two-inch minimum bend radius is maintained throughout the system. And new tool-less, SnapFit™ 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 high system while saving 2 inches 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 6 feet (1.83m).

4x6 — Features the same benefits of the 4-inch system and a maximum trough capacity of 2,400, 2mm patch cords.

4x12 — The largest system in the FiberGuide® family, this 12-inch wide trough has a maximum capacity to support nearly 5,000, 2mm patch cords. Perfect for runs over fibre frame lineups and perimeter routes.

Cable Management Solutions
FiberGuide® Fibre Management System

Fibre Cable Raceway Systems
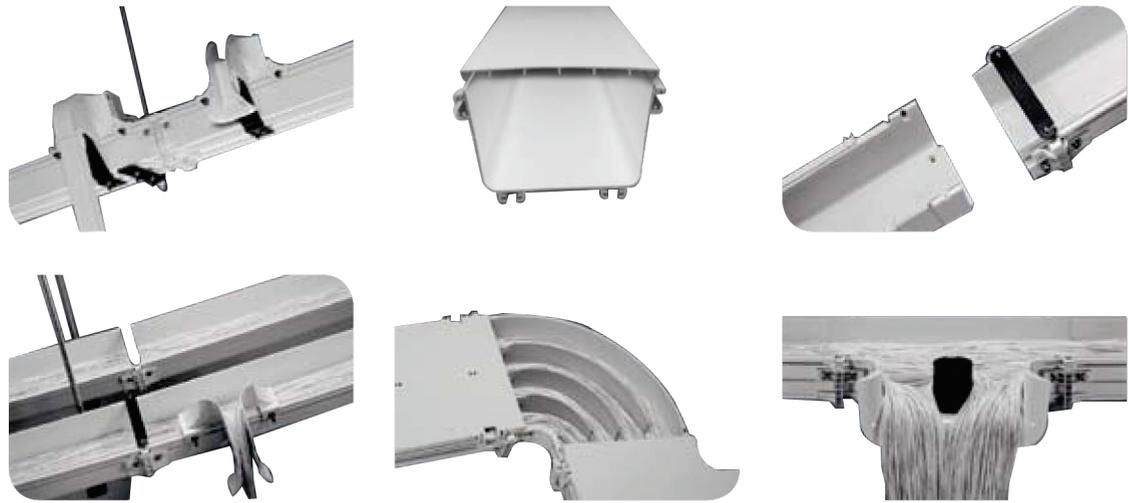
Features	and	Benefits

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.

Cable Management Solutions
FiberGuide® Fibre Management System

Patch Cord Densities

Recommended capacity takes into consideration random jumper placement into the FiberGuide® system. Maximum density refers to the maximum number of fibre jumpers in a given cross-section of a FiberGuide® installation.

ADC KRONE Recommended Density

	1.7mm Patch Cords	2.0mm Patch Cords	3.0mm Patch Cords
Recommended Patch Cord Density (per in²)	120	90	40

Trough Pileup	2x2 FiberGuide® System			2x6 FiberGuide® System			4x4 FiberGuide® System			4x6 FiberGuide® System			4x12 FiberGuide® System		
	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm
2-inch	480	360	160	1440	1080	480	960	720	320	1440	1080	480	2880	2160	960
3-inch	-	-	-	-	-	-	1440	1080	480	2160	1620	720	4320	3240	1440
4-inch	-	-	-	-	-	-	1920	1440	640	2880	2160	960	5760	4320	1920

Maximum Density

	1.7mm Patch Cords	2.0mm Patch Cords	3.0mm Patch Cords
Maximum Patch Cord Density (per in²)	142	102	44

Trough Pileup	2x2 FiberGuide® System			2x6 FiberGuide® System			4x4 FiberGuide® System			4x6 FiberGuide® System			4x12 FiberGuide® System		
	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm	1.7 mm	2.0 mm	3.0 mm
2-inch	568	408	176	1704	1224	528	1136	816	352	1704	1224	528	3408	2448	1056
3-inch	-	-	-	-	-	-	1704	1224	528	2556	1836	792	5112	3672	1584
4-inch	-	-	-	-	-	-	2272	1632	704	3408	2448	1056	6816	4896	2112

TracerLight™ Patch Cords—65 Patch Cords per in²

Trough Pileup	2x2 FiberGuide® System	2x6 FiberGuide® System	4x4 FiberGuide® System	4x6 FiberGuide® System	4x12 FiberGuide® System
2-inch	260	780	520	780	1560
3-inch	-	-	780	1170	2340
4-inch	-	-	1040	1560	3120

Cable Management Solutions

FiberGuide® Fibre Management System

Express Exit™ Units (For use with 2x6, 4x4, 4x6 and 4x12 systems)

Ordering Information	
Description	**Product No.**
2-inch Express Exit™ Unit	FGS-MEXP-A/B/F
4-inch Express Exit™ base with base cover	FGS-MEXP-E-A/B/F
4-inch Express Exit™ rear cover kit	FGS-MEXC-E-A/B/F
Rear cover, 4-inch Express Exit™—4x4 system	FGS-MEXC-E-A
Rear cover, 4-inch Express Exit™—4x6 system	FGS-MEXC-E-B
Rear cover, 4-inch Express Exit™—4x12 system	FGS-MEXC-E-F
Low profile Express Exit™	FGS-MEXP-LP-A/B/F

Express Exits

2x2 Fittings and Junctions

Ordering Information	
Description	**Product No.**
2x2 horizontal cross with cover	FGS-MHXP-C
2x2 horizontal tee with cover	FGS-MHTA-C
2x2 45° horizontal elbow with cover	FGS-MH4A-C
2x2 90° horizontal elbow with cover	FGS-MH9A-C
2x2 to 4-inch straight adapter with cover	FGS-MDSA-AC
2x2 end cap kit (includes junction)	FGS-HMEC-C
2x2 45° up elbow with cover	FGS-MU4A-C
2x2 45° down elbow with cover	FGS-MD4A-C
2x2 90° up elbow with cover	FGS-MU9A-C
2x2 90° down elbow with cover	FGS-MD9A-C
2x2 junction	FGS-MJWR-C
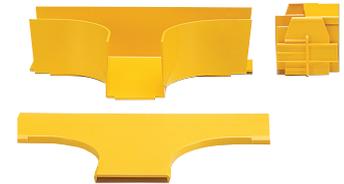
FGS-MHTA-C

2x2 Straight Section

Ordering Information	
Description	**Product No.**
6-foot horizontal straight with cover	FGS-MSHA-C

FGS-MSHA-C

2x2 Downspout Options

Ordering Information	
Description	**Product No.**
2x2 standard downspout with cover	FGS-MSDS-C
2x2 extended downspout with cover	FGS-MDSP-C
2x2 flex tube attachment with 5-foot length 2-inch flex tube and 2x2 junction	FGS-MEX1-C-5F
2x2 extended downspout kit with 2-foot length 2-inch flex tube and cover	FGS-KDH2-C
Dual $7/8$ -inch flex tube attachment with (2) 5-foot lengths flex tube and 2x2 junction	FGS-KT03-C
Kit of 10 $7/8$ -inch flex tube clamps	FGS-HSHC-10

FGS-MSDS-C

Cable Management Solutions
FiberGuide® Fibre Management System

2x2 Direct Support Kits

Ordering Information

Description	Product No.
2x2 ladder rack support kit	FGS-HLR2-C
2x2 bay top short L bracket kit	FGS-BTBS-C
2x2 bay top long L bracket kit	FGS-BTBL-C
2x2 digital cableway support kit	FGS-HDCB-C
2x2 underfloor support kit	FGS-HUFB-C
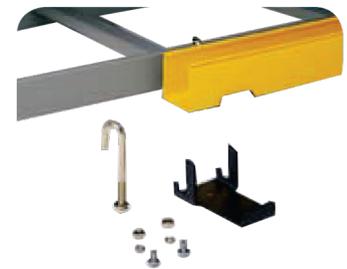
FGS-HLR2-C

2x2 Direct Support Kits

Ordering Information

Description	Product No.
Aluminum track support (6-feet)	FGS-HASK-C
New threaded rod kit ($^5/_8$ -inch)	FGS-HTR2-5/8
New threaded rod kit ($^1/_2$ -inch)	FGS-HTR2-1/2
Track connecting bar kit	FGS-HAEJ-C
Ladder rack bracket kit ($^5/_8$ -inch)	FGS-HLDR-5/8
Threaded rod 12" long	FGS-HTHR-5/8-12
Dual threaded rod bracket kit	FGS-HTUB-2-AB

FGS-HASK-C

2x6 Fittings

Ordering Information

Description	Product No.
2x6 to 2x2 downspout	FGS-MDSP-G
2x6 horizontal T	FGS-MHRT-G
2x6 horizontal cross	FGS-MHXP-G
2x6 90° horizontal elbow	FGS-MH9E-G
2x6 90° down elbow	FGS-MD9E-G
2x6 45° horizontal elbow	FGS-MH4E-G
2x6 45° up elbow with cover	FGS-MU4E-G
2x6 45° down elbow	FGS-MD4E-G
2x6 to 4x4 adapter	FGS-MDSA-GA
2x6 to 4x6 adapter	FGS-MDSA-GB
2x6 trumpet flare	FGS-MTRM-G
2x6 end cap	FGS-HMEC-G
2x6 Express Exit	FGS-MEXP-LP-G

2x6 Straight Section

Ordering Information

Description	Product No.
2x6 horizontal straight section (6-feet)	FGS-MSHS-G
2x6 horizontal straight section snap-on cover (6-feet)	FGS-MSSC-B/G
2x6 horizontal straight section hinged cover	FGS-MSNC-B/G

FGS-MSHS-G

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FiberGuide® Fibre Management System

2x6 Junction

Ordering Information

Description	Product No.
2x6 junction	FGS-JUNC-G

FGS-JUNC-G

4x4 Fittings and Junctions

Ordering Information

Description	Product No.
4x4 downspout	FGS-MDSP-A
4x4 and 4x6 downspout cover	FGS-MCDS-AB
4x4 extended downspout	FGS-MDSP-EX-A
4x4 and 4x6 extended downspout cover	FGS-MCDS-EX-AB
4x4 horizontal T	FGS-MHRT-A
4x4 horizontal T cover	FGS-SHRT-A
4x4 horizontal cross	FGS-MHXP-A
4x4 horizontal cross cover	FGS-SHXP-A
4x4 90° horizontal elbow	FGS-MH9E-A
4x4 90° horizontal elbow cover	FGS-SH9E-A
4x4 45° horizontal elbow	FGS-MH4E-A
4x4 45° horizontal elbow cover	FGS-SH4E-A
4x4 90° up elbow with cover	FGS-MU9E-A
4x4 90° down elbow	FGS-MD9E-A
4x4 90° down elbow cover	FGS-SD9E-A
4x4 45° up elbow with cover	FGS-MU4E-A
4x4 45° down elbow	FGS-MD4E-A
4x4 45° down elbow cover	FGS-SD4E-A
4x4 to 4x6 straight adapter	FGS-MDSA-AB
4x4 to 4x6 straight adapter cover	FGS-SDSA-AB
4x4 end cap	FGS-HMEC-A
4x4 snap-fit junction	FGS-MFAW-A
4x4 cut-in T	FGS-MHIS-A
Cut-in T fixture	FGS-MHIS-JIG-A/B/F
4x4 IFC tie bracket	FGS-HIFC-A

FGS-MDSP-A

FGS-MH9E-A

FGS-MFAW-A

4x4 Straight Section

Ordering Information

Description	Product No.
6-foot horizontal straight section	FGS-MSHS-A
6-foot horizontal straight section hinged cover	FGS-MSHC-A
4x4 expandable straight section	FGS-MVAR-A
6-foot horizontal straight section snap-on cover	FGS-MSSC-A

FGS-MSHS-A

4x4 and 4x6 Downspout Options

Ordering Information

Description	Product No.
4x4 downspout junction kit	FGS-MJWR-A
2x2 flex tube attachment with 5-foot length 2-inch flex tube and 2x2 junction	FGS-MEX1-C-5F
4x4/4x6 downspout insert (adapts to 2x2 system)	FGS-HDSI-AB
4x4 trumpet flare kit	FGS-MTRM-A
4-inch square to 2-inch round adapter with 5-feet flex tubing	FGS-ASRI-5F
4-inch square to 2-inch round adapter with 10-feet flex tubing	FGS-ASRI-10F
4-inch square to 2-inch round adapter with 15-feet flex tubing	FGS-ASRI-15F
4x4 single flex tube attachment with (1) 5-foot length 2-inch flex tubing	FGS-KT03-A1
4x4 dual flex tube attachment with (2) 5-foot lengths 2-inch flex tubing	FGS-KT03-A

FGS-MDSP-EX-A

2x6, 4x4 and 4x6 Support Kits

Ordering Information

Description	Product No.
New threaded rod bracket ($^5/_8$ -inch)	FGS-HNTR-5/8
New threaded rod bracket ($^1/_2$ -inch)	FGS-HNTR-1/2
Modified new threaded rod bracket ($^5/_8$ -inch)	FGS-HNTR-5/8-A
Existing threaded rod bracket ($^5/_8$ -inch)	FGS-HETR-5/8
Existing threaded rod bracket ($^1/_2$ -inch)	FGS-HETR-1/2
Modified existing threaded rod bracket ($^5/_8$ -inch)	FGS-HETR-5/8-A
Center support bracket ($^5/_8$ -inch)	FGS-HTUB-5/8
Center support bracket ($^1/_2$ -inch)	FGS-HTUB-1/2
L bay support bracket	FGS-HLBK
Digital cableway bracket kit (12-inch)	FGS-HCBL-12
Digital cableway bracket kit (15-inch)	FGS-HCBL-15
Top support C-bracket	FGS-HNTS-5/8
Top support low profile C-bracket	FGS-HNTS-5/8-LP
Ladder rack center support bracket kit	FGS-HNLR-AB
Threaded rod, $^5/_8$ -11x12-inch	FGS-HTHR-5/8-12
Threaded rod, $^5/_8$ -11x30-inch	FGS-HTHR-5/8-30
Threaded rod, $^5/_8$ -11x72-inch	FGS-HTHR-5/8-72
Auxiliary framing clip kit $^5/_8$ -11 thread	FGS-HFCK-5/8
Auxiliary framing clip kit $^1/_2$ -11 thread	FGS-HFCK-1/2
Adjacent angle support bracket $^5/_8$ -11/36-inch	FGS-HASB-5/8-36
Adjacent angle support bracket $^5/_8$ -11/48-inch	FGS-HASB-5/8-48
Adjacent angle support bracket $^1/_2$ -13/36-inch	FGS-HASB-1/2-36
Adjacent angle support bracket $^1/_2$ -13/48-inch	FGS-HASB-1/2-48
Ladder rack bracket kit ($^5/_8$ -inch)	FGS-HLDR-5/8
Unistrut nut kit ($^5/_8$ -inch)	FGS-HDGR

FGS-HNTR-XX

9. Cable Management Solutions

Cable Management Solutions

FiberGuide® Fibre Management System

4x6 Fittings and Junctions

Ordering Information

Description	Product No.
4x6 downspout	FGS-MDSP-B
4x4/4x6 downspout cover	FGS-MCDS-AB
4x6 extended downspout	FGS-MDSP-EX-B
4x4/4x6 extended downspout cover	FGS-MCDS-EX-AB**
4x6 horizontal T	FGS-MHRT-B
4x6 horizontal T cover	FGS-SHRT-B
4x6 horizontal cross	FGS-MHXP-B
4x6 horizontal cross cover	FGS-SHXP-B
4x6 90° horizontal elbow	FGS-MH9E-B
4x6 90° horizontal elbow cover	FGS-SH9E-B
4x6 45° horizontal elbow	FGS-MH4E-B
4x6 45° horizontal elbow cover	FGS-SH4E-B
4x6 45° up elbow with cover	FGS-MU4E-B
4x6 45° down elbow	FGS-MD4E-B
4x6 45° down elbow cover	FGS-SD4E-B
4x6 90° down elbow	FGS-MD9E-B
4x6 90° down elbow cover	FGS-SD9E-B
4x6 90° up elbow with cover	FGS-MU9E-B
4x6 cut-in T	FGS-MHIS-B
Cut-in T fixture	FGS-MHIS-JIG-A/B/F
4x6 trumpet flare kit	FGS-MTRM-B
4x6 end cap	FGS-HMEC-B
4x6 snap-fit junction	FGS-MFAW-B
4x6 IFC tie bracket	FGS-HIFC-B

** Dual downspout requires 2 covers

FGS-MDSP-B

FGS-MFAW-B

FGS-MU9E-B

4x6 Straight Section

Ordering Information

Description	Product No.
6-foot horizontal straight section	FGS-MSHS-B
6-foot horizontal straight section hinged cover	FGS-MSHC-B
4x6 expandable straight section	FGS-MVAR-B
6-foot horizontal straight section snap-on cover	FGS-MSSC-B/G

FGS-MSHS-B

Cable Management Solutions
FiberGuide® Fibre Management System

4x12 Fittings

Ordering Information

Description	Product No.
4x12 horizontal T	FGS-MHRT-F
4x12 to 4x6 horizontal T	FGS-MHRT-F/B
4x12 horizontal cross	FGS-MHXP-F
4x12 to 4x6 horizontal cross	FGS-MHXP-B/F
4x12 to 4x6 adapter	FGS-MDSA-FB
4x12 90° horizontal elbow	FGS-MH9E-F
4x12 45° horizontal elbow	FGS-MH4E-F
4x12 end cap	FGS-HMEC-F
4x12 cut-in T	FGS-MHIS-F
Cut-in T fixture	FGS-MHIS-JIG-A/B/F
4x12 45° up elbow with cover	FGS-MU4E-F
4x12 45° down elbow	FGS-MD4E-F
4x12 90° down elbow	FGS-MD9E-F
4x12 trumpet flare kit	FGS-MTRM-F
4x12 downspout with 4x6 exit	FGS-MDSP-F
4x12 downspout with rear T	FGS-MDRT-F
4x12 to dual 4x6 adapter	FGS-MDSA-F2B
4x12 IFC tie bracket	FGS-HIFC-F

FGS-MH9E-F

Covers are available for 4x12 fittings. Please contact ADC KRONE or visit www.adckrone.com

4x12 Straight Section

Ordering Information

Description	Product No.
6-foot horizontal straight section	FGS-MSHS-F
4x12 expandable straight section	FGS-MVAR-F
6-foot snap-on cover	FGS-MSSC-F

FGS-MSHS-F

4x12 (100mm x 300mm) Junction

Ordering Information

Description	Product No.
4x12 Snap-Fit junction	FGS-MFAW-F

FGS-MFAW-F

4x12 (100mm x 300mm) System Support Kits

Ordering Information

Description	Product No.
New threaded rod bracket (5/8 -inch)	FGS-HNTR-F-5/8
Existing threaded rod bracket (5/8 -inch)	FGS-HETR-F-5/8
Top support threaded rod bracket kit	FGS-HNTS-F-5/8
Top support low profile threaded rod bracket kit	FGS-HNTS-F-5/8-LP
Trapeze bracket kit	FGS-HNTP-F-5/8
Ladder rack center support bracket kit	FGS-HNLR-F

9. Cable Management Solutions

Cable Management Solutions
FiberGuide® Fibre Management System

Vertical Duct Systems

Ordering Information

Description	Product No.
2x2 vertical slotted duct kit, 6-feet	FGS-KTW1-C
2x2 vertical 1.5-inch slotted duct kit, 6-feet	FGS-KTW1-CA
2x2 vertical solid duct	FGS-KTW4-C
1x2 vertical duct kit	FGS-KTW1-E
1x2 solid vertical duct kit	FGS-KTW4-E
2x2 vertical to 1x2 vertical adapter bracket	FGS-ACC063
2x2 vertical slotted duct, 6-feet	FGS-MSHS-C
2x2 vertical 1.5-inch slotted duct, 6-feet	FGS-MSHS-CA
Cover for 2x2 vertical duct, 6-feet	FGS-MSHC-C
2x2 vertical duct mounting bracket	FGS-HWMB-D
4x4 vertical duct kit	FGS-KTW2-D
4x4 vertical adapter junction kit	FGS-MJWR-D
4x4 vertical slotted duct, 6-feet	FGS-MSHS-D
Cover for 4x4 vertical duct, 6-feet	FGS-MSHC-D
4x4 vertical duct mounting bracket	FGS-HWMB-D

FGS-KTW2-D

Accessories

Ordering Information

Description	Product No.
Flex Tubing	
2-inch outer diameter slotted flex tube, 5-feet	FGS-MIDY-5F
2-inch outer diameter slotted flex tube, 10-feet	FGS-MIDY-10F
2-inch outer diameter slotted flex tube, 15-feet	FGS-MIDY-15F
1-inch outer diameter slotted flex tube, 100-feet	FGS-MLDY-100F
1-inch outer diameter slotted flex tube, 150-feet	FGS-MLDY-150F
1-inch outer diameter slotted flex tube, 200-feet	FGS-MLDY-200F
1-inch outer diameter slotted flex tube, 250-feet	FGS-MLDY-250F
7/8 -inch outer diameter slotted flex tube, 5-feet	FGS-MFTY-5F
7/8 -inch outer diameter slotted flex tube, 10-feet	FGS-MFTY-10F
7/8 -inch outer diameter slotted flex tube, 15-feet	FGS-MFTY-15F
7/8 -inch outer diameter slotted flex tube, 200-feet	FGS-MFTY-200F
Accessories	
Hinge kit for 4x4 and 4x6 covers (kit of 1)	FGS-HHGK
Self-closing hinge (kit of 3)	FGS-HVHG
Retainer rings (kit of 10)	FGS-HFRR-10
Trough cover clip kit	FGS-KTO9
Mitre box and saw	FGS-MKIT-ABF
Quick knobs (10)	FGS-KQKB
Quick knobs (100)	FGS-HQKK
Flex tube clamps (kit of 10)	FGS-HHEC-10

FGS-MIDY

Cable Management Solutions

Plenum FiberGuide® System

System Description

ADC KRONE's Plenum FiberGuide® System is a fibre cable raceway system that protects optical fibres routed beneath raised computer room floors and above suspended ceilings. These physical areas, used to transport environment air, are typically categorized as plenum air spaces by National Electric Code (NEC) Standards. In general, materials used in these spaces must be non-flammable and must not emit appreciable amounts of smoke or toxic gases when exposed to heat or flame.

Made from sturdy aluminum, ADC KRONE's Plenum FiberGuide® System protects optical fibres by physically separating them from copper communications cable, power cable, ground cables, heating/ventilating ducts, water pipes and many other obstructions commonly encountered in plenum air spaces.

New Plenum FiberGuide® Express Exits™ allow jumpers to be permanently or temporarily routed to the fibre optic terminal (FOT) equipment or fibre frames. No cutting is required because knockout sections can be punched out as necessary.

As seen in **Figure 1**, the Plenum FiberGuide® System can be used above a dropped ceiling as well as below a raised computer floor.

Figure 2 details a layout below a computer floor. This illustration shows a plenum FiberGuide® System featuring new Express Exits™.
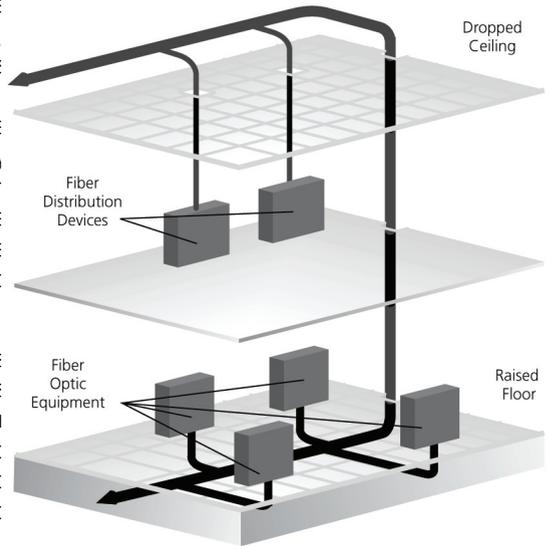

Figure 1

Figure 2

All plenum components, including mounting hardware for mounting the FiberGuide® to the raised floor struts, are available in the Plenum FiberGuide® product line.

9. Cable Management Solutions

Cable Management Solutions

Plenum FiberGuide® System

System Description

Straight sections: U-shaped troughs that provide a protective pathway for optical fibres. Straight sections are usually installed horizontally but may also be installed vertically when a system is mounted on multiple levels. Straight sections are six feet in length, and covers are also available. The covers snap into place but can be easily removed for fibre installation.

New Express Exits™: The Plenum FiberGuide® Express Exit system allows jumpers to be routed in and out of the system with ease. Express Exits are secured to the sidewall of a FiberGuide® straight section where needed. No cutting is required because knockout sections allow for quick and easy deployment.

Fittings: Elbows, tees, crosses, trumpet flares and conversions. The fittings are used for changing direction, converting from one size system to another, adding branch segments and routing the fibres in and out of the system. Like the straight sections, snap-on covers are also available for the fittings.

Junction kits: Used for aligning and connecting straight sections and fittings. Two components are joined by inserting them into a junction and pushing them together.

Support kits: Used to support the FiberGuide® system. The short, long, span and diagonal bracket kits are used for supporting straight sections from round or square tubing.

Flexible tubing: Used in Plenum FiberGuide® systems when the exact layout of the equipment drop locations is unknown or when frequent equipment relocations are expected. The flexible tubing is two inches in diameter and attaches to the end of a straight section with an adapter. When the equipment configuration is known, the flexible tubing is routed to the exact drop location. Other flexible tubing components include splicing couplers, finishing couplers, mounting straps and additional lengths of tubing.

Both patch cords and IFC cables may be installed in the Plenum FiberGuide® System. The required two inch bend radius for patch cords is maintained at all points within the system. IFC cables require the use of tie-down brackets to maintain the required cable bend radius specified by the cable manufacturer at the various fittings.
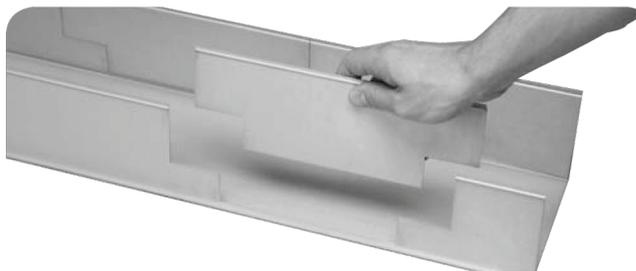
4x6 Horizontal Straight Section with Express Exit Cutouts

2x2, 4x6, and 4x12 Junction Kits

2x2 Horizontal Straight Section

4x6 Horizontal Straight Section

4x12 Horizontal Straight Section

Cable Management Solutions

Plenum FiberGuide® System

Patch Cord Densities

Recommended capacity takes into consideration random jumper placement into the FiberGuide® system. Trough capacity refers to the maximum number of fibre jumpers in a given cross-section of a FiberGuide® installation.

Recommended Density

	Single Patch Cords		
	1.7mm	2.0mm	3.0mm
Recommended Patch Cord Density (per in²)	120	90	40

Trough Pile-up	2x2 FiberGuide® System			4x6 FiberGuide® System			4x12 FiberGuide® System		
	1.7mm	2.0mm	3.0mm	1.7mm	2.0mm	3.0mm	1.7mm	2.0mm	3.0mm
2-inch	480	360	160	1440	1080	480	2880	2160	960
3-inch	-	-	-	-	1620	720	4320	3240	1440
4-inch	-	-	-	-	2160	960	5760	4320	1920

Using Lab Manual Set-ups
Pile-up beyond 2 inches is not recommended

Maximum Density

	1.7mm Patch Cords	2.0mm Patch Cords	3.0mm Patch Cords
Maximum Patch Cord Density (per in2)	142	102	44

Trough Pile-up	2x2 FiberGuide® System			4x6 FiberGuide® System			4x12 FiberGuide® System		
	1.7mm	2.0mm	3.0mm	1.7mm	2.0mm	3.0mm	1.7mm	2.0mm	3.0mm
2-inch	568	408	176	1704	1224	528	3408	2448	1056
3-inch	-	-	-	2556	1836	792	5112	3672	1584
4-inch	-	-	-	3408	2448	1056	6862	4896	2112

Using GR-449-CORE Bellcore Formula

Cable Management Solutions
Plenum FiberGuide® System

2x2 System (2"H x 2"W)

The 2x2 Plenum FiberGuide® system interfaces with ADC KRONE's standard 2x2 FiberGuide® System and requires no special conversion piece.

Ordering Information

Description	Product No.		
	Fitting	**Snap-on Cover**	**Number of Junctions**
Straight section			
2x2 straight section—length: 6'	PFGF-PSHS-C	PFGC-PSHS-C	–
Fittings			
2x2 horizontal T	PFGF-PHRT-C	PFGC-PHRT-C	3
2x2 horizontal cross	PFGF-PHXP-C	PFGC-PHXP-C	4
2x2 90º horizontal elbow	PFGF-PH9E-C	PFGC-PH9E-C	2
2x2 45º horizontal elbow	PFGF-PH4E-C	PFGC-PH4E-C	2
2x2 90º up elbow	PFGF-PUPE-C	PFGC-PUPE-C	2
2x2 90º down elbow	PFGF-PDNE-C	PFGC-PDNE-C	2
2x2 45º up elbow	PFGF-PU4E-C	PFGC-PU4E-C	2
2x2 45º down elbow	PFGF-PD4E-C	PFGC-PD4E-C	2
Trumpet flares			
2x2 trumpet flare—3 sided	PFGF-PTRM-C	–	–
2x2 trumpet flare—4 sided	PFGF-PFPT-C	–	–
Conversions			
2x2 Plenum to 4x6 Plenum conversion	PFGF-PDSA-C/B	PFGC-PDSA-C/B	(1) 2x2 (1) 4x6
2x2 Plenum to 4x12 Plenum conversion	PFGF-PDSA-C/F	PFGC-PDSA-C/F	(1) 2x2 (1) 4x12
Junctions			
2x2 junction	PFGF-PJWR-C	–	–
2x2 end cap—Includes 2x2 junction	PFGF-PMEC-C	–	–

Cable Management Solutions

Plenum FiberGuide® System

4x6 System (4"H x 6"W)

Ordering Information

Description	Product No.		
	Fitting	**Snap-on Cover**	**Number of Junctions**
Straight section			
4x6 straight section—6' long	PFGF-PSHS-B	PFGC-PSHS-B	–
Fittings			
4x6 horizontal T	PFGF-PHRT-B	PFGC-PHRT-B	3
4x6 horizontal cross	PFGF-PHXP-B	PFGC-PHXP-B	4
4x6 90° horizontal elbow	PFGF-PH9E-B	PFGC-PH9E-B	2
4x6 45° horizontal elbow	PFGF-PH4E-B	PFGC-PH4E-B	2
4x6 90° up elbow	PFGF-PUPE-B	PFGC-PUPE-B	2
4x6 90° down elbow	PFGF-PDNE-B	PFGC-PDNE-B	2
4x6 45° up elbow	PFGF-PU4E-B	PFGC-PU4E-B	2
4x6 45° down elbow	PFGF-PD4E-B	PFGC-PD4E-B	2
Trumpet flares			
4x6 trumpet flare—3 sided	PFGF-PTRM-B	–	–
4x6 trumpet flare—4 sided	PFGF-PFPT-B	–	–
Conversions			
4x6 Plenum to 4x6 standard conversion	PFGF-PPSC-B	–	1*
** One 4x6 **Plenum** junction kit required; 4x6 standard junction is **not required***			
4x6 Plenum to 12" Plenum conversion	PFGF-PDSA-B/F	PFGC-PDSA-B/F	(1) 4x6, (1) 4x12
Junctions			
4x6 junction	PFGF-PJWR-B	–	–
4x6 end cap—includes 4x6 junction	PFGF-PMEC-B	–	–

9. Cable Management Solutions

Cable Management Solutions

Plenum FiberGuide® System

4x12 System (4"H x 12"W)

Description	Product No.		
	Fitting	**Snap-on Cover**	**Number of Junctions**
Straight section			
4x12 straight section—6' long	PFGF-PSHS-F	PFGC-PSHS-F	–
Fittings			
4x12 horizontal T	PFGF-PHRT-F	PFGC-PHRT-F	3
4x12 horizontal cross	PFGF-PHXP-F	PFGC-PHXP-F	4
4x12/4x6 horizontal T	PFGF-PHRT-F/B	PFGC-PHRT-F/B	(2) 4x12, (1) 4x6
4x12 90º horizontal elbow	PFGF-PH9E-F	PFGC-PH9E-F	2
4x12 45º horizontal elbow	PFGF-PH4E-F	PFGC-PH4E-F	2
4x12 90º up elbow	PFGF-PUPE-F	PFGC-PUPE-F	2
4x12 90º down elbow	PFGF-PDNE-F	PFGC-PDNE-F	2
4x12 45º up elbow	PFGF-PU4E-F	PFGC-PU4E-F	2
4x12 45º down elbow	PFGF-PD4E-F	PFGC-PD4E-F	2
Trumpet flares			
4x12 trumpet flare—3 sided	PFGF-PTRM-F	–	–
4x12 trumpet flare—4 sided	PFGF-PFPT-F	–	–
Junctions			
4x12 junction	PFGF-PJWR-F	–	–
4x12 end cap—includes 4x12 junction	PFGF-PMEC-F	–	–

Accessories (Support Bracket Kits)

Description	Product No.
Short bracket kit for use with 2x2 and 4x6 sizes; 8.21" overall length	PFGF-SSPT-C/B
Short bracket kit with square U-bolt for easy access mounting	PFGF-EASSPT-C/B
Long bracket kit for use with 2x2, 4x6, and 4x12 sizes; 18.84" overall length	PFGF-LSPT-C/B/F
Long bracket kit with square U-bolt for easy access mounting	PFGF-EALSPT-C/B/F
Span bracket kit for use with 2x2, 4x6, and 4x12 sizes; spans 24" center to center floor struts	PFGF-ESPT-C/B/F
Span bracket kit with square U-bolt for easy access mounting	PFGF-EAESPT-C/B/F
Diagonal span bracket kit for use with 2x2, 4x6, and 4x12 sizes; spans diagonally up to 34" between struts	PFGF-DSPT-C/B/F
Diagonal span bracket kit with square U-bolt for easy access mounting	PFGF-EADSPT-C/B/F

All support bracket kits fit round support pedestals sizes 0.5" to 1.125".

Plenum FiberGuide® System

Accessories (Flexible Tubing)

Description	Product No.
One hose adapter, with 5' (1.53m) hoses and finishing couplers	PFGF-KT03-C
Two hose adapter, with 5' (1.53m) hoses and finishing couplers	PFGF-KT03-B
Extension tube, 5' (1.53m) long with splice coupler	PFGF-HEXT
Finishing coupler	PFGF-HFIN
Mounting strap	PFGF-HMST
Splicing coupler	PFGF-HSPL
Flexible tubing, 2" (5.08cm) inner diameter (X = length in feet: 5, 15, 35, 75, 110, 150)	PFGF-MIDY-XFI
Tie down bracket for IFC	PFGF-PIFC

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