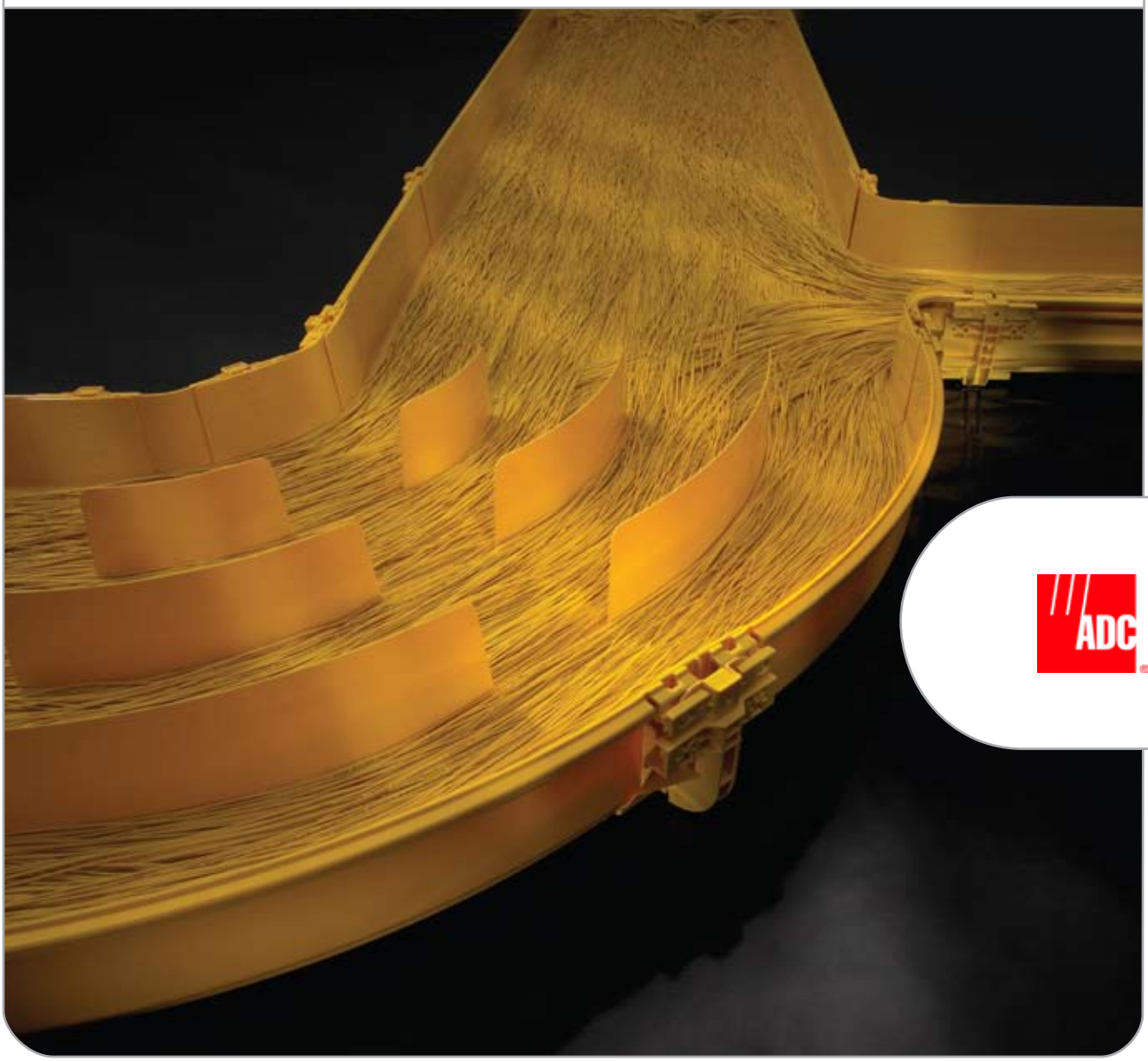
FiberGuide® Fibre Management Systems

2nd Edition



FIBRE CONNECTIVITY SOLUTIONS

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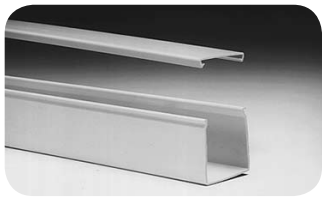
FiberGuide® Fibre Management Systems
Introduction

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 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.

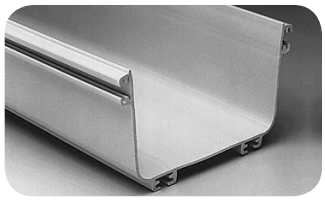


The FiberGuide® system is a complete set of products designed and manufactured to ensure total off-frame protection and ease of use. Basic components include horizontal and vertical straight sections, horizontal and vertical elbows, downspouts, junctions and numerous support hardware and flex-tube kits.

Available in a variety of sizes:

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

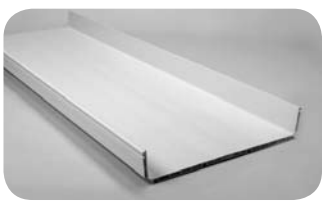
2x6 – Designed for height restricted environments, this robust system provides the same support and system flexibility of the traditional 4-inch-high system while saving 2 inches of overhead space. It features a maximum capacity of 1,200, 2 mm patch cords.



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

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

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

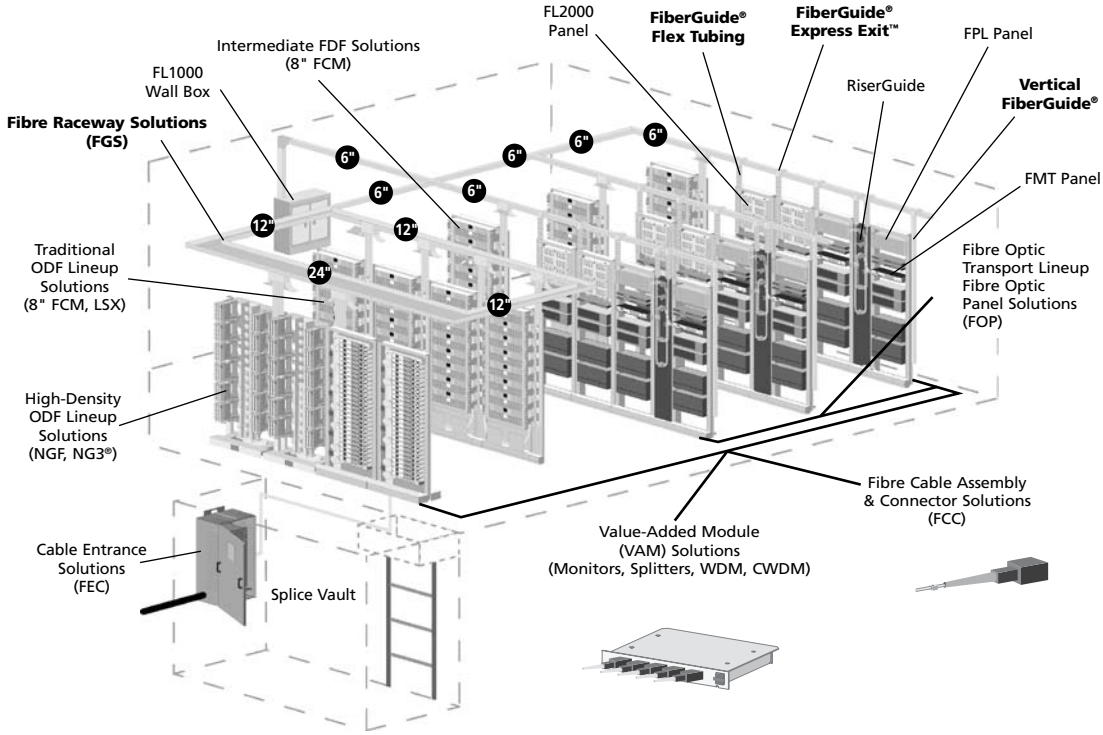


4x24 – The 4x24-inch system is the ultimate raceway solution to securely route and protect patch cords over high-density optical distribution frames including ADC KRONE's Next Generation Frame (NGF) and Next Generation 3 Frame (NG3®). Designed for maximum capacity, this robust system provides the same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

FiberGuide® Fibre Management Systems

A Variety of Solutions

Examples of FiberGuide® Integration



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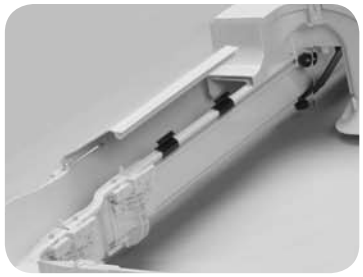
FiberGuide® Fibre Management Systems

Innovative Products

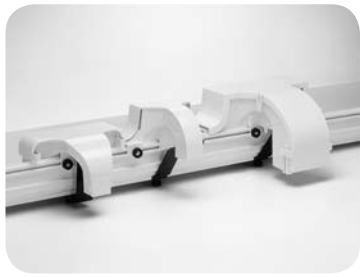
ADC KRONE continues to add innovative products to FiberGuide® fibre management systems to ensure they remain the most comprehensive solutions for all optical raceway requirements and applications. These products increase functionality and flexibility and are compatible with existing raceway components.



Hinged Cover System

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.



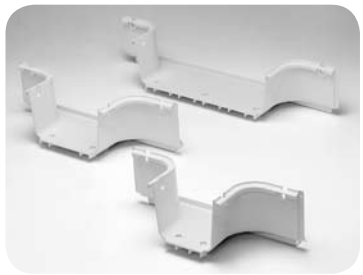
Express Exit™ Family

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 and 4-inch 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.



Cut-in T

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 optimize raceway systems in retrofit applications without jeopardizing the integrity of existing cables.

*Expandable straight section not available for 4x24 system.

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FiberGuide® Fibre Management Systems

System Description

FiberGuide® Materials Product Statement

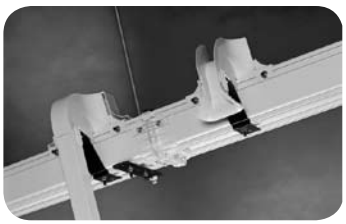
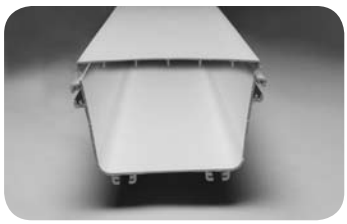
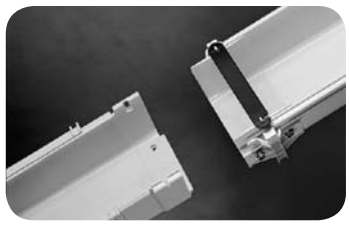
The FiberGuide® fibre management system is a UL-listed (E151158) general purpose fibre optic raceway system. All FiberGuide® products are manufactured from flame-retardant materials. No FiberGuide® system parts contain PVC. The table summarizes the fire-resistant properties of FiberGuide® straight sections, molded parts and flex tube.

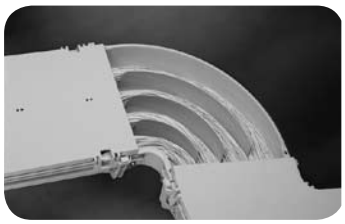
	Raw Material Meets UL Requirement	Finished Product Meets UL Requirement
FiberGuide® Straight Sections (All FiberGuide® Systems)	Flame rated: UL94V-0	UL94V-0 and UL2024
FiberGuide® Molded Fittings (All FiberGuide® Systems)	Flame rated: UL94V-0	UL94V-0 and UL2024
FiberGuide® Flex Tube (2")	Flame rated: UL94V-0	UL2024
FiberGuide® Flex Tube (1")	Flame rated: UL94V-0	UL2024
FiberGuide® Flex Tube (7/8")	Flame rated: UL94V-2	UL2024

Note: FiberGuide® flex tube complies with the National Electrical Code (NEC) Article 770-51 and Underwriters Laboratory UL2024 requirements for General Purpose Fibre Optic Raceways.

FiberGuide® Fibre Management Systems

Features and Benefits



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.

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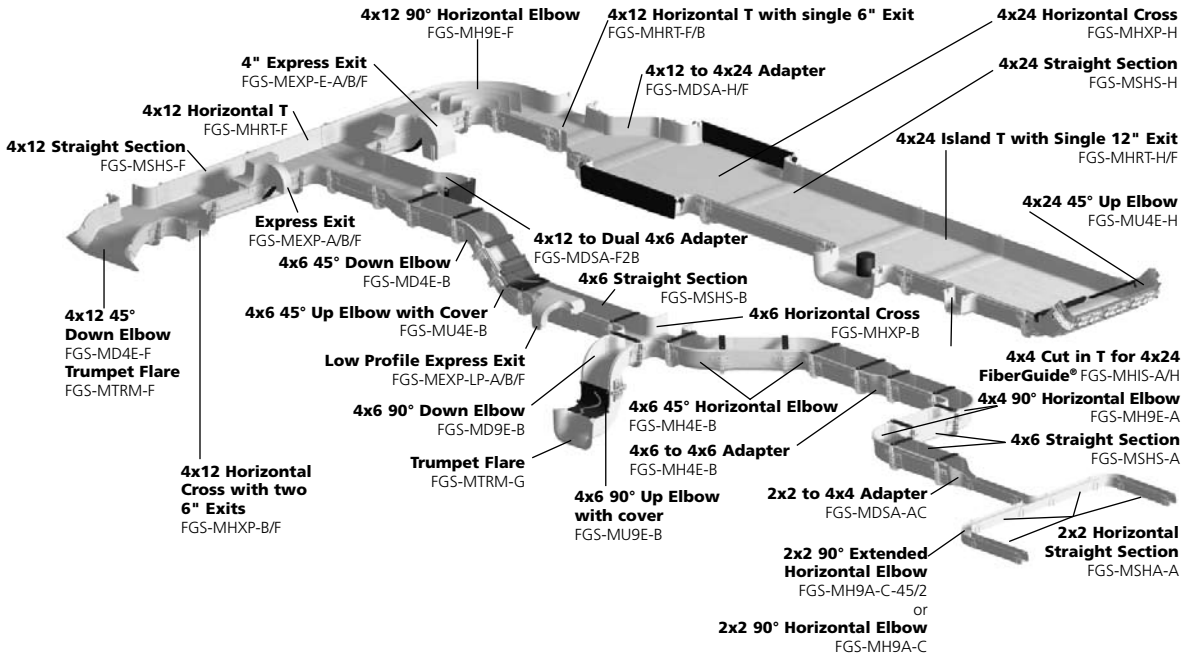
Applications
Combining System Parts

A combination of components from the various sized raceway systems typically comprise overhead FiberGuide® systems. Adapters are used to make the transition between sizes. An example of an overhead system that combines many of ADC KRONE's FiberGuide® systems can be seen below.



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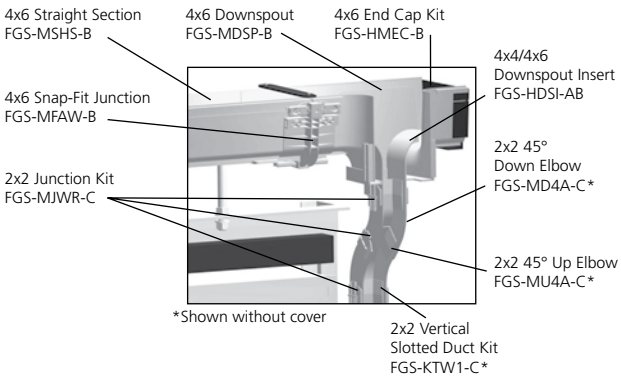
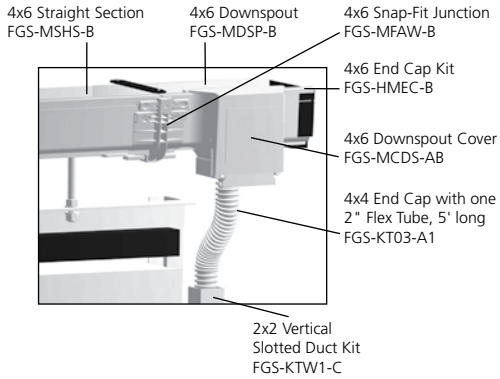
Applications
Downspout Drop Options

A downspout drop is recommended over optical distribution frame lineups. The rigid 2-inch drop option and 2-inch flex tube option are two methods for directing fibres out of overhead FiberGuide® downspouts and into optical equipment bays. The rigid system is recommended because it offers excellent bend radius control and ensures a quality fibre backbone installation.





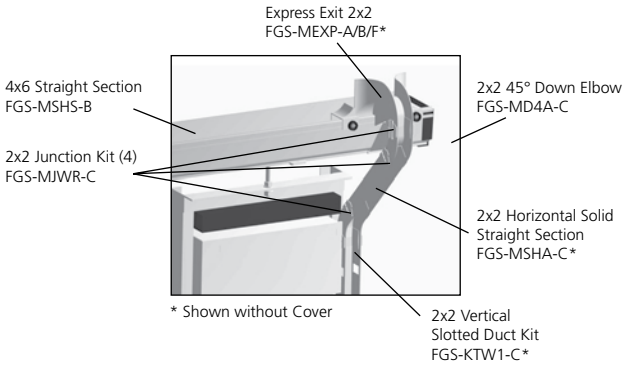
2x2 Rigid Drop Option

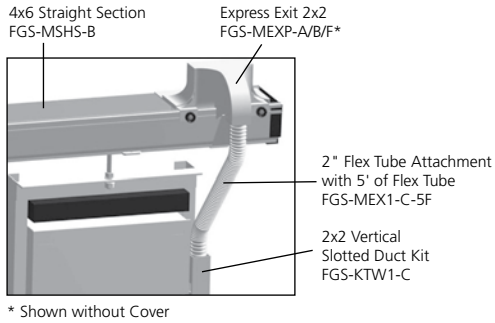
2" Flex Tube Drop Option

Applications

Express Exit™ Drop Options

An Express Exit™ is recommended over active equipment racks or cabinets. The rigid 2-inch drop option and 2-inch flex tube option are two methods for directing fibres out of overhead FiberGuide® downspouts and into optical equipment bays. The rigid system is recommended because it offers excellent bend radius control and ensures a quality fibre backbone installation.



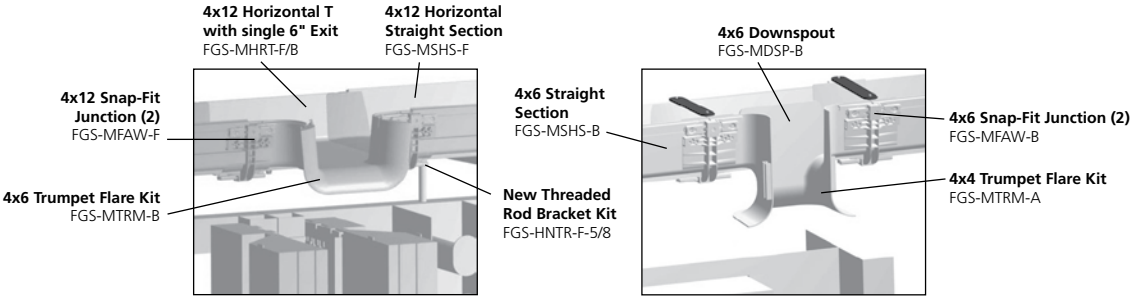


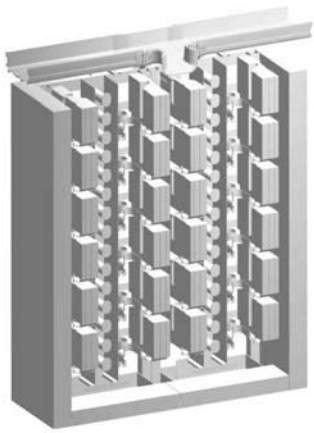
2x2 Rigid Drop Option

2" Flex Tube Drop Option

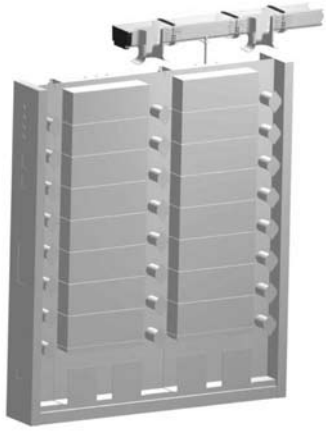
Applications
Trumpet Flare Options

The trumpet flare is recommended at the bottom of a downspout when directing fibres into a fibre distribution bay. Trumpet flares provide bend radius protection and allow for a large number of fibre patch cords to transition into a fibre bay. A 4x4 trumpet flare is used for the 4x4 and 4x6 downspouts and a 4x6 trumpet flare is used for the 4x12 downspout.



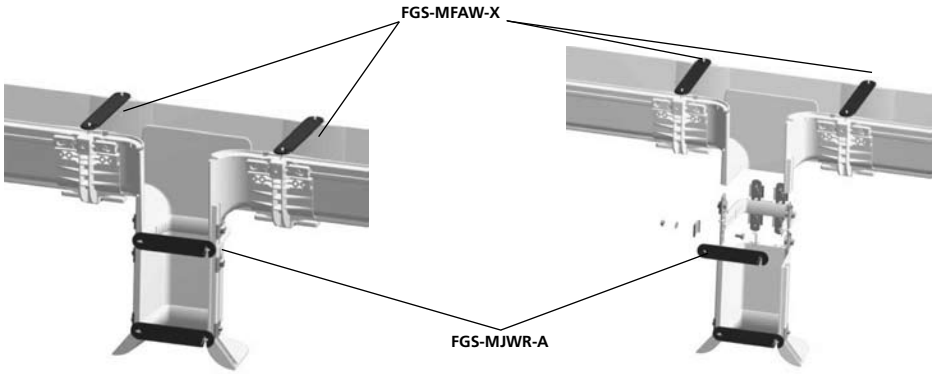


Horizontal T and Trumpet Flare



Downspout with Trumpet Flare

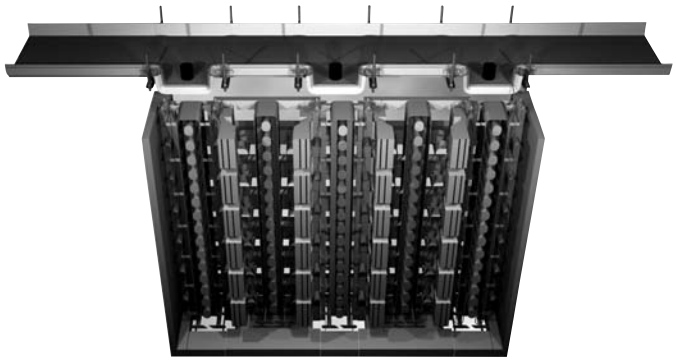
When attaching a straight section or fitting to the exit of a 4x4 or 4x6 downspout, the FGS-MJWR-A junction must be used. This junction is only required to connect the vertical part, the FGS-MFAW-X junction can be used to connect the horizontal parts.



Shown Assembled **Exploded View**

Applications
4x24-Inch Island T

The 4x24 Island T with 12-inch exit is designed to be used over the NGF, NG3® or any high-density fibre frame. The 4x24 Island T, a horizontal T with spool and factory-installed trumpet flare, channels fibre directly into the vertical cableways below.



4x24 Island T
(Shown with support brackets over an NGF frame.)

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Cut-in T, Fitting and Fixture

ADC KRONE's innovative cut-in T fitting and fixture enable on-site raceway modifications without jeopardizing the integrity of installed fibres. Available in 4-, 6-, and 12-inch widths, the cut-in T fitting can be retrofitted to any installed 4-, 6-, 12-, and 24-inch straight section using the cut-in T fixture and the hardware supplied with the fitting. No special tools are required.

Fixture attached to sidewall of raceway

Fixture protects cables during cutting of sidewall

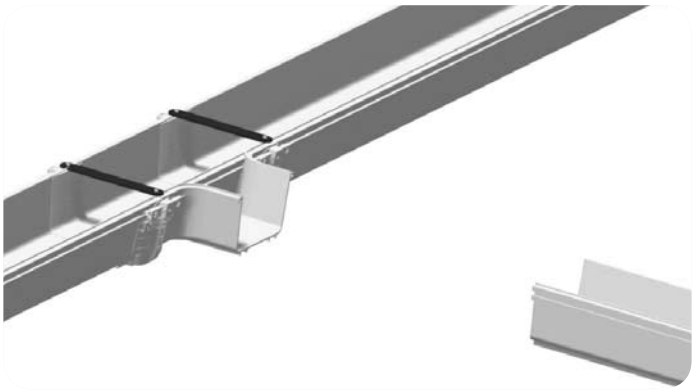
Fitting fills gap left by removed sidewall

Supplied hardware secures fitting to raceway and completes installation

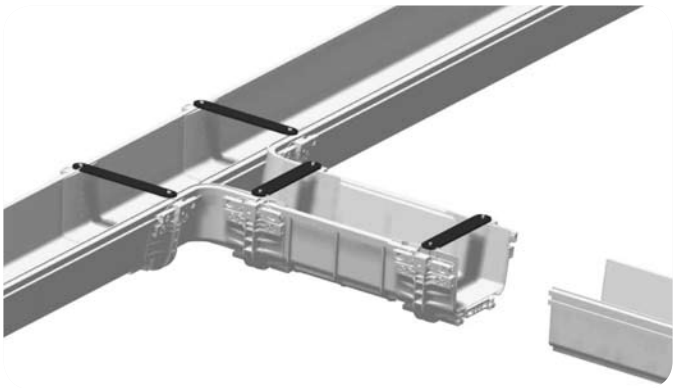
Applications
Raceway Reconfigurations

Expandable Straight Sections

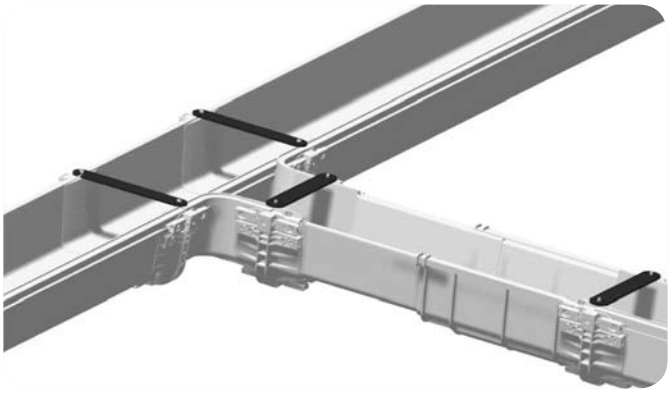
ADC KRONE's expandable straight section simplifies installation and enhances the overall flexibility of the raceway system. The innovative straight section also provides an access point for future reconfigurations. Available in 4-, 6-, and 12-inch widths, the expandable straight section reduces the installation time necessary to connect opposing runs and provides continuous support for patch cords.



Raceway system with gap between opposing runs



Expandable straight section extends to connect runs

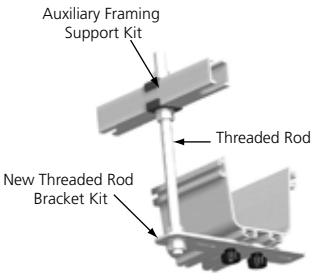


Completed installation

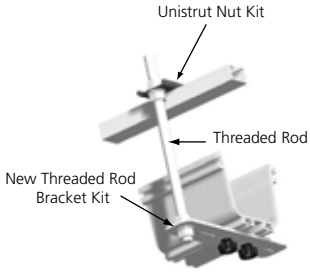
Applications
Supporting Overhead Systems

A variety of support kits are available for each FiberGuide® system. Whenever possible, FiberGuide® support kits should be attached to existing hardware (cable racks, digital cableways, existing threaded rods or equipment racks).

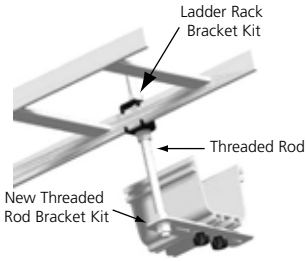
2x6, 4x4, 4x6 Systems



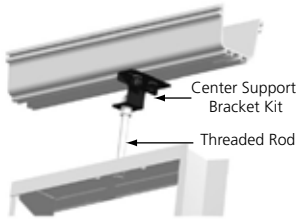
Auxiliary Framing Support



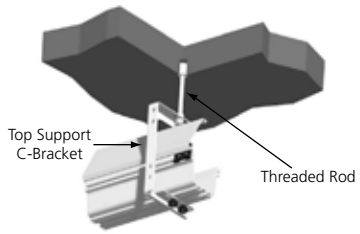
Unistrut Support



Ladder Rack Support

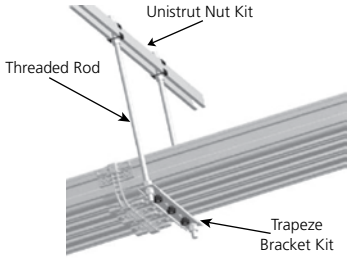


Top of Rack/Cabinet Support

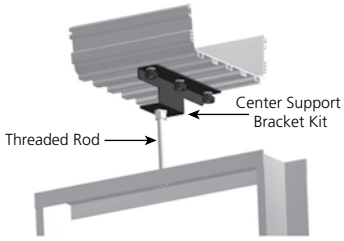


Anchor Support

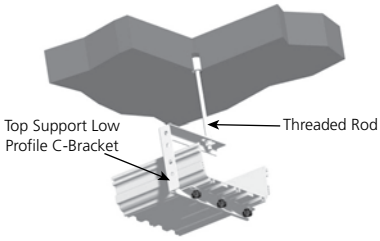
4x12 System



Trapeze Bracket Kit



Top of Rack/Cabinet Support

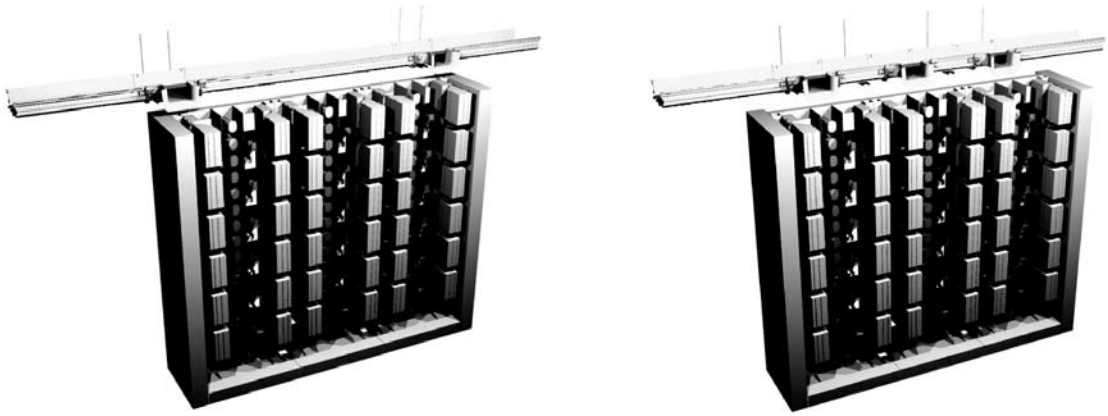


Anchor Support

Applications
Supporting Overhead Systems

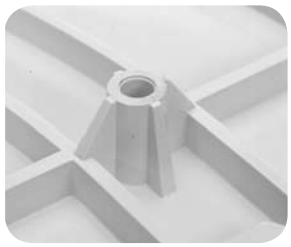
4x12 and 4x24 Systems

The straight sections on the 4x12 and 4x24 FiberGuide® system are exceptionally strong, making frequent placement of supports beneath them unnecessary. Whenever possible the supports should be placed under the fittings using the mounting bosses as shown (photos 1 and 2). This placement provides the strongest system and requires the least amount of support hardware to be used. Occasionally it is not possible to attach the support bracket to the mounting bosses on the fittings; in those instances the variable fitting support locator can be installed on the bottom of the fitting, allowing the support to be attached anywhere along the fitting bottom (photos 3, 4 and 5). When combining several straight sections, it is recommended that support brackets are installed on both sides of each junction.



Typical 4x12 system installation over a Next Generation Frame Line-up

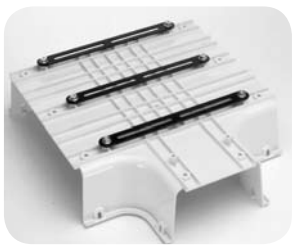
1



2

3

4

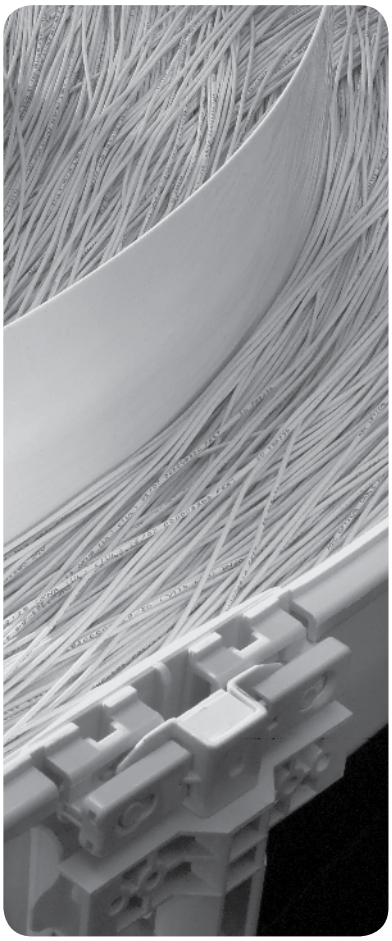


5

Variable Fitting Support Locator

Note: See pages 46 and 54 for 4x12 and 4x24 system fittings.

Patch Cord Densities



Recommended and Maximum Patch Cord Densities 16
Things to Consider when Ordering 17-18

FiberGuide® Fibre Management Systems

Recommended and Maximum 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. The TracerLight® Connector Identification System is ADC KRONE's newest patch cord solution. It features slightly different dimensions than standard patch cords.

Recommended/Maximum Density

1.7 mm Patch Cords (per in²)	2.0 mm Patch Cords (per in²)	3.0 mm Patch Cords (per in²)
120/142	90/102	40/44

Trough Pileup Recommended/Maximum Density

	2-Inch	3-Inch	4-Inch
4x24 System			
1.7 mm	5760/6816	8640/10224	11520/13632
2.0 mm	4320/4869	6480/7344	8640/9792
3.0 mm	1920/2112	2880/3168	3840/4224
4x12 System			
1.7 mm	2880/3408	4320/5112	5760/6816
2.0 mm	2160/2448	3240/3672	4320/4896
3.0 mm	960/960	1440/1584	1920/2112
4x6 System			
1.7 mm	1440/1704	2160/2556	2880/3408
2.0 mm	1080/1224	1620/1836	2160/2448
3.0 mm	480/528	720/792	960/1056
4x4 System			
1.7 mm	960/1136	1440/1704	1920/2272
2.0 mm	720/816	1080/1224	1440/1632
3.0 mm	320/352	480/528	640/704
2x6 System			
1.7 mm	1440/1740	–	–
2.0 mm	1080/1224	–	–
3.0 mm	480/528	–	–
2x2 System			
1.7 mm	480/568	–	
2.0 mm	360/408	–	–
3.0 mm	160/176	–	–

TracerLight® Patch Cords—65 Patch Cords per in²

	2-inch	3-inch	4-inch
4x24 System	3120	4680	6420
4x12 System	1560	2340	3120
4x6 System	780	1170	1560
4x4 System	520	780	1040
2x6 System	780	–	–
2x2 System	260	–	–

FiberGuide® Fibre Management System

Things to Consider When Ordering

For a more complete guide to engineering and planning a FiberGuide® installation, see ADCP-90-166, 4th Edition, Issue 3, March 1996, Section 4, Engineering and Installation Section. For additional technical information see ADCP95-005.

For main aisle runs and/or installations above high density fibre frame equipment, consider the 12" and 24" FiberGuide® product found on page 46 and 54 respectively.

For tributary runs and/or installations above fibre optic terminals (FOTs), consider the 4" and 6" FiberGuide® product found on page 30 and 38 respectively.

For height restricted environments, consider the 2x6" FiberGuide® system found on pages 24-27.

Consider the use of variable support locators for the 4x12" and 4x24" FiberGuide® systems found on page 69 and 70 respectively. The variable support locators provide additional mounting options for support brackets underneath larger fittings such as horizontal T's or elbows.

Consider the use of Express Exits™ rather than the traditional downspouts for bringing fibre out of a straight section run and into a fibre optic terminal (FOT) bay. The Express Exit™ installs without tools and does not require any cutting for installation.

Calculate the maximum potential amount of fibre in a given line-up to determine the proper sized FiberGuide® over that line-up. Considerations should be given to pile-up densities (see page 16 for recommended pile-up densities) and redundant routing paths which will have an effect on proper FiberGuide® sizing.

See pages 58-59 for ordering information on Express Exits™ and pages 62-63 vertical slotted duct systems.

See pages 72-74 for ordering information on system and support kit accessories. Consider the use of the retrofit fin kit for potentially high traffic areas on the 4x4" or 4x6" FiberGuide® systems (fins come molded into certain fittings on the 2x6", 4x12" and 4x24" systems). The fin helps to spread the pile-up of jumpers efficiently across the width of a given FiberGuide® system especially at horizontal turns and intersections.

	Product Number	Quantity
1) Select the Desired FiberGuide® Horizontal Components		
Horizontal Straight Sections (6-feet each)		
2x2" System – Page 22	_____	_____
2x6" System – Page 26	_____	_____
4x4" System – Page 34	_____	_____
4x6" System – Page 42	_____	_____
4x12" System – Page 50	_____	_____
4x24" System – Page 56	_____	_____
45°, 90° Horizontal Elbows, Straight Adapters and End Caps		
2x2" System – Page 20	_____	_____
2x6" System – Page 24	_____	_____
4x4" System – Page 30	_____	_____
4x6" System – Page 38	_____	_____
4x12" System – Page 46	_____	_____
4x24" System – Page 54	_____	_____

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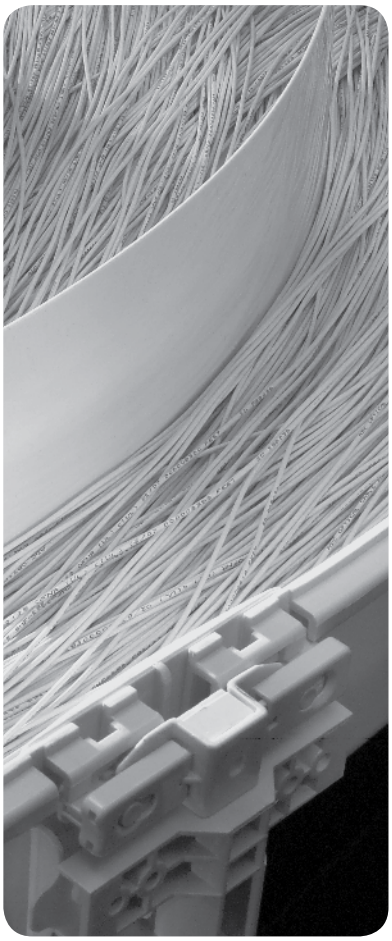
FiberGuide® Fibre Management System

Things to Consider When Ordering

	Product Number	Quantity
2) Select the Desired FiberGuide® Vertical Components		
45°, and 90° Up and Down Elbows		
2x2" System – Page 20	_____	_____
2x6" System – Page 24-25	_____	_____
4x4" System – Page 30-31	_____	_____
4x6" System – Page 38-39	_____	_____
4x12" System – Page 46-47	_____	_____
4x24" System – Page 54	_____	_____
Downspouts, Trumpet Flares and Attachments		
2x2" System – Page 21	_____	_____
2x6" System – Page 24-25	_____	_____
4x4" System – Page 32-33	_____	_____
4x6" System – Page 40-41	_____	_____
4x12" System – Page 48-49	_____	_____
4x24" System – Page 55	_____	_____
Express Exits and Vertical Slotted Duct Systems		
Express Exit™ Family – Page 57	_____	_____
Vertical Slotted Duct Systems – Page 61	_____	_____
3) Select the Desired FiberGuide® Support Kits and Accessories		
FiberGuide® Support Kits		
2x2" System – Page 66	_____	_____
2x6", 4x4" and 4x6" System – Page 68	_____	_____
4x12" System – Page 69	_____	_____
4x24" System – Page 70	_____	_____

For accessories including attachment hardware and threaded rod, see pages 72-74.

2x2 System

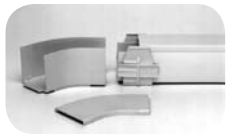


Fittings 20
Downspouts and Attachments 21
Straight Section and Junction 22

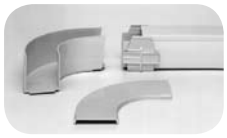
2x2 System
Fittings – 2" H x 2" W

Horizontal T
(FGS-MHTA-C)

Horizontal Cross
(FGS-MHXP-C)



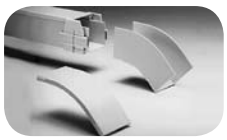
45° Horizontal Elbow
(FGS-MH4A-C)



90° Horizontal Elbow
(FGS-MH9A-C)

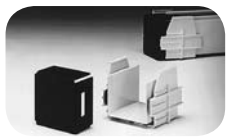
90° Extended Horizontal Elbow
(FGS-MH9A-C-45/2)

45° Up Elbow
(FGS-MU4A-C)



45° Down Elbow
(FGS-MD4A-C)

2x2 to 4x4 Straight Adapter
(FGS-MDSA-AC)



End Cap
(FGS-HMEC-C)

Ordering Information

Description	Number of Junctions	Product Number	
		Yellow System	Orange System
2x2 fittings			
Horizontal T; *cover included*	3	FGS-MHTA-C	FGSO-MHTA-C
Horizontal cross; *cover and two 2x2 junctions included; two additional 2x2 junctions required (see p. 22)*	2+2	FGS-MHXP-C	FGSO-MHXP-C
45° horizontal elbow; *cover included*	2	FGS-MH4A-C	FGSO-MH4A-C
90° horizontal elbow; *cover included*	2	FGS-MH9A-C	FGSO-MH9A-C
90° extended horizontal elbow; *cover included; similar to two 45° horizontal elbows joined*	2	FGS-MH9A-C-45/2	FGSO-MH9A-C-45/2
45° up elbow; *cover included*	2	FGS-MU4A-C	FGSO-MU4A-C
90° up elbow; *cover included*	2	FGS-MU9A-C	FGSO-MU9A-C
45° down elbow; *cover included*	2	FGS-MD4A-C	FGSO-MD4A-C
90° down elbow; *cover included*	2	FGS-MD9A-C	FGSO-MD9A-C
2x2 conversions			
2x2 to 4x4 straight adapter; *cover included*	(1) 2x2, (1) 4x4	FGS-MDSA-AC	FGSO-MDSA-AC
2x2 end cap			
End cap; *junction included*	—	FGS-HMEC-C	FGSO-HMEC-C

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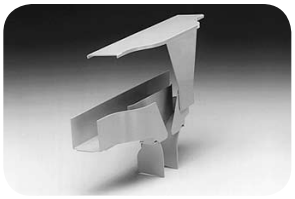
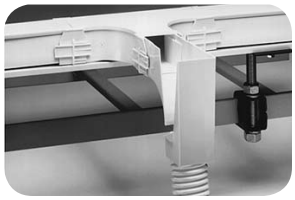
2x2 System

Downspouts and Attachments – 2" H x 2" W

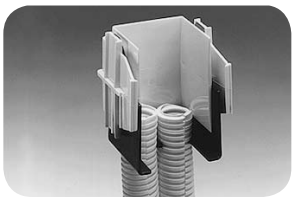


2x2 Standard Downspout
(FGS-MSDS-C)

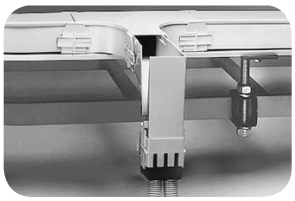
2x2 Extended Downspout
(FGS-MDSP-C)



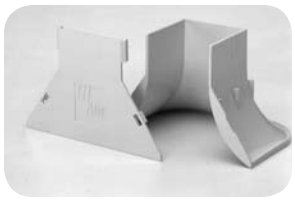
Extended Downspout
(FGS-KDH2-C shown attached to 2x2 FiberGuide® system)



Dual 7/8" Flex Tube Attachment
(FGS-KT03-C)



Dual 7/8" Flex Tube Attachment
(FGS-KT03-C shown attached to downspout)



2x2 Trumpet Flare
(FGS-MTRM-C)

Ordering Information

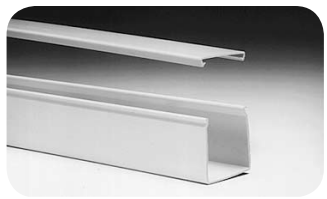
Description	Number of Junctions	Product Number	
		Yellow System	Orange System
2x2 downspouts			
Standard downspout; *cover included*	2	FGS-MSDS-C	FGSO-MSDS-C
Extended downspout; *cover included*	1	FGS-MDSP-C	FGSO-MDSP-C
Extended downspout; *cover and 2" flex tube, 2' long, included*	1	FGS-KDH2-C	FGSO-KDH2-C
Trumpet flare; *2x2 junction included*	–	FGS-MTRM-C	FGSO-MTRM-C
2x2 attachments			
2x2 flex tube attachment – *2" flex tube and a 2x2 junction included*			
5' length	–	FGS-MEX1-C-5F	FGSO-MEX1-C-5F
10' length	–	FGS-MEX1-C-10F	FGSO-MEX1-C-10F
15' length	–	FGS-MEX1-C-15F	FGSO-MEX1-C-15F
Dual 7/8" flex tube attachment – *two lengths of 7/8" flex tube and a 2x2 junction included*			
(2) 5' length	–	FGS-KT03-C	FGSO-KT03-C
(2) 10' length	–	FGS-KT03-C-10F	FGSO-KT03-C-10F
(2) 15' length	–	FGS-KT03-C-15F	FGSO-KT03-C-15F
Flex tube clamp kit of 10; *attaches 7/8" flex tube to rack*	–	FGS-HSHC-10	FGS-HSHC-10

2x2 System

Straight Section and Junction – 2" H x 2" W

Straight Section

The 2x2 straight section is a U-shaped trough that provides a protective raceway for optical fibres. Available in 6-foot lengths, the straight section carries fibres horizontally throughout the system. It can also be installed vertically when routing around obstructions. A warning label indicating caution around fibre optic cable is included with each junction kit.



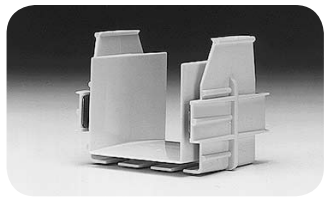
Horizontal Straight Section
(FGS-MSHA-C)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
2x2 straight section; horizontal straight section; *6' long, cover included*	FGS-MSHA-C	FGSO-MSHA-C

Junction

The 2x2 junction is used for mechanically joining FiberGuide® sections. No tools are required for assembly.



Junction
(FGS-MJWR-C)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
2x2 junction	FGS-MJWR-C	FGSO-MJWR-C

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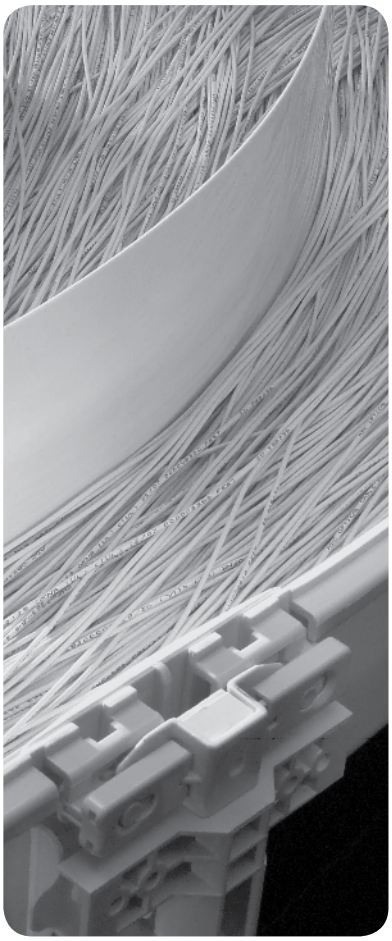
2x6 System



Fittings, Low-Profile Express Exit™, Downspouts and Attachments 24

Straight Section 26

Junction 27

2x6 System

Fittings, Downspouts and Attachments – 2" H x 6" W

Ordering Information

Description	Number of Junctions	Yellow System Product Number
2x6 fittings		
Horizontal T	3	FGS-MHRT-G
Horizontal cross	4	FGS-MHXP-G
90° horizontal elbow	2	FGS-MH9E-G
90° down elbow	2	FGS-MD9E-G
45° horizontal elbow	2	FGS-MH4E-G
45° up elbow, *metal cover included*	2	FGS-MU4E-G
45° down elbow	2	FGS-MD4E-G
2x6 conversions		
2x6 to 4x4 adapter	(1) 2x6, (1) 4x4	FGS-MDSA-GA
2x6 to 4x6 adapter	(1) 2x6, (1) 4x6	FGS-MDSA-GB
Trumpet flare	–	FGS-MTRM-G
2x6 downspouts		
2x6 to 2x2 downspout	2	FGS-MDSP-G
2x6 attachments		
Dual 2" flex tube attachment	–	FGS-KT03-G-5F
2x6 end cap	–	FGS-HMEC-G

Low-Profile Express Exit™

Designed for low-ceiling or height restricted environments, the Express Exit™ for the 2x6 FiberGuide® system extends only two inches above the straight section sidewall. The Express Exit™ accommodates up to 150 (3 mm) patch cords, includes removable rear cable guides for additional cable management, and features a 2x2 exit opening. It is designed specifically for the 2x6 FiberGuide® system and should not be used on any other FiberGuide® system.

Express Exit
(FGS-MEXP-LP-G)

Ordering Information

Description	Yellow System Product Number
Low-Profile Express Exit™ (designed exclusively for the 2x6 system) *Base, cover, mounting hardware, and support bracket included*	FGS-MEXP-LP-G

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2x6 System

Fittings, Downspouts and Attachments – 2" H x 6" W

2x6 to 2x2 Downspout
(FGS-MDSP-G)

Horizontal T
(FGS-MHRT-G)

Horizontal Cross
(FGS-MHXP-G)

90° Horizontal Elbow
(FGS-MH9E-G)

90° Down Elbow
(FGS-MD9E-G)

45° Horizontal Elbow
(FGS-MH4E-G)

45° Up Elbow
(FGS-MU4E-G)
(Metal Cover Included)

45° Down Elbow
(FGS-MD4E-G)

2x6 to 4x4 Adapter
(FGS-MDSA-GA)

2x6 to 4x6 Adapter
(FGS-MDSA-GB)

Trumpet Flare
(FGS-MTRM-G)

2x6 System

Straight Section – 2" H x 6" W

The unique four-channel design of the 2x6 FiberGuide® straight section allows the standard system to be attached to the support structure without the need to cut or drill any holes within the trough. This ensures that the patch cords will not come in contact with any screw heads or bolts.

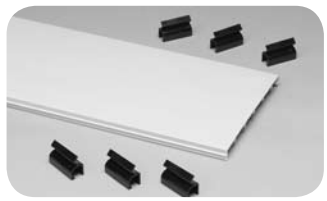
Straight Section
(FGS-MSHS-G)

Ordering Information

Description	Yellow System Product Number
2x6 straight section; horizontal straight section; *6' long, cover sold seperately*	FGS-MSHS-G
2x6 accessories	
2x6 hinged cover kit for horizontal straight section; *three mounting hinges and three clips included*	FGS-MSNC-B/G
6-inch snap-on cover kit for horizontal straight section; *six capture clips with mounting clasps included*	FGS-MSSC-B/G
Kit-10 black capture clips*	FGS-DHCP

*See drawings on page 79 for more detail on how capture clips and hinges are used.

Hinged Cover Kit for Horizontal Straight Section
(FGS-MSNC-B/G)



6-inch Snap-on Cover
(FGS-MSSC-B/G)

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2x6 System

Junction – 2" H x 6" W

The one-piece junction employs factory-installed set screws to assure strength and durability. No cutting or drilling of the components is required for assembly. A warning label indicating caution around fibre optic cable is included with each junction kit.

2x6 Junction
(FGS-JUNC-G)

Ordering Information

Description	Yellow System Product Number
2x6 junction	FGS-JUNC-G

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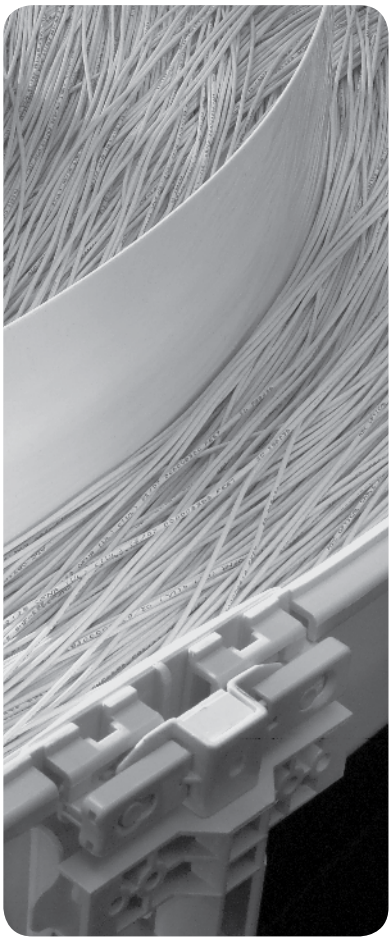
4x4 System



Fittings 30

Downspouts and Attachments 32

Straight Section 34

Snap-Fit™ Junction 35

4x4 System
Fittings – 4" H x 4" W

Ordering Information

Description	Number of Junctions	Product Number				
		Yellow System	Yellow System Snap-on Cover	Orange System	Orange System Snap-on Cover	Fixed Metal Cover
4x4 fittings						
Horizontal T	3	FGS-MHRT-A	FGS-SHRT-A	FGSO-MHRT-A	FGSO-SHRT-A	FGS-CHRT-A
Horizontal cross	4	FGS-MHXP-A	FGS-SHXP-A	FGSO-MHXP-A	FGSO-SHXP-A	FGS-CHXP-A
90° horizontal elbow	2	FGS-MH9E-A	FGS-SH9E-A	FGSO-MH9E-A	FGSO-SH9E-A	FGS-CH9E-A
90° up elbow metal cover included	2	FGS-MU9E-A	FGS-SU9E-A	FGSO-MU9E-A	FGSO-SU9E-A	FGS-CU9E-A
90° down elbow	2	FGS-MD9E-A	FGS-SD9E-A	FGSO-MD9E-A	FGSO-SD9E-A	FGS-CD9E-A
45° horizontal elbow	2	FGS-MH4E-A	FGS-SH4E-A	FGSO-MH4E-A	FGSO-SH4E-A	FGS-CH4E-A
45° up elbow metal cover included	2	FGS-MU4E-A	FGS-SU4E-A	FGSO-MU4E-A	FGSO-SU4E-A	FGS-CU4E-A
45° down elbow	2	FGS-MD4E-A	FGS-SD4E-A	FGSO-MD4E-A	FGSO-SD4E-A	FGS-CD4E-A
4x4 conversions						
4x4 to 4x6 straight adapter	(1) 4x4, (1) 4x6	FGS-MDSA-AB	FGS-SDSA-AB	FGSO-MDSA-AB	FGSO-SDSA-AB	FGS-CDSA-AB
4x4 expandable straight section	2	FGS-MVAR-A	–	FGSO-MVAR-A	–	–
4"Cut-in T assembly hardware included	–	FGS-MHIS-A	–	FGSO-MHIS-A	–	–
6"Cut-in T assembly hardware included	–	FGS-MHIS-B	–	FGSO-MHIS-B	–	–
12"Cut-in T assembly hardware included	–	FGS-MHIS-F	–	FGSO-MHIS-F	–	–
Cut-in T fixture	–	FGS-MHIS-JIG-A/B/F	–	FGS-MHIS-JIG-A/B/F	–	–
4x4 end cap	–	FGS-HMEC-A	–	FGS-HMEC-A	–	–

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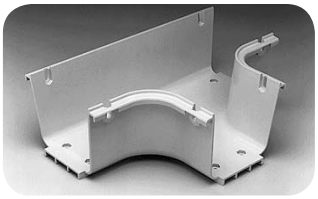
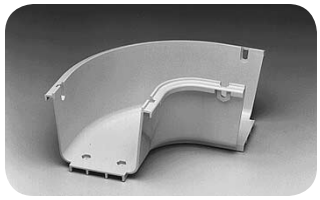
4x4 System
Fittings – 4" H x 4" W



Horizontal T
(FGS-MHRT-A)

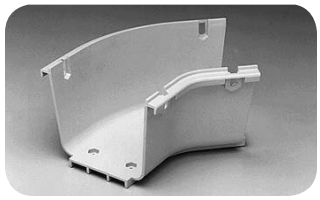
Horizontal Cross
(FGS-MHXP-A)



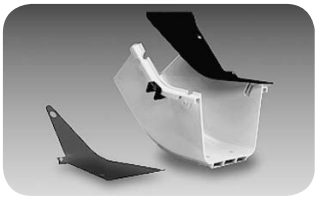
90° Horizontal Elbow
(FGS-MH9E-A)

90° Up Elbow
Metal Cover Included
(FGS-MU9E-A)

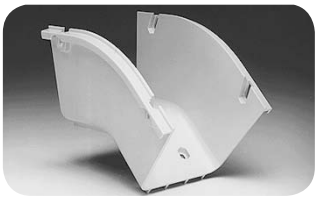
90° Down Elbow
(FGS-MD9E-A)



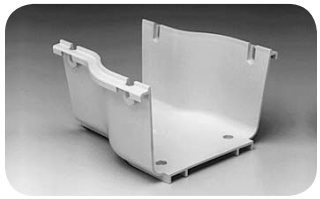
45° Horizontal Elbow
(FGS-MH4E-A)



45° Up Elbow
Metal Cover Included
(FGS-MU4E-A)



45° Down Elbow
(FGS-MD4E-A)

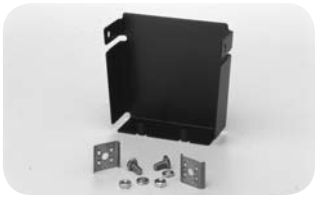


4x4 to 4x6 Straight Adapter
(FGS-MDSA-AB)

Expandable Straight Section
(FGS-MVAR-A)

Cut-in T
(FGS-MHIS-A)

Cut-in T Fixture
shown on straight section
(FGS-MHIS-JIG-A/B/F)



End Cap
(FGS-HMEC-A)

Snap-on Plastic Cover
(FGS-SH4E-A shown attached to 45° horizontal elbow with junctions)

4x4 System

Downspouts and Attachments – 4" H x 4" W

An array of 4x4 downspout options are available to feed fibre from overhead straight sections into fibre optic equipment below.

Ordering Information

Description	Number of Junctions	Yellow System Product Number	Orange System Product Number
4x4 downspouts			
Downspout	2*	FGS-MDSP-A	FGSO-MDSP-A
Cover for 4x4 downspout	–	FGS-MCDS-AB	FGSO-MCDS-AB
Extended downspout	–	FGS-MDSP-EX-A	FGSO-MDSP-EX-A
Cover for 4x4 extended downspout	–	FGS-MCDS-EX-AB	FGSO-MCDS-EX-AB
Insertable downspout	–	FGS-MDSP-A/I	FGSO-MDSP-A/I
Trumpet flare used on both 4x4 and 4x6 downspouts; *no 4" junction kit required*	–	FGS-MTRM-A	FGSO-MTRM-A
Downspout exit junction kit	–	FGS-MJWR-A	FGSO-MJWR-A
4x4/4x6 downspout; *insert converts bottom of downspout to 2x2" without using 2" to 4" adapter, saving vertical space*	–	FGS-HDSI-AB	FGS-HDSI-AB
4x4 attachments			
Square to 2" round adapter with flex tube; *one 4x4 junction kit (FGS-MJWR-A) required to attach to a downspout drop*			
5' length	1	FGS-ASRI-5F	FGSO-ASRI-5F
10' length	1	FGS-ASRI-10F	FGSO-ASRI-10F
15' length	1	FGS-ASRI-15F	FGSO-ASRI-15F
Dual 2" flex tube attachment; *no 4x4 junction kit required*			
(2) 5' length	–	FGS-KT03-A	FGSO-KT03-A
(2) 10' length	–	FGS-KT03-A10F	FGSO-KT03-A10F
(2) 15' length	–	FGS-KT03-A15F	FGSO-KT03-A15F
Single 2" flex tube attachment; *no 4x4 junction kit required*			
5' length	–	FGS-KT03-A1	FGSO-KT03-A1
10' length	–	FGS-KT03-A1-10F	FGSO-KT03-A1-10F
15' length	–	FGS-KT03-A1-15F	FGSO-KT03-A1-15F
Quad 2" flex tube attachment; *no 4x4 junction kit required*			
(4) 5' length	–	FGS-KT03-A4-5F	FGSO-KT03-A4-5F
(4) 10' length	–	FGS-KT03-A4-10F	FGSO-KT03-A4-10F
(4) 15' length	–	FGS-KT03-A4-15F	FGSO-KT03-A4-15F
4x4 quad 7/8" flex tube attachment; *no 4x4 junction kit required*			
(4) 5' length	–	FGS-KT07-A4-5F	FGSO-KT07-A4-5F
(4) 10' length	–	FGS-KT07-A4-10F	FGSO-KT07-A4-10F
(4) 15' length	–	FGS-KT07-A4-15F	FGSO-KT07-A4-15F

*A third junction is needed if drop is to a fitting or straight section. This drop junction must be a junction type FGS-MJWR-A.

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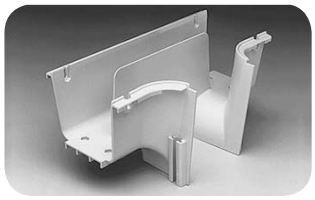
4x4 System

Downspouts and Attachments – 4" H x 4" W



Downspout
(FGS-MDSP-A)

Cover for 4x4 Downspout
(FGS-MCDS-AB)

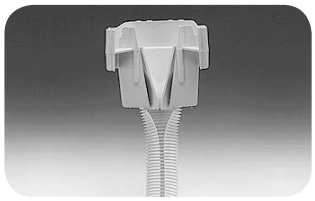
Extended Downspout
(FGS-MDSP-EX-A
shown with and without cover)

Insertable Downspout
(FGS-MDSP-A/I)

Trumpet Flare
(FGS-MTRM-A)

Downspout Exit Junction Kit
(FGS-MJWR-A)

4x4/4x6 Downspout Insert
(FGS-HDSI-AB)



4" Square to 2" Round Adapter with Flex Tube
(FGS-ASRI
requires FGS-MJWR-A
Junction Kit)

Dual 2" Flex Tube Attachment
(FGS-KT03-A)

Single 2" Flex Tube Attachment
(FGS-KT03-A1)

2" Quad Flex Tube Attachment
(FGS-KT03-A4)

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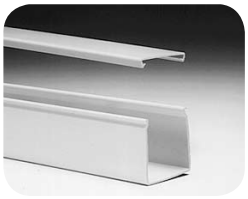
4x4 System

Straight Section – 4" H x 4" W

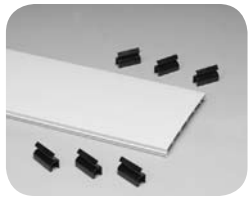
The unique four-channel design of the 4x4 FiberGuide® straight section allows the standard system to be attached to the support structure without the need to cut or drill any holes within the trough. This ensures that the patch cords will not come in contact with any screw heads or bolts, an important consideration in 4x4 systems where higher cable counts apply increased pressure on patch cords at the bottom of the trough.



Horizontal Straight Section
(FGS-MSHS-A)

Expandable Straight Section
(FGS-MVAR-A)

Hinged Cover for Horizontal Straight Section
(FGS-MSNC-A)



Snap-On Cover for Horizontal Straight Section
(FGS-MSSC-A)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x4 straight section		
Horizontal straight section; *6' long, cover sold seperately*	FGS-MSHS-A	FGSO-MSHS-A
Expandable straight section	FGS-MVAR-A	FGSO-MVAR-A
4x4 accessories		
Hinged cover kit for horizontal straight section; *includes three mounting hinges and three clips*	FGS-MSNC-A	FGSO-MSNC-A
Snap-on cover kit for horizontal straight section; *includes six capture clips with mounting clasps*	FGS-MSSC-A	FGSO-MSSC-A
Kit - 10 black capture clips*	FGS-DHCP	FGS-DHCP
Kit - 10 black capture clips and 10 hinges*	FGS-DHHC (Yellow Hinge)	FGSO-DHHC (Orange Hinge)

*See drawings on page 82 for more detail on how capture clips and hinges are used.

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4x4 System

Snap-Fit™ Junction – 4" H x 4" W

The Snap-Fit™ junction assembly is available for the 4-inch FiberGuide® system. The Snap-Fit junction is a completely tool-less junction. No additional tools are required for installation or removal. The junction exhibits superior holding force and accommodates support brackets. A warning label indicating caution around fibre optic cable is included with each junction kit.

Snap-Fit Junction
(FGS-MFAW-A)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x4 Snap-Fit™ junction	FGS-MFAW-A	FGSO-MFAW-A

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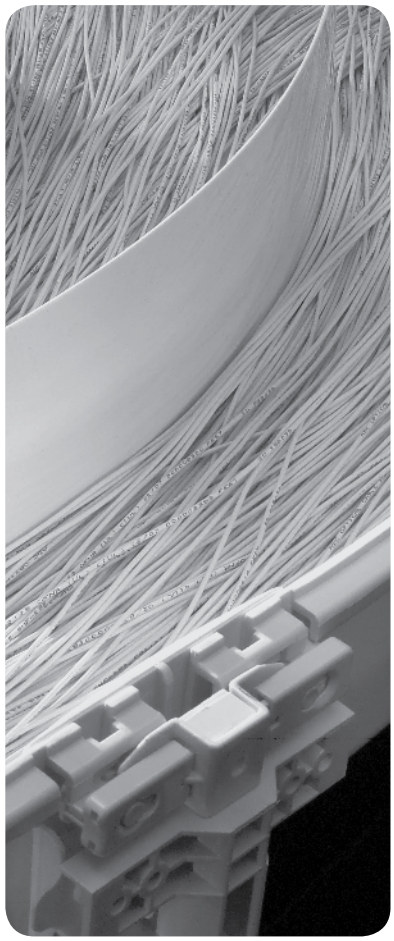
4x6 System



Fittings 38

Downspouts and Attachments 40

Straight Section 42

Snap-Fit™ Junction 43

4x6 System
Fittings – 4" H x 6" W

Ordering Information

Description	Number of Junctions	Product Number				
		Yellow System	Yellow System Snap-on Cover	Orange System	Orange System Snap-on Cover	Fixed Metal Cover
4x6 fittings						
Horizontal T	3	FGS-MHRT-B	FGS-SHRT-B	FGSO-MHRT-B	FGSO-SHRT-B	FGS-CHRT-B
Horizontal cross	4	FGS-MHXP-B	FGS-SHXP-B	FGSO-MHXP-B	FGSO-SHXP-B	FGS-CHXP-B
90° horizontal elbow	2	FGS-MH9E-B	FGS-SH9E-B	FGSO-MH9E-B	FGSO-SH9E-B	FGS-CH9E-B
90° up elbow metal cover included	2	FGS-MU9E-B	FGS-SU9E-B	FGSO-MU9E-B	FGSO-SU9E-B	FGS-CU9E-B
90° down elbow	2	FGS-MD9E-B	FGS-SD9E-B	FGSO-MD9E-B	FGSO-SD9E-B	FGS-CD9E-B
45° horizontal elbow	2	FGS-MH4E-B	FGS-SH4E-B	FGSO-MH4E-B	FGSO-SH4E-B	FGS-CH4E-B
45° up elbow metal cover included	2	FGS-MU4E-B	FGS-SU4E-B	FGSO-MU4E-B	FGSO-SU4E-B	FGS-CU4E-B
45° down elbow	2	FGS-MD4E-B	FGS-SD4E-B	FGSO-MD4E-B	FGSO-SD4E-B	FGS-CD4E-B
4x6 conversions						
4x4 to 4x6 straight adapter	(1) 4x4, (1) 4x6	FGS-MDSA-AB	FGS-SDSA-AB	FGSO-MDSA-AB	FGSO-SDSA-AB	FGS-CDSA-AB
4x12 to single 4x6 adapter	–	FGS-MDSA-FB	FGS-SDSA-FB	FGSO-MDSA-FB	FGSO-SDSA-FB	–
4x6 expandable straight section	2	FGS-MVAR-B	–	FGSO-MVAR-B	–	–
4" Cut-in T; *assembly hardware included*	–	FGS-MHIS-A	–	FGSO-MHIS-A	–	–
6" Cut-in T; *assembly hardware included*	–	FGS-MHIS-B	–	FGSO-MHIS-B	–	–
12" Cut-in T; *assembly hardware included*	–	FGS-MHIS-F	–	FGSO-MHIS-F	–	–
Cut-in T fixture	–	FGS-MHIS-JIG-A/B/F	–	FGS-MHIS-JIG-A/B/F	–	–
4x6 end cap	–	FGS-HMEC-B	–	FGS-HMEC-B	–	–

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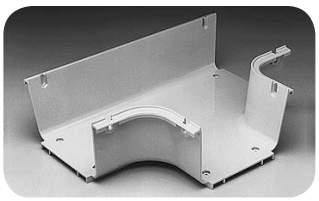
4x6 System

Fittings – 4" H x 6" W



Horizontal T
(FGS-MHRT-B)

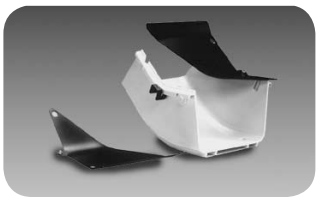
Horizontal Cross
(FGS-MHXP-B)

90° Horizontal Elbow
(FGS-MH9E-B)

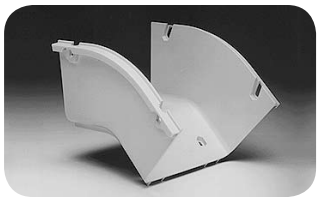
90° Up Elbow
Cover Included
(FGS-MU9E-B)

90° Down Elbow
(FGS-MD9E-B)

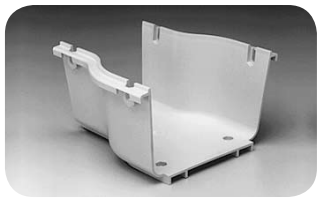
45° Horizontal Elbow
(FGS-MH4E-B)



45° Up Elbow
Cover Included
(FGS-MU4E-B)



45° Down Elbow
(FGS-MD4E-B)



4x4 to 4x6 Straight Adapter
(FGS-MDSA-AB)

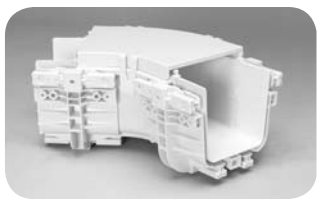
Expandable Straight Section
(FGS-MVAR-B)

6" Cut-in T
(FGS-MHIS-B)

Cut-in T Fixture
(FGS-MHIS-JIG-A/B/F shown on a straight section)

4x12 to Single 4x6 Adapter
(FGS-MDSA-FB)
(Cover: FGS-SDSA-FB)

End Cap
(FGS-HMEC-B)



Snap-on Plastic Cover
(FGS-SH4E-B shown attached to 45° horizontal elbow with junctions)

4x6 System

Downspouts and Attachments – 4" H x 6" W

4x6 downspouts and attachments feed fibre from overhead straight sections into fibre optic equipment below. All 4x6 downspouts feature 4-inch exits and attach to the 4-inch x 4-inch attachments listed below.

Ordering Information

Description	Number of Junctions	Product Number	
		Yellow System	Orange System
4x6 downspouts			
Downspout *Note: If a trumpet flare is required use a 4x4 flare (FGS-MTRM-A or FGSO-MTRM-A)*	2*	FGS-MDSP-B	FGSO-MDSP-B
Cover for 4x6 downspout and dual downspout	–	FGS-MCDS-AB**	FGSO-MCDS-AB**
Extended downspout	2	FGS-MDSP-EX-B	FGSO-MDSP-EX-B
Cover for 4x6 extended downspout	–	FGS-MCDS-EX-AB	FGSO-MCDS-EX-AB
Insertable downspout	–	FGS-MDSP-B/I	FGSO-MDSP-B/I
Dual drop downspout	2*	FGS-MDSP-2B	FGSO-MDSP-2B
Trumpet flare for dual drop downspout (kit of 2)	–	FGS-MTRM-2B	FGSO-MTRM-2B
Dual drop downspout with divider	2	FGS-MDSP-2B-IMP	FGSO-MDSP-2B-IMP
Trumpet flare for dual drop downspout with divider (kit of 2)		FGS-MTRM-2B-IMP	FGSO-MTRM-2B-IMP
Downspout with exit junction		FGS-MJWR-A	FGSO-MJWR-A
4x4/4x6 downspout insert; *converts bottom of downspout to 2x2 without using 2" to 4" adapter, saving vertical space*		FGS-HDSI-AB	FGS-HDSI-AB
Trumpet flare; *used on both 4x4 and 4x6 downspouts — no 4" junction kit required*		FGS-MTRM-A	FGSO-MTRM-A
4x6 attachments			
4x4 square to 2" round adapter with flex tube; *one 4x4 junction kit (FGS-MJWR-A) required to attach to a downspout drop*			
5' length	1	FGS-ASRI-5F	FGSO-ASRI-5F
10' length	1	FGS-ASRI-10F	FGSO-ASRI-10F
15' length	1	FGS-ASRI-15F	FGSO-ASRI-15F
4x4 dual 2" flex tube attachment; *no 4x4 junction kit required*			
(2) 5' length	–	FGS-KT03-A	FGSO-KT03-A
(2) 10' length	–	FGS-KT03-A10F	FGSO-KT03-A10F
(2) 15' length	–	FGS-KT03-A15F	FGSO-KT03-A15F
4x4 single 2" flex tube attachment; *no 4x4 junction kit required*			
5' length	–	FGS-KT03-A1	FGSO-KT03-A1
10' length	–	FGS-KT03-A1-10F	FGSO-KT03-A1-10F
15' length	–	FGS-KT03-A1-15F	FGSO-KT03-A1-15F
4x4 quad 2" flex tube attachment; *no 4x4 junction kit required*			
(4) 5' length	–	FGS-KT03-A4-5F	FGSO-KT03-A4-5F
(4) 10' length	–	FGS-KT03-A4-10F	FGSO-KT03-A4-10F
(4) 15' length	–	FGS-KT03-A4-15F	FGSO-KT03-A4-15F
4x4 quad 7/8" flex tube attachment; *no 4x4 junction kit required*			
(4) 5' length	–	FGS-KT07-A4-5F	FGSO-KT07-A4-5F
(4) 10' length	–	FGS-KT07-A4-10F	FGSO-KT07-A4-10F
(4) 15' length	–	FGS-KT07-A4-15F	FGSO-KT07-A4-15F

*A 4x4 junction is needed to drop to a fitting or a straight section. This drop junction must be a junction type FGS-MJWR-A.

**Dual downspout requires two covers.

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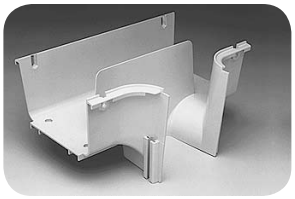
4x6 System

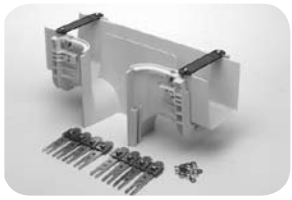
Downspouts and Attachments – 4" H x 6" W



Downspout
(FGS-MDSP-B)

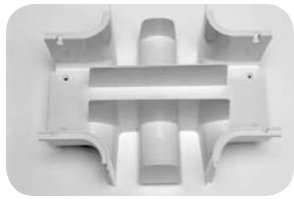
Cover for 4x6 Downspout
(FGS-MCDS-AB)

Extended Downspout
(FGS-MDSP-EX-B
shown with and without cover)



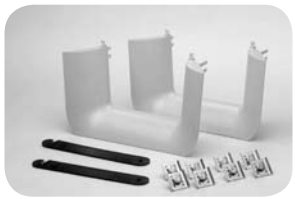
Insertable Downspout
(FGS-MDSP-B/I)

Dual Downspout
(FGS-MDSP-2B)



Dual Downspout with Divider
(FGS-MDSP-2B-IMP)

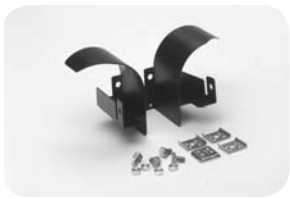
Trumpet Flare Kit for 4x6 Dual Downspout
(FGS-MTRM-2B)



Trumpet Flare Kit for Dual Downspout with Divider
(FGS-MTRM-2B-IMP)

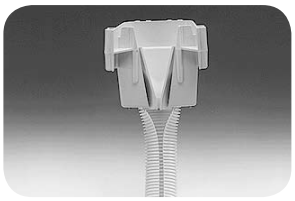
Single 2" Flex Tube Attachment
(FGS-KT03-A1)

Trumpet Flare Kit
(FGS-MTRM-A)



4x4/4x6 Downspout Insert
(FGS-HDSI-AB)

Downspout Exit Junction Kit
(FGS-MJWR-A)



4" Square to 2" Round Adapter with Flex Tube
(FGS-ASRI requires
FGS-MJWR-A junction kit)

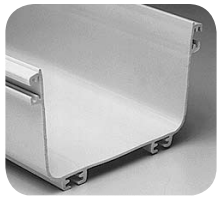
Dual 2" Flex Tube Attachment
(FGS-KT03-A)

2" Quad Flex Flex Tube Attachment
(FGS-KT03-A4)

4x6 System

Straight Section – 4" H x 6" W

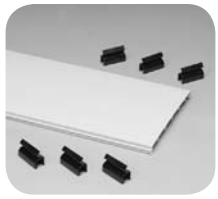
The unique four-channel design of the 4x6 FiberGuide® straight section allows the standard system to be attached to the support structure without the need to cut or drill any holes within the trough. This ensures that the patch cords will not come in contact with any screw heads or bolts, an important consideration in 4x6 systems where higher cable counts apply increased pressure on patch cords at the bottom of the trough.



Horizontal Straight Section
(FGS-MSHS-B)

Expandable Straight Section
(FGS-MVAR-B)

Hinged Cover Kit for Horizontal Straight Section
(FGS-MSNC-B/G)



6" Snap-on Cover for Horizontal Straight Section
(FGS-MSSC-B/G)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x6 straight sections		
Horizontal straight section; *6' long, cover sold seperately*	FGS-MSHS-B	FGSO-MSHS-B
Expandable straight section	FGS-MVAR-B	FGSO-MVAR-B
Slack storage straight section	FGS-MSHS-STOR-B	FGSO-MSHS-STOR-B
4x6 accessories		
Hinged cover kit for horizontal straight section; *includes three mounting hinges and three clips*	FGS-MSNC-B/G	FGSO-MSNC-B/G
6" snap-on cover kit for horizontal straight section; *includes six capture clips with mounting clasps*	FGS-MSSC-B/G	FGSO-MSSC-B/G
Kit - 10 black capture clips*	FGS-DHCP	FGS-DHCP
Kit - 10 black capture clips and 10 hinges*	FGS-DHHC (Yellow Hinge)	FGSO-DHHC (Orange Hinge)

*See drawings on page 82 for more detail on how capture clips and hinges are used.

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4x6 System

Snap-Fit™ Junction – 4" H x 6" W

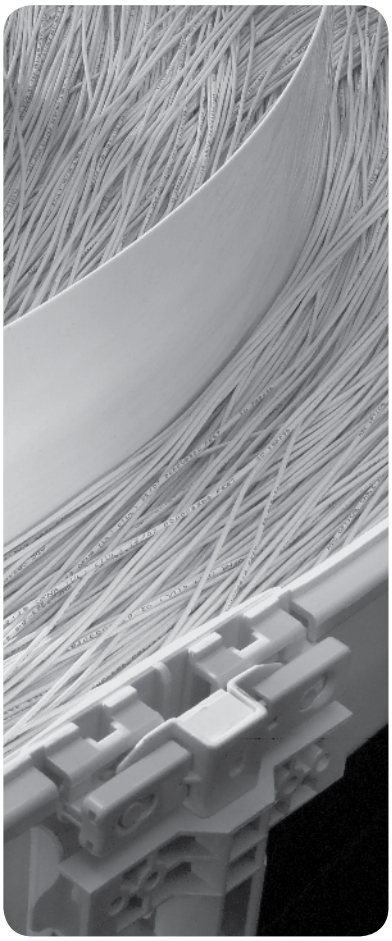
The Snap-Fit™ junction assembly is available for the 6-inch FiberGuide® system. The new junction is a completely tool-less junction. No additional tools are required for installation or removal. The Snap-Fit Junction exhibits superior holding force and accommodates support brackets. A warning label indicating caution around fibre optic cable is included with each junction kit.

Snap-Fit Junction
(FGS-MFAW-B)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x6 Snap-fit junction	FGS-MFAW-B	FGSO-MFAW-B

4x12 System



Fittings 46

Downspouts and Attachments 48

Straight Section 50

Snap-Fit™ Junction 51

4x12 System
Fittings – 4" H x 12" W

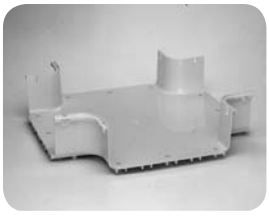
Ordering Information

Description	Number of Junctions	Product Number			
		Yellow System	Yellow System Snap-on Cover	Orange System	Orange System Snap-on Cover
4x12 fittings					
Horizontal T	3	FGS-MHRT-F	FGS-SHRT-F	FGSO-MHRT-F	FGSO-SHRT-F
Horizontal cross	4	FGS-MHXP-F	FGS-SHXP-F	FGSO-MHXP-F	FGSO-SHXP-F
90° horizontal elbow	2	FGS-MH9E-F	FGS-SH9E-F	FGSO-MH9E-F	FGSO-SH9E-F
90° down elbow	2	FGS-MD9E-F	FGS-SD9E-F	FGSO-MD9E-F	FGSO-SD9E-F
45° horizontal elbow	2	FGS-MH4E-F	FGS-SH4E-F	FGSO-MH4E-F	FGSO-SH4E-F
45° up elbow	2	FGS-MU4E-F	FGS-SU4E-F	FGSO-MU4E-F	FGSO-SU4E-F
45° down elbow	2	FGS-MD4E-F	FGS-SD4E-F	FGSO-MD4E-F	FGSO-SD4E-F
Horizontal T with single 6" exit	(2) 4x12, (1) 4x6	FGS-MHRT-F/B	FGS-SHRT-F/B	FGSO-MHRT-F/B	FGSO-SHRT-F/B
Horizontal cross with two 6" exits	(2) 4x12, (2) 4x6	FGS-MHXP-B/F	FGS-SHXP-B/F	FGSO-MHXP-B/F	FGSO-SHXP-B/F
4x12 conversions					
4x12 to dual 4x6 adapter	(1) 4x12, (2) 4x6	FGS-MDSA-F2B	FGS-SDSA-F2B	FGSO-MDSA-F2B	FGSO-SDSA-F2B
4x12 to single 4x6 adapter	(1) 4x12, (1) 4x6	FGS-MDSA-FB	FGS-SDSA-FB	FGSO-MDSA-FB	FGSO-SDSA-FB
4x12 to 4x6 right adapter; *includes fastening hardware*		FGS-MDSA-FB-R		FGSO-MDSA-FB-R	
Fixed metal cover for right adapter		FGS-VDSA-FB-R		FGS-VDSA-FB-R	
4x12 to 4x6 left adapter; *includes fastening hardware*		FGS-MDSA-FB-L		FGS-MDSA-FB-L	
Fixed metal cover for left adapter		FGS-MDSA-FB-L		FGS-MDSA-FB-L	
Expandable straight section	2	FGS-MVAR-B	–	FGSO-MVAR-B	–
4" Cut-in T; *assembly hardware included*	–	FGS-MHIS-A	–	FGSO-MHIS-A	–
6" Cut-in T; *assembly hardware included*	–	FGS-MHIS-B	–	FGSO-MHIS-B	–
12" Cut-in T; *assembly hardware included*	–	FGS-MHIS-F	–	FGSO-MHIS-F	–
Cut-in T fixture	–	FGS-MHIS-JIG-A/B/F	–	FGS-MHIS-JIG-A/B/F	–
4x12 end cap		FGS-HMEC-F		FGS-HMEC-F	
4x12 variable support locator kits for; *Each kit contains all necessary mounting hardware. Fitting sold separately.*					
FGS-MDSP-F (downspout)		FGS-MDSP-F-VS		FGS-MDSP-F-VS	
FGS-MHRT-F (horizontal T)		FGS-MHRT-F-VS		FGS-MHRT-F-VS	
FGS-MHXP-F (horizontal cross)		FGS-MHXP-F-VS		FGS-MHXP-F-VS	
FGS-MH9E-F (90° horizontal elbow)		FGS-MH9E-F-VS		FGS-MH9E-F-VS	
FGS-MHRT-F/B (horizontal T – 6"/12")		FGS-MHRT-F/B-VS		FGS-MHRT-F/B-VS	
FGS-MHXP-B/F (horizontal cross– 6"/12")		FGS-MHXP-B/F-VS		FGS-MHXP-B/F-VS	

4x12 System

Fittings – 4" H x 12" W

Horizontal T
(FGS-MHRT-F)

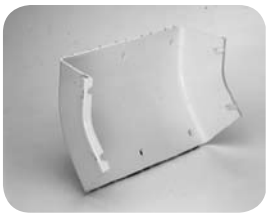


Horizontal Cross
(FGS-MHXP-F)

90° Horizontal Elbow
(FGS-MH9E-F)

90° Down Elbow
(FGS-MD9E-F)

45° Horizontal Elbow
(FGS-MH4E-F)



45° Up Elbow
(FGS-MU4E-F)

45° Down Elbow
(FGS-MD4E-F)

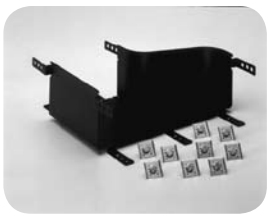
Horizontal T with Single 6" Exit
(FGS-MHRT-F/B)

Horizontal Cross with Two 6" Exits
(FGS-MHXP-B/F)

4x12 to Dual 4x6 Adapter
(FGS-MDSA-F2B)

4x12 to Single 4x6 Adapter
(FGS-MDSA-FB)

4x12 to 4x6 Adapter – Right
(FGS-MDSA-FB-R)



4x12 to 4x6 Adapter – Left
(FGS-MDSA-FB-L)

End Cap
(FGS-HMEC-F)

Expandable Straight Section
(FGS-MVAR-F)

12" Cut-in T
(FGS-MHIS-F)

Cut-in T Fixture
(FGS-MHIS-JIG-A/B/F shown on a straight section)

Snap-on Cover
(FGS-SH4E-F shown separate)

Snap-on Cover Installation

Snap-on Cover
(FGS-SH4E-F shown installed)

4x12 System

Downspouts and Attachments – 4" H x 12" W

An array of 4x12 downspouts and attachments are available to feed fibre from overhead straight sections into fibre optic equipment below. The 4x12 downspout features a 4x6 exit and accepts the 4x6 exit attachments listed below.

Ordering Information

Description	Number of Junctions	Yellow System Product Number	Orange System Product Number
4x12 downspouts			
Downspout	2*	FGS-MDSP-F	FGSO-MDSP-F
Cover for 4x12 downspout	–	FGS-SDSP-F	FGSO-SDSP-F
Insertable downspout	–	FGS-MDSP-F/I	FGSO-MDSP-F/I
Trumpet flare	–	FGS-MTRM-F	FGSO-MTRM-F
Downspout with rear T	–	FGS-MDRT-F	FGSO-MDRT-F
Island T with spool and factory installed trumpet flare; *designed for use over ADC KRONE Next Generation Frame Storage Bay*	–	FGS-ISLAND-F	FGSO-ISLAND-F
Island T with trumpet and dividing spool; *designed for use over ADC KRONE 600 mm wide Next Generation Frame – Variable Support Locator Kit included*		FGS-ISLAND-F-513	FGSO-ISLAND-F-513
Island T with recessed dividing spool		FGS-ISLAND3-F	FGSO-ISLAND3-F
4x12 attachments			
4x6 dual 2" flex tube attachment			
5' length	–	FGS-KT03-B	FGSO-KT03-B
10' length	–	FGS-KT03-B-10F	FGSO-KT03-B-10F
15' length	–	FGS-KT03-B-15F	FGSO-KT03-B-15F
4x6 trumpet flare kit; *used on 4x12 downspouts*		FGS-MTRM-B	FGSO-MTRM-B
4x12 to 4x4 downspout converter; *converts downspout opening to accept 4x4 slotted duct*	–	FGS-HDSI-F/D	FGS-HDSI-F/D
4x12 to 2x2 downspout converter	–	FGS-HDSI-F/C	FGS-HDSI-F/C

*An additional junction is needed if drop is to fitting or straight section. This 4x6 junction must be a junction type FGS-MFAW-B.

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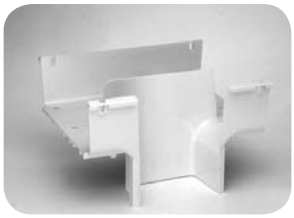
4x12 System

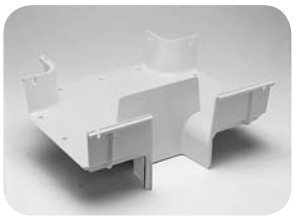
Downspouts and Attachments – 4" H x 12" W



Downspout
(FGS-MDSP-F)

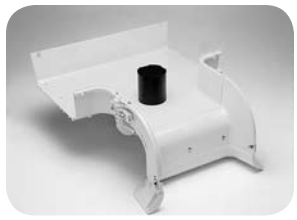
Cover for 4x12 Downspout
(FGS-SDSP-F)

Trumpet Flare
(FGS-MTRM-F)

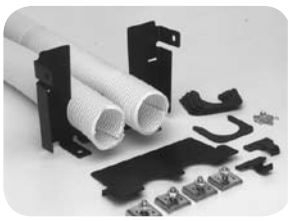


Downspout with Rear T
(FGS-MDRT-F)

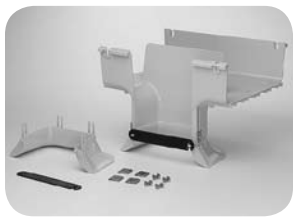
Island T
(FGS-ISLAND-F)



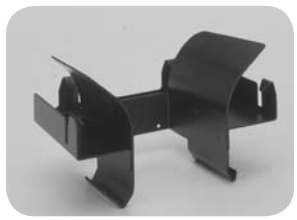
Island T with Recessed Dividing Spool
(FGS-ISLAND3-F shown with 12" Junction, 90° Down Elbow and Trumpet Flare)



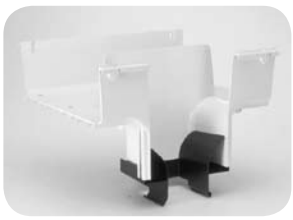
4x6 Dual 2" Flex Tube Attachment
(FGS-KT03-B)



4x6 Trumpet Flare Kit
(FGS-MTRM-B shown alone and attached to 4x12 Downspout)



4x12 to 4x4 Downspout Converter
(FGS-HDSI-F/D)



The FGS-HSDI-F/D attached to both the 4x12 downspout and the 4x4 slotted duct without the use of hardware

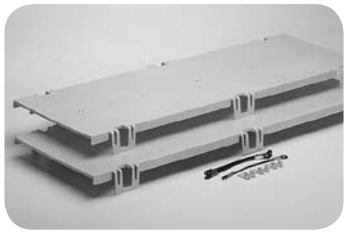
4x12 System

Straight Section – 4" H x 12" W

The unique nine-channel design of the 4x12 FiberGuide® straight section provides unmatched strength and allows the attachment of support structure without the need to cut or drill holes within the raceway. This ensures that the patch cords will not come in contact with any screw heads or bolts, an important consideration in 4x4, 4x6, and 4x12 systems where higher cable counts apply increased pressure on the patch cords at the bottom of the raceway.

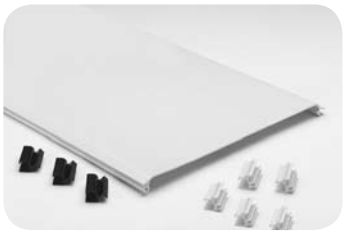
The 4x12 system covers feature a snap-on design. This allows the cover to be used in environments with limited headroom. Two 3-foot cover sections come with each order, making it easy for one person to remove the covers. Each cover kit includes a tether kit. The straight section covers are designed to be placed over the 4x12 downspouts, speeding installation time by reducing the number of measurements and cuts that need to be made.

Horizontal Straight Section
(FGS-MSHS-F)

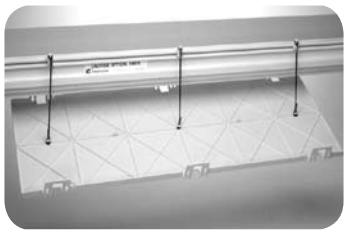


Horizontal Straight Section Cover
(FGS-MSSC-F includes two 3' Lengths and Tethering Hardware)

Expandable Straight Section
(FGS-MVAR-F)



12" Hinged Cover for Horizontal Straight Section
(FGS-MSNC-F)



Straight Section Cover in Tethered Position

Straight Section Cover Attached to Straight Section

Ordering Information

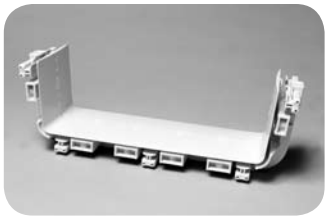
Description	Product Number	
	Yellow System	Orange System
4x12 straight section		
Horizontal straight section; *6' long, cover sold seperately*	FGS-MSHS-F	FGSO-MSHS-F
Expandable straight section	FGS-MVAR-F	FGSO-MVAR-F
Slack storage straight section	FGS-MSHS-STOR-F	FGSO-MSHS-STOR-F
4x12 accessories		
Hinged cover kit for horizontal straight section; *includes five mounting hinges and three clips*	FGS-MSNC-F	FGSO-MSNC-F
Snap-on cover kit* for horizontal straight section; *includes 3' covers, optional tethering kit*	FGS-MSSC-F	FGSO-MSSC-F
Kit - 10 black capture clips*	FGS-DHCP	FGS-DHCP
Kit - 10 black capture clips and 10 hinges	FGS-DHHC	FGSO-DHHC

*See drawings on page 87 for more detail on how capture clips and hinges are used.

4x12 System

Snap-Fit™ Junction – 4" H x 12" W

The new Snap-Fit™ junction is available for the 12-inch FiberGuide® system. The Snap-Fit junction is a completely tool-less junction. No additional tools are required for installation or removal. The Snap-Fit junction exhibits superior holding force and accommodates support brackets.

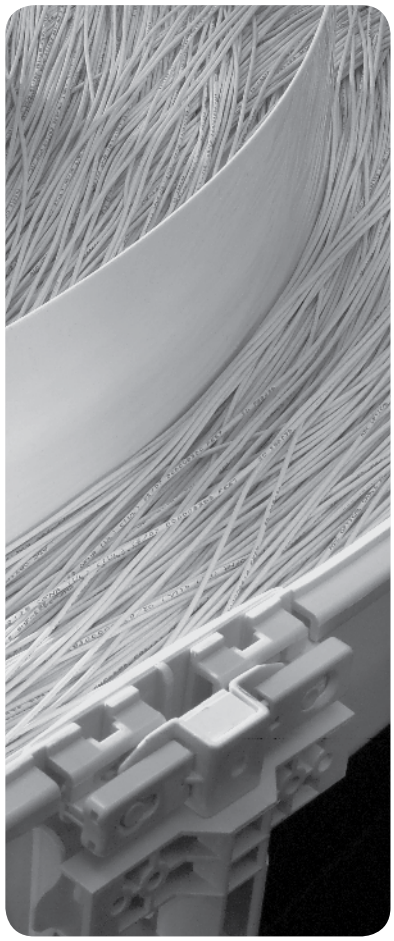


4x12 Snap-Fit Junction
(FGS-MFAW-F)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x12 Snap-Fit™ junction	FGS-MFAW-F	FGSO-MFAW-F

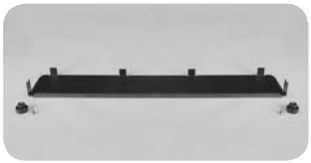
4x24 System



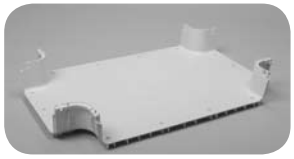
Fittings 54
Downspouts 55
Straight Section and Snap-Fit™ Junction 56

4x24 System

Fittings – 4" H x 24" W

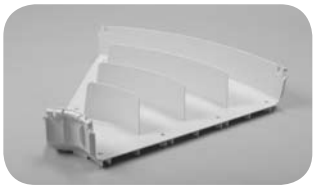


End Cap
(FGS-HMEC-H)

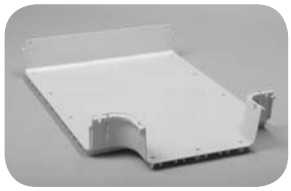


Horizontal Cross with Dual 12" Exits
(FGS-MHXP-F/H)

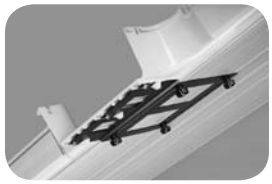
Horizontal Cross
(FGS-MHXP-H)



45° Horizontal Elbow
(FGS-MH4E-H)



Horizontal T with Single 12" Exit
(FGS-MHRT-H/F)



12" Cut-in T
(FGS-MHIS-F/H)

Ordering Information

Description	Product Number	
	Yellow System	Orange System
4x24 fittings		
45° horizontal ebow	FGS-MH4E-H	FGSO-MH4E-H
Horizontal T with single 12" exit	FGS-MHRT-H/F	FGSO-MHRT-H/F
Horizontal T with three 24" exits	FGS-MHRT-H	FGSO-MHRT-H
Horizontal cross	FGS-MHXP-H	FGSO-MHXP-H
Horizontal cross with dual 12" exits	FGS-MHXP-F/H	FGSO-MHXP-F/H
45° up elbow	FGS-MU4E-H	FGSO-MU4E-H
45° down elbow	FGS-MD4E-H	FGSO-MD4E-H
4x24 conversions		
12" cut-in T for 4x24*	FGS-MHIS-F/H	FGSO-MHIS-F/H
6" cut-in T for 4x24*	FGS-MHIS-B/H	FGSO-MHIS-B/H
4" cut-in T for 4x24*	FGS-MHIS-A/H	FGSO-MHIS-A/H
4x24 to 4x12 adapter	FGS-MDSA-HF	FGSO-MDSA-HF
4x24 end cap	FGS-HMEC-H	FGSO-HMEC-H

*Designed exclusively for the 4x24" system.

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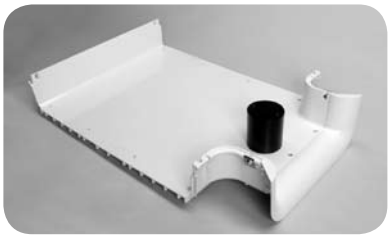
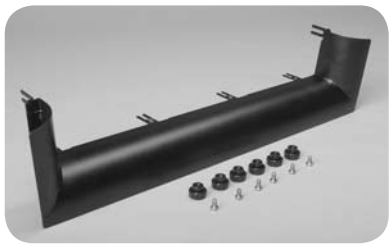
4x24 System

Downspouts – 4" H x 24" W

4x24 downspouts and attachments feed fibre from overhead straight sections into fibre optic equipment below.



Island T with Single 12" Exit
(FGS-ISLAND-H/F)



Trumpet Flare
(FGS-MTRM-H)

Ordering Information

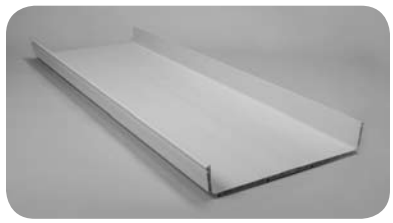
Description	Product Number	
	Yellow System	**Orange System**
Island T with single 12" exit	FGS-ISLAND-H/F	FGSO-ISLAND-H/F
Trumpet flare	FGS-MTRM-H	FGS-MTRM-H

4x24 System

Straight Section and Snap-Fit™ Junction – 4" H x 24" W

Straight Section

The unique double wall channel design of the 4x24 straight section provides exceptional strength and durability for high fibre count applications and allows the standard system to be attached to the support structure without the need to cut or drill any holes within the trough. The six channel design ensures that the patch cords will not come in contact with any screw heads or bolts, an important consideration in 4x24 systems where higher cable counts apply increased pressure on patch cords at the bottom of the trough.



Straight Section
(FGS-MSHS-H)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x24 straight section; horizontal straight section, *6' long*	FGS-MSHS-H	FGSO-MSHS-H

Snap-fit Junction

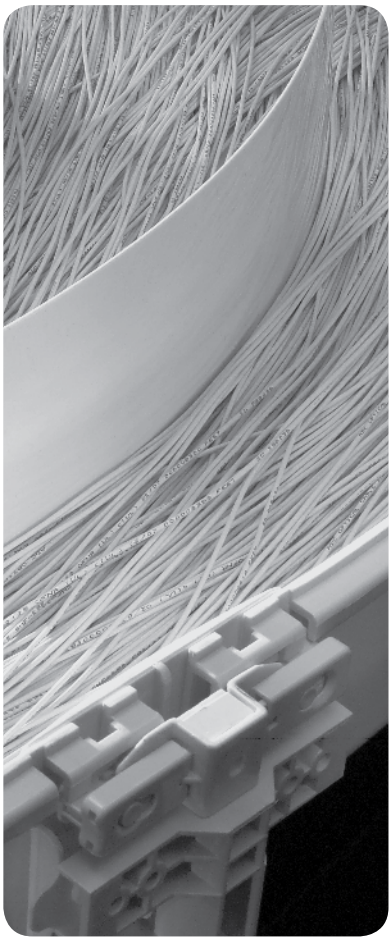
The Snap-Fit™ Junction assembly is available for the 24-inch FiberGuide® System. The Snap-Fit junction is a completely tool-less junction. No additional tools are required for installation or removal. The junction exhibits superior holding force and accommodates support brackets. A warning label is included with each junction kit.

Snap-Fit junction
(FGS-MFAW-H)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
4x24 Snap-Fit™ junction	FGS-MFAW-H	FGSO-MFAW-H

Express Exit™ Family



4-Inch Express Exit 58

2-Inch Express Exit 59

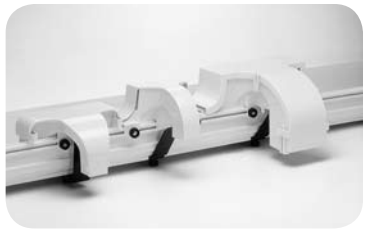
Low-Profile Express Exit 59

Attachments 60

Express Exit™ Family

For 4x4, 4x6, 4x12, and 4x24 Systems

ADC KRONE's patented* Express Exit™ family accommodates various raceway environments and applications. By simply securing an Express Exit™ to the sidewall of any 4x4, 4x6, 4x12, or 4x24 FiberGuide® straight section, jumpers can be permanently or temporarily routed to fibre optic terminal (FOT) equipment below. No cutting of the FiberGuide® system is required. Positioning a drop with a member of the Express Exit™ family greatly simplifies installation, protects the integrity of fibres already present in the raceway, and increases overall flexibility of the raceway system. All Express Exits™ guarantee 2-inch bend radius protection.



Express Exit™ Family

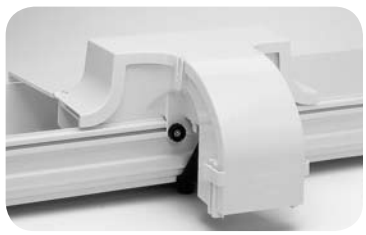
Express Exit™ Style	Height Above Sidewall	Exit Opening	3 mm Patch Cord Capacity	2 mm Patch Cord Capacity	Hinged Rear Cover	Exit Fin Inserts
2-Inch Express Exit™	4"	2" x 2"[1]	150	350	No	No
Low-Profile Express Exit™	2"	2" x 2"[1]	150	350	No	No
4-Inch Express Exit™	4"	4" x 4"[2]	300	700	Yes	Yes

[1]Accepts all standard 2x2" attachments.
[2]Accepts all standard 4x4" attachments.

4-Inch Express Exit™

The 4-Inch Express Exit™ is designed to distribute and manage medium cable counts to FOT or ODF equipment. It features a 4-inch by 4-inch exit opening to accept all standard 4x4 downspout attachments and includes insertable exit fins and removable rear cable guides for additional cable management.

See page 90 for 4-Inch Express Exit™ downspout attachments.



4-Inch Express Exit™

Ordering Information

Description	Product Number	
	Yellow System	Orange System
4-inch Express Exit™		
Express Exit™; *base, base cover, mounting hardware, support bracket, and exit inserts included*	FGS-MEXP-E-A/B/F	FGSO-MEXP-E-A/B/F
4-inch accessories		
Express Exit™ rear hinged cover kit; *one 4x4, 4x6, 4x12 rear hinged cover*	FGS-MEXC-E-A/B/F	FGSO-MEXC-E-A/B/F
Express Exit™ rear hinged cover for 4x4 raceway	FGS-MEXC-E-A	FGSO-MEXC-E-A
Express Exit™ rear hinged cover for 4x6 raceway	FGS-MEXC-E-B	FGSO-MEXC-E-B
Express Exit™ rear hinged cover for 4x12 raceway	FGS-MEXC-E-F	FGSO-MEXC-E-F

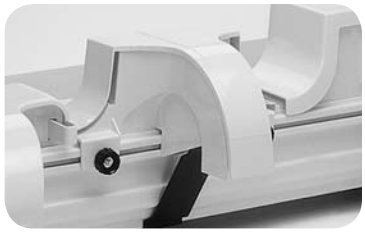
*Other patents pending.

Express Exit™ Family

For 4x4, 4x6, 4x12, and 4x24 Systems

2-Inch Express Exit™

The 2-Inch Express Exit™, ADC KRONE's initial offering in the Express Exit™ product family, accommodates up to 350, 2 mm patch cords. The patch cords are routed from a 4x4, 4x6, 4x12 or 4x24 straight section to FOT equipment below the raceway.



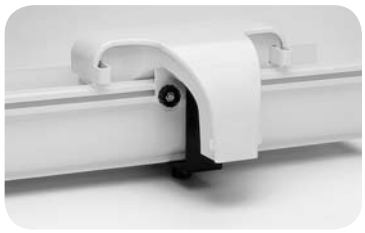
2-Inch Express Exit

Ordering Information

Description	Product Number	
	Yellow System	Orange System
2-Inch Express Exit™; *base, base cover, mounting hardware and support bracket included*	FGS-MEXP-A/B/F	FGSO-MEXP-A/B/F

Low-Profile Express Exit™

Designed for low-ceiling or height-restricted environments, the Low-Profile Express Exit™ features a front-removable cover and extends only 2 inches above the FiberGuide® straight section sidewall. It also includes removable rear cable guides for additional cable management.



Low-Profile Express Exit

Ordering Information

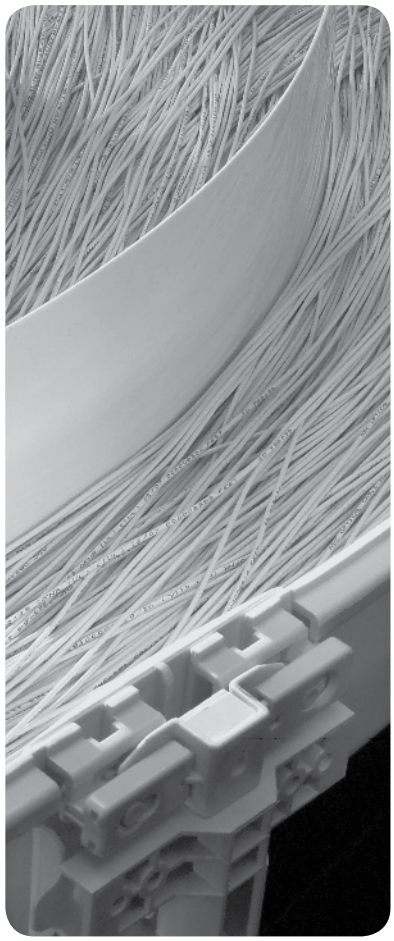
Description	Product Number	
	Yellow System	Orange System
Low-Profile Express Exit™; *base, base cover, mounting hardware and support bracket included*	FGS-MEXP-LP-A/B/F	FGSO-MEXP-LP-A/B/F

Attachments for 2-Inch Express Exit™ and Low-Profile Express Exit™

Ordering Information

Description	Product Number	
	Yellow System	Orange System
2x2 trumpet flare; *junction included*	FGS-MTRM-C	FGSO-MTRM-C
Single 2" flex tube attachment; *2" flex tube and a 2x2 junction to attach to Express Exit unit included*		
5' length	FGS-MEX1-C-5F	FGSO-MEX1-C-5F
10' length	FGS-MEX1-C-10F	FGSO-MEX1-C-10F
15' length	FGS-MEX1-C-15F	FGSO-MEX1-C-15F
Dual 7/8" flex tube attachment; *two lengths of 7/8" flex tube and a 2" junction to attach to Express Exit unit included*		
(2) 5' lengths	FGS-KT03-C	FGSO-KT03-C
(2) 10' lengths	FGS-KT03-C-10F	FGSO-KT03-C-10F
(3) 15' lengths	FGS-KT03-C-15F	FGSO-KT03-C-15F

Vertical Slotted Duct Systems

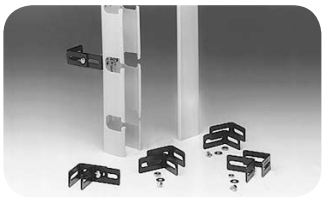


2x2 and 2x1 Vertical Slotted Duct Kits and Components 62

4x4 and 2x4 Vertical Slotted Duct Kits and Components 63

Vertical Slotted Duct Systems

2"x 2" and 2"x 1"

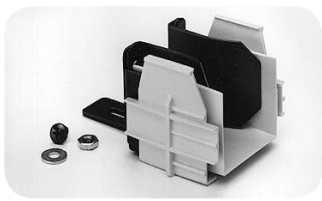


2"x 2" Vertical Slotted Duct Kit
4" Slot Spacing
(FGS-KTW1-C)

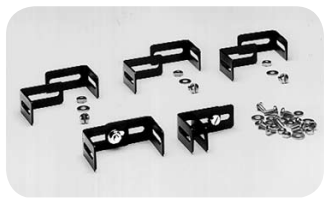
2"x 2" Vertical Slotted Duct Kit
1.5" Slot Spacing
(FGS-KTW1-CA)

2"x 2" Vertical Solid Duct Kit
(FGS-KTW4-C)

2"x 1" Vertical Slotted Duct Kit
(FGS-KTW1-E)



2"x 2" to 2"x 1" Conversion Piece
(FGS-ACC063)



2"x 2" Vertical Duct Universal Mounting Brackets
(FGS-HWMB-C)

Ordering Information

Description	Product Number	
	Yellow System	Orange System
Vertical slotted duct kits; *6' long – duct, cover, hose end clamp and five universal mounting brackets included*		
2x2 (4" slot spacing)	FGS-KTW1-C	FGSO-KTW1-C
2x2 (1.5" slot spacing)	FGS-KTW1-CA	FGSO-KTW1-CA
2x2 solid duct kit	FGS-KTW4-C	FGSO-KTW4-C
2x1 (4" slot spacing)	FGS-KTW1-E	FGSO-KTW1-E
2x1 solid duct kit	FGS-KTW4-E	FGSO-KTW4-E
Components		
2x2 to 2x1 conversion piece; *order when converting from 2x2 to 2x1 system*	FGS-ACC063	FGSO-ACC063
2x2 vertical slotted (4" slot spacing) duct; *6' long*	FGS-MSHS-C	FGSO-MSHS-C
2x2 vertical slotted (1.5" slot spacing) duct; *6' long*	FGS-MSHS-CA	FGSO-MSHS-CA
Cover for 2x2 duct; *6' long*	FGS-MSHC-C	FGSO-MSHC-C
2x2 vertical slotted duct cover clip	FGS-CLIP-C	FGS-CLIP-C
2x2 vertical slotted duct universal mounting bracket; *kit of 5 – typically five brackets used for every 6' section of 2x2 vertical duct*	FGS-HWMB-C	FGS-HWMB-C

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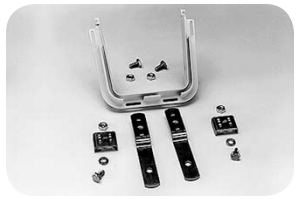
Vertical Slotted Duct Systems

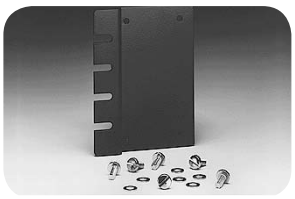
4"x 4" and 2"x 4"

4"x 4" Vertical Slotted Duct Kit
(FGS-KTW2-D)

2"x 4" Vertical Slotted Duct Kit
(FGS-KTW2-E)



4"x 4" Vertical Slotted Adapter Junction Kit
(FGS-MJWR-D)

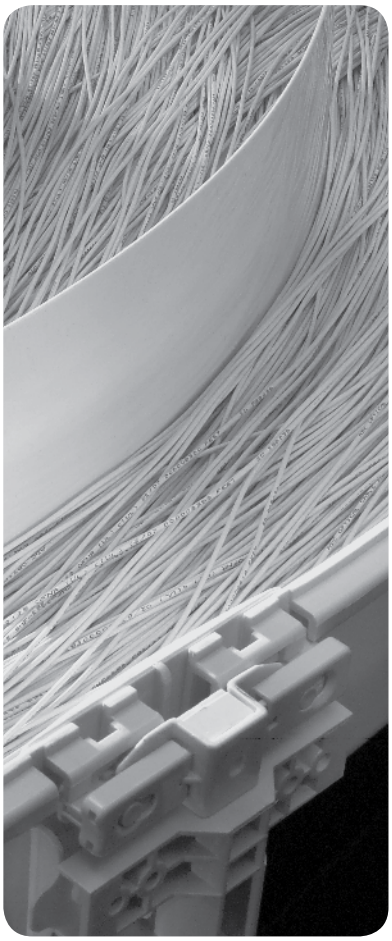


4"x 4" Vertical Duct Mounting Bracket
(FGS-HWMB-D)

Ordering Information

Description	Product Number	
	Yellow System	**Orange System**
Vertical slotted duct kits		
4x4 (4 slot spacing) duct kit; *6' long; duct, cover and three mounting brackets included*	FGS-KTW2-D	FGSO-KTW2-D
2x4 (1.5 slot spacing) duct kit; *6' long; duct, cover and three mounting brackets included*	FGS-KTW2-E	FGSO-KTW2-E
4x 4 adapter junction kit; *used to join 4x4 vertical duct to standard 4x4 FiberGuide® profile*	FGS-MJWR-D	FGSO-MJWR-D
Components		
4x4 vertical slotted duct; *6' long*	FGS-MSHS-D	FGSO-MSHS-D
Cover for 2x4 and 4x4 vertical slotted duct; *6' long*	FGS-MSHC-D	FGSO-MSHC-D
4x4 vertical slotted duct mounting bracket; *typically three brackets used for every 6' section of 4x4 vertical duct*	FGS-HWMB-D	FGS-HWMB-D
2x4 vertical slotted duct mounting bracket; *kit of 10*	FGS-HKW2-E	FGS-HKWZ-E
2x4 vertical slotted duct cap	FGS-HMEC-E	FGS-HMEC-E
2x4 vertical slotted duct cover clip	FGS-CLIP-E	FGS-CLIP-E
4x4 vertical slotted duct cover clip	FGS-CLIP-D	FGS-CLIP-D
2x4 vertical slotted trumpet flare	FGS-MTRM-E	FGSO-MTRM-E

Support Kits



2x2 System 66

2x6, 4x4, 4x6 Systems 68

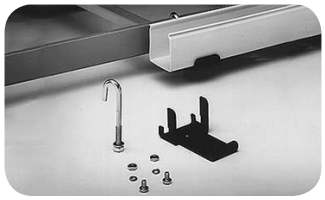
4x12 System 69

4x24 System 70

2x2 System Support Kits

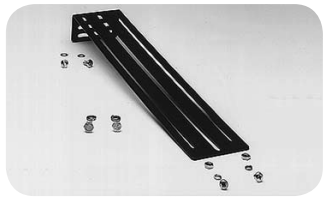
For Yellow and Orange Systems

Direct Support Kits



Ladder Rack Support Kit
(FGS-HLR2-C shown alone and attached to ladder rack)

Bay Top Support Short L Bracket Kit
(FGS-BTBS-C)



Bay Top Support Long L Bracket Kit
(FGS-BTBL-C)

Digital Cableway Support Kit
(FGS-HDCB-C)

Under Floor Support Kit
(FGS-HUFB-C shown alone and attached to .62" round pipe)

Ordering Information

Description	Product Number
2x2 direct support kits	
Ladder rack support kit; *for use with 3.5" (maximum) ladder rack*	FGS-HLR2-C
Bay top support short L bracket kit	FGS-BTBS-C
Bay top support long L bracket kit	FGS-BTBL-C
Digital cableway support kit	FGS-HDCB-C
Under floor support kit; *can be secured to .62" to 1.2" round or square post*	FGS-HUFB-C

Note: Recommended spacing of direct support kits is every 2' to 3'.
Custom brackets are available, please contact ADC KRONE.

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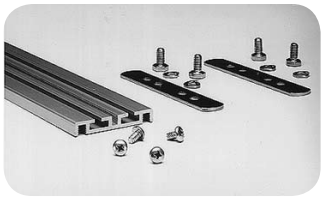
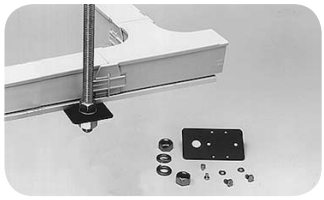
2x2 System Support Kits

For Yellow and Orange Systems

Aluminum Track Support Kit



Aluminum Track Support Kit
(FGS-HASK-C)



New Threaded Rod Bracket Kit
(FGS-HTR2-XX shown alone and attached to aluminum track support)

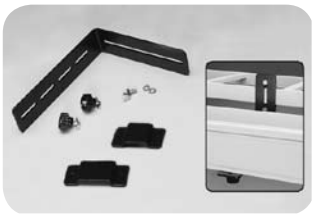
Existing Threaded Rod Bracket Kit
(FGS-HTR2-2-5/8)

Ordering Information

Description	Product Number
2x2 aluminum track support kit; *6' long, track connecting bar kit included – aluminum track is self-supporting for spans up to 6'*	FGS-HASK-C
2x2 bracket kits; *used to support aluminum track kits*	
New threaded rod bracket kit; 5/8"	FGS-HTR2-5/8
New threaded rod bracket kit; 1/2"	FGS-HTR2-1/2
Existing threaded rod bracket kit; 5/8" for up to two 2x2 FiberGuide® Systems	FGS-HTR2-2-5/8
Track connecting bar kit; *used to join two aluminum track kits; order only if extras are needed*	FGS-HAEJ-C

2x6, 4x4, 4x6 System Support Kits

For Yellow and Orange Systems



Ladder Rack Cantilever Support Bracket Kit
(FGS-HDLB-4)

L Bay Support Bracket Kit
(FGS-HLBK shown alone and attached to 4x4 FiberGuide®)

New Threaded Rod Bracket kit
(FGS-HNTR-XX shown alone and attached to threaded rod)

Existing Threaded Rod Bracket Kit
(FGS-HETR-XX shown alone and attached to threaded rod)

Modified New Threaded Rod Bracket Kit
(FGS-HNTR-5/8-A shown alone and attached to threaded rod)

Top Support Low Profile C-bracket Kit
(FGS-HNTS-XX-LP)

Top Support C-Bracket Kit
(FGS-HNTS-XX)

Modified Existing Threaded Rod Bracket Kit
(FGS-HETR-5/8-A shown alone and attached to threaded rod)

Center Support Bracket Kit
(FGS-HTUB-XX)

Ordering Information

Description	Product Number
2x6, 4x4, 4x6 system support kits	
Ladder rack cantilever support bracket kit	FGS-HDLB-3
L bay support bracket kit	FGS-HLBK
New threaded rod bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm, 18 mm)*	FGS-HNTR-XX
Existing threaded rod bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HETR-XX
Modified new threaded rod bracket kit; *5/8"*	FGS-HNTR-5/8-A
Top support low-profile C-bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HNTS-XX-LP
Top support C-bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HNTS-XX
Modified existing threaded rod bracket kit; *5/8"*	FGS-HETR-5/8-A
Center support bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm, 20 mm)*	FGS-HTUB-XX
Digital cableway bracket kit; *305 mm (12")*	FGS-HCBL-12
Digital cableway bracket kit; *381 mm (15")*	FGS-HCBL-15
Ladder rack center support bracket kit	FGS-HNLR-AB
OMX frame center support bracket kit; *16 mm (.63")*	FGS-HOMX-16MM
Under floor support bracket kit	FGS-HUFB-A

Custom brackets are available, please contact ADC KRONE.

4x12 System Support Kits

For Yellow and Orange System

Existing Ladder Rack Center Support Bracket Kit
(FGS-HETP-F-XX)

Trapeze Bracket Kit
(FGS-HNTP-F-XX)

Center Support Threaded Rod Bracket Kit
(FGS-HTUB-F-XX shown alone and attached to threaded rod)

Top Support Low-Profile Threaded Rod Bracket Kit
(FGS-HNTS-F-XX-LP shown alone and attached to threaded rod)

Top Support Threaded Rod Bracket Kit
(FGS-HNTS-F-XX)

New Threaded Rod Bracket Kit
(FGS-HNTR-F-XX)

Existing Threaded Rod Bracket Kit
(FGS-HETR-F-XX)

Ordering Information

Description	Product Number
4x12 system support kits	
New ladder rack center support bracket kit	FGS-HNLR-F
Existing ladder rack center support bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HETP-F-XX
Trapeze bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HNTP-F-XX
Center support threaded rod bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm, 20 mm)*	FGS-HTUB-F-XX
Top support low-profile threaded rod C-bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HNTS-F-XX-LP
Top support threaded rod C-bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HNTS-F-XX
New threaded rod bracket kit; *(XX = size: 5/8", 14 mm, 16 mm, 18 mm)*	FGS-HNTR-F-XX
Existing threaded rod bracket kit; *(XX = size: 5/8", 14 mm, 16 mm)*	FGS-HETR-F-XX

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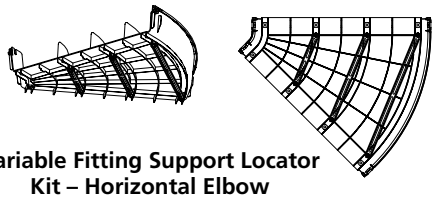
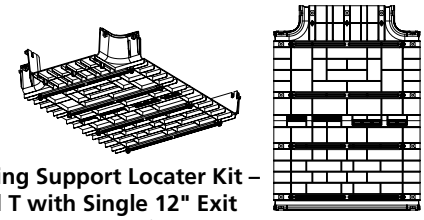
4x24 System Support Kits

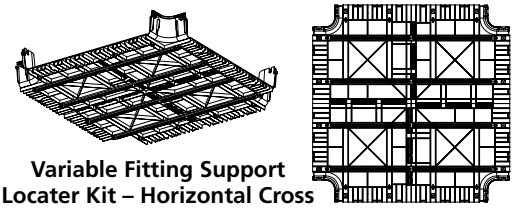
For Yellow and Orange System



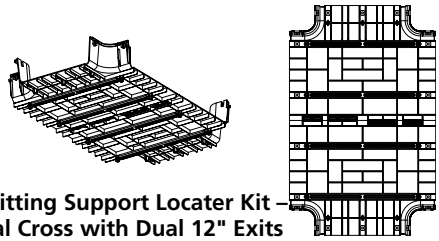
Variable Fitting Support Locator Kit – Horizontal Elbow
(FGS-MH4E-H-VS)



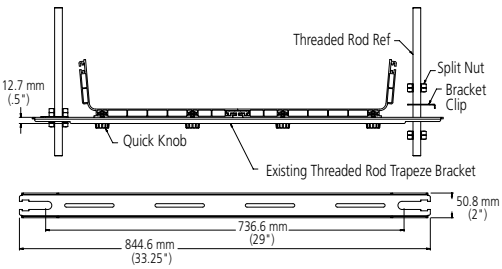
Variable Fitting Support Locater Kit – Horizontal T with Single 12" Exit
(FGS-MHRT-H/F-VS)



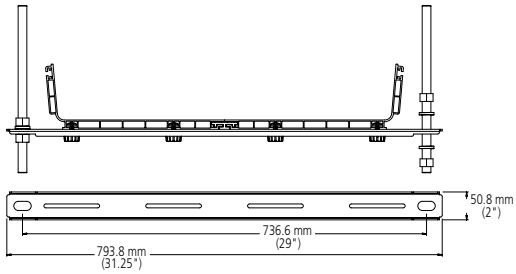
Variable Fitting Support Locater Kit – Horizontal Cross
(FGS-MHXP-H-VS)



Variable Fitting Support Locater Kit – Horizontal Cross with Dual 12" Exits
(FGS-MHXP-F/H-VS)



Existing 5/8" Threaded Rod Trapeze Bracket Kit
(FGS- HETP-H-5/8)

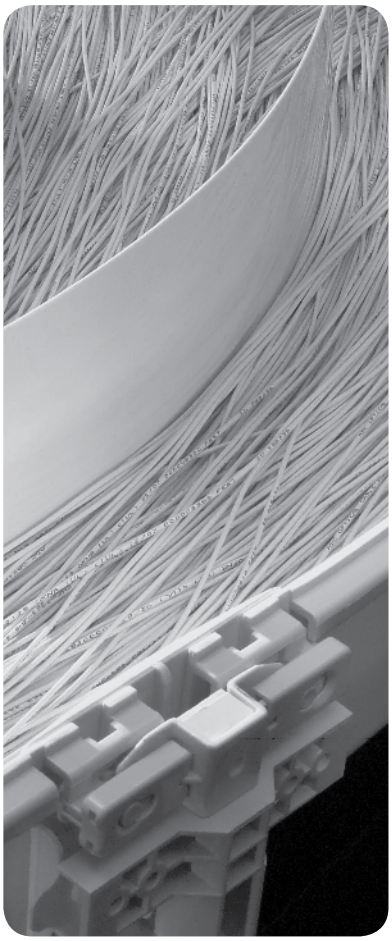


New 5/8" Threaded Rod Trapeze Bracket Kit
(FGS-HNTP-H-5/8)

Ordering Information

Description	Product Number
4x24 System Support Kits	
Variable fitting support locater kit for;	
Horizontal elbow	FGS-MH4E-H-VS
Horizontal T with single 12" exit	FGS-MHRT-H/F-VS
Horizontal cross	FGS-MHXP-H-VS
Horizontal cross with dual 12" exits	FGS-MHXP-F/H-VS
Threaded rod trapeze bracket kit for;	
Existing; 5/8"	FGS-HETP-H-5/8
New; 5/8"	FGS-HNTP-H-5/8

Accessories



System Accessories 72
Support Kit Accessories 74

System Accessories

Ordering Information

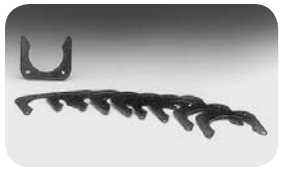
Description	Product Number	
	Yellow System	Orange System
Trough cover clip kit	FGS-KT09	FGS-KT09
Slotted and solid flex tubes		
2" outer diameter slotted flex tube; *(X = length: 5, 10, 15, 20, 25, 50, 75, 100, 125, 150, 200, 250)*	FGS-MIDY-XF	FGSO-MIDY-XF
1" outer diameter slotted flex tube; *(X = length: 5, 10, 15, 20, 25, 50, 75, 100, 125, 150, 200, 250)*	FGS-MLDY-XF	FGSO-MLDY-XF
7/8" outer diameter slotted flex tube; *(X = length: 5, 10, 15, 20, 25, 50, 75, 100, 125, 150, 200, 250)*	FGS-MFTY-XF	FGSO-MFTY-XF
2" outer diameter solid flex tube; *(X = length: 5, 10, 15, 20, 25, 50, 75, 100, 125, 150, 200, 250)*	FGS-MISY-XF	FGSO-MISY-XF
Hinges; *single hinges for 4x4 and 4x6 covers*	FGS-HHGK	FGS-HHGK
Retainer rings; *kit of 10 – used to retain fibres in 2" flex tube*	FGS-HFRR-10	FGS-HFRR-10
Flex tube clamp; *kit of 10 – used to secure 2" flex tube to 2" vertical ducts*	FGS-HHEC-10	FGS-HHEC-10
Storage spools for dark fibre jumpers; *kit of 2*	FGS-MSTOR-A/B/F	FGS-MSTOR-A/B/F
Mitre box with saw		
Used to cut 2x2, 4x4, 4x6, and 4x12 FiberGuide® straight sections to size	FGS-MKIT-ABF	FGS-MKIT-ABF
Used to cut 2x2, 4x4, and 4x6 FiberGuide® straight sections to size	FGS-MKIT	FGS-MKIT
IFC tie down for;		
4x4 system	FGS-HIFC-A	FGS-HIFC-A
4x6 system	FGS-HIFC-B	FGS-HIFC-B
4x12 system	FGS-HIFC-F	FGS-HIFC-F
Quick knobs with T-bolt; *kit of 10*	FGS-KQKB	FGS-KQKB
Reverse junction adapter kit for 4x4, 4x6, and 4x12 systems; *used to connect two parts rotated 180°*	FGS-HRJA-A/B/F	FGS-HRJA-A/B/F
Retrofit fin; *kit of 10*	FGS-MFIN-10	FGS-MFIN-10

System Accessories

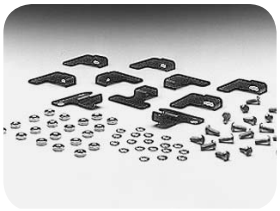
2" Outer Diameter Slotted Flex Tube
(FGS-MIDY)

7/8" Outer Diameter Slotted Flex Tube
(FGS-MFTY)

Single Hinges for 4" and 6" Covers
(FGS-HHGK)

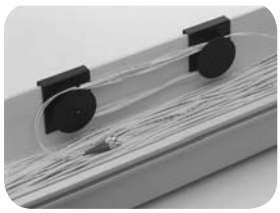


Retainer Rings
(FGS-HFRR-10)

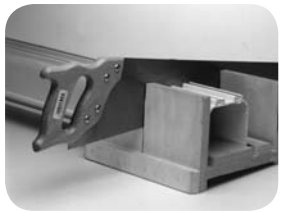


Flex Tube Clamp
(FGS-HHEC-10)

Storage Spools
(FGS-MSTOR-A/B/F)



Shown Installed
(FGS-MSTOR-A/B/F)



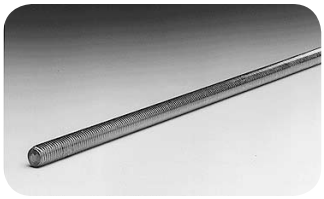
Mitre Box and Saw
(FGS-MKIT-ABF)

Retrofit Fin – Kit of 10
(FGS-MFIN-10)

Quick Knobs - Kit of 10
(FGS-KQKB)

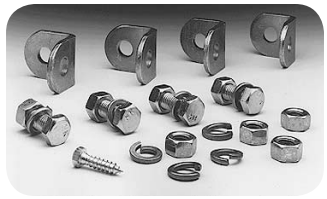
Support Kit Accessories

For Yellow and Orange Systems



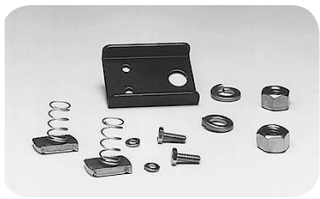
Threaded Rod
(FGS-HTHR)

Auxiliary Framing Kit
(FGS-HFCK)



Adjustable Angle Support Brackets
(FGS-HASB)

Ladder Rack Bracket Kit
FGS-HLDR shown alone and attached to ladder rack

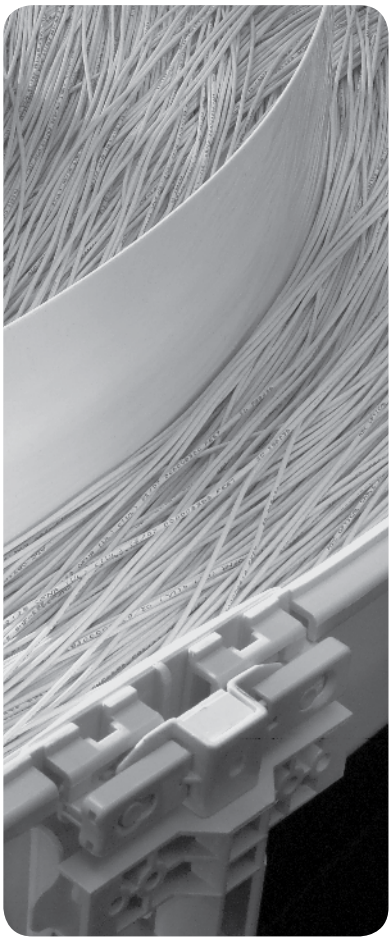


Unistrut Nut Kit
(FGS-HDGR)

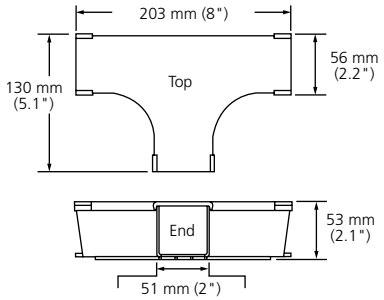
Ordering Information

Description	Product Number
Threaded rod	
5/8" - 11 x 12"	FGS-HTHR-5/8-12
5/8" - 11 x 30"	FGS-HTHR-5/8-30
5/8" - 11 x 72"	FGS-HTHR-5/8-72
1/2" - 13 x 12"	FGS-HTHR-1/2-12
1/2" - 13 x 30"	FGS-HTHR-1/2-30
1/2" - 13 x 72"	FGS-HTHR-1/2-72
Threaded rod; *(XX = size: 12 mm, 14 mm, 16 mm) (NN = length: 30 cm, 75 cm, 180 cm)*	FGS-HTHR-*XX-NN*
Auxiliary framing kit	
2x 9/16" x 3/16" for 5/8" rod	FGS-HFCK-5/8
2x 9/16" x 3/16" for 1/2" rod	FGS-HFCK-1/2
Adjustable angle support brackets with 5/8" threaded rod	
11 x 36" rod	FGS-HASB-5/8-36
11 x 48" rod	FGS-HASB-5/8-48
Adjustable angle support brackets with 1/2" threaded rod	
13 x 36" rod	FGS-HASB-1/2-36
13 x 48" rod	FGS-HASB-1/2-48
Ladder rack bracket kit for radiused ladder racking	FGS-HLDR-A
Ladder rack bracket kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HLDR-*XX*
Unistrut nut kit; *5/8"*	FGS-HDGR
Frame mounting hardware kit; *(XX = size: 1/2", 5/8", 12 mm, 14 mm, 16 mm)*	FGS-HKFM-*XX*

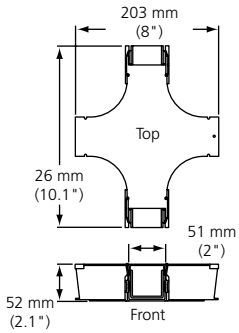
Part Drawings



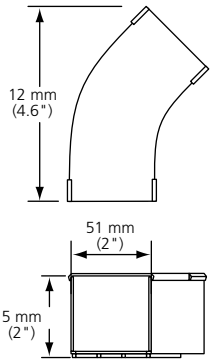
2x2 System Part Drawings 76
2x6 System Part Drawings 78
4x4 System Part Drawings 80
4x6 System Part Drawings 83
4x12 System Part Drawings 85
4x24 System Part Drawings 88
Express Exit™ Part Drawings 90
2x2 System Support Kit Drawings 91
2x6, 4x4 and 4x6 System Support Kit Drawings 92
4x12 System Support Kit Drawings 94
4x24 System Support Kit Drawings 95



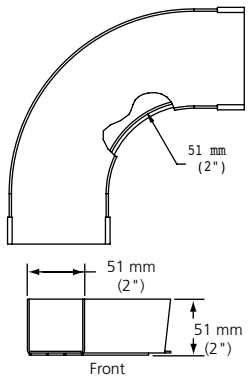
Horizontal T
(FGS-MHTA-C)



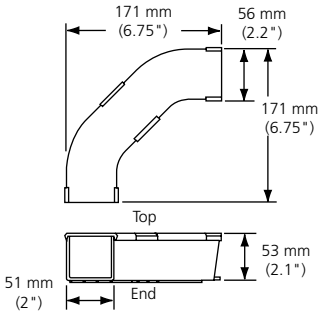
Horizontal Cross
(FGS-MHXP-C)



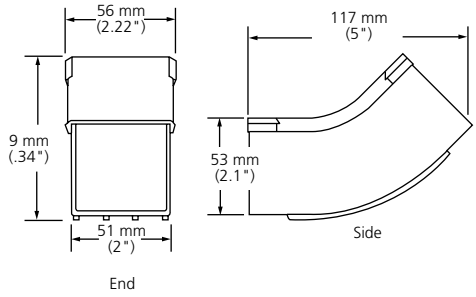
45° Horizontal Elbow
(FGS-MH4A-C)



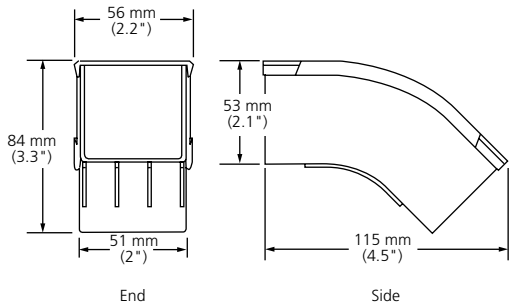
90° Horizontal Elbow
(FGS-MH9A-C)



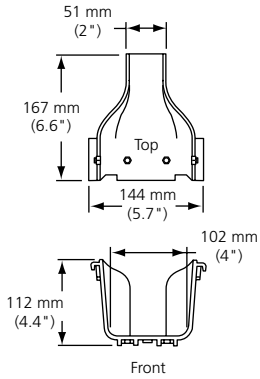
90° Extended Horizontal Elbow
(FGS-MH9A-C-45/2)



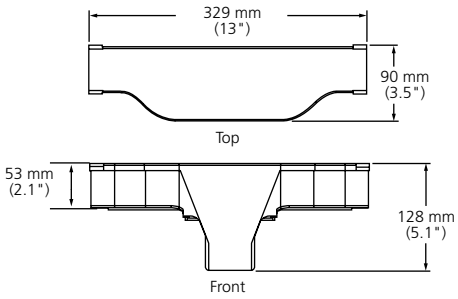
45° Up Elbow
(FGS-MU4A-C)



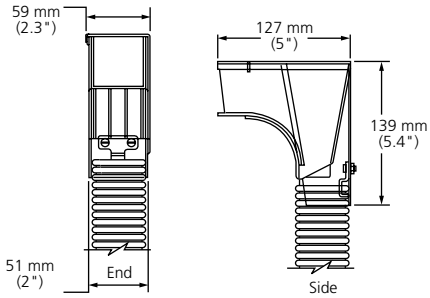
45° Down Elbow
(FGS-MD4A-C)



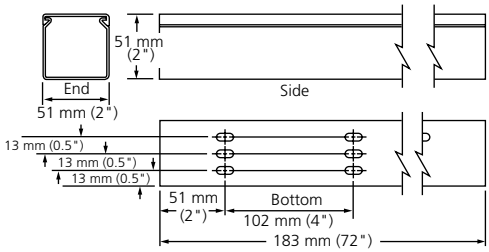
2x2 to 4x4 Straight Adapter
(FGS-MDSA-AC)



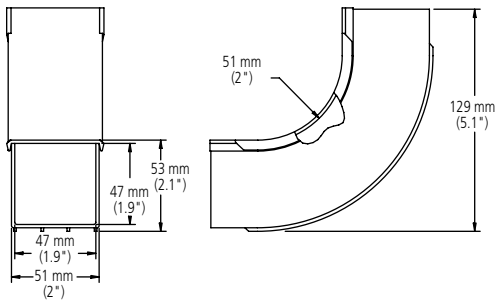
Standard Downspout
(FGS-MSDS-C)



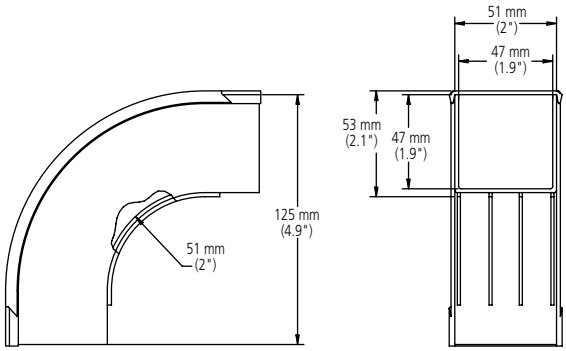
Extended Downspout
(FGS-KDH2-C)



Horizontal Straight Section
(FGS-MSHA-C)

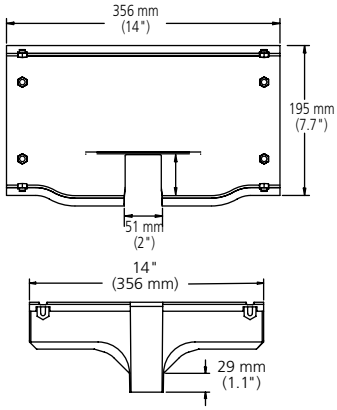


90° Up Elbow
(FGS-MU9A-C)

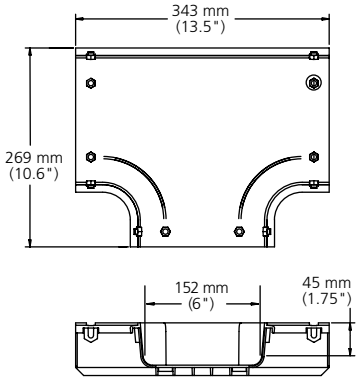


90° Down Elbow
(FGS-MD9A-C)

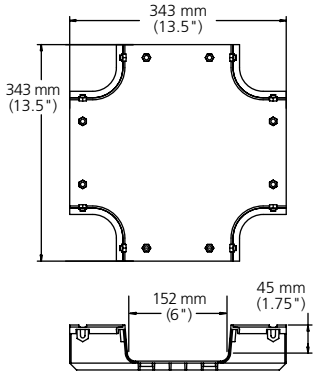
2x6 System
Part Drawings



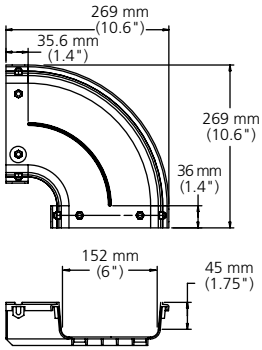
2x6 to 2x2 Downspout
(FGS-MDSP-G)



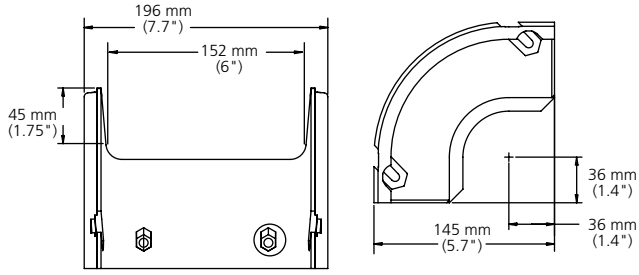
Horizontal T
(FGS-MHRT-G)



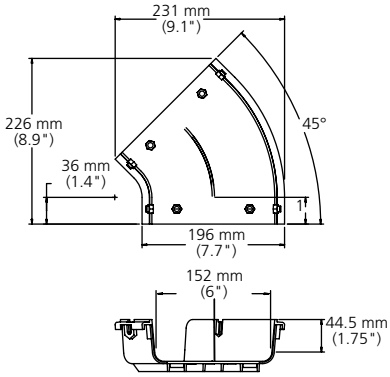
Horizontal Cross
(FGS-MHXP-G)



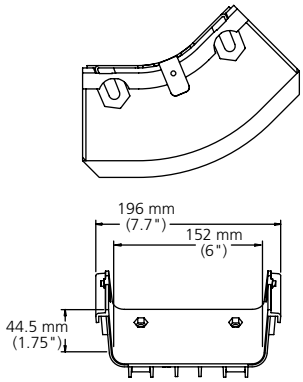
90° Horizontal Elbow
(FGS-MH9E-G)



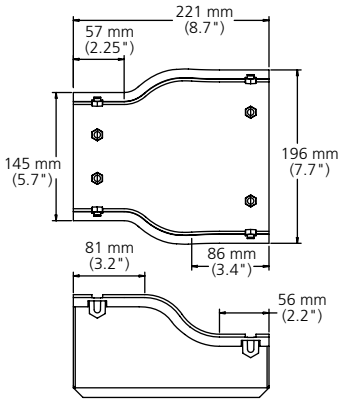
90° Down Elbow
(FGS-MD9E-G)



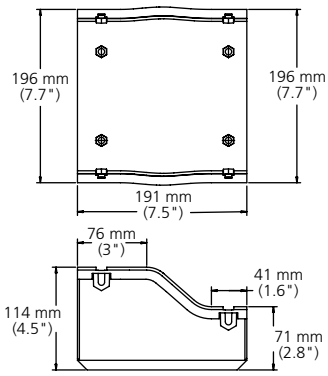
45° Horizontal Elbow
(FGS-MH4E-G)



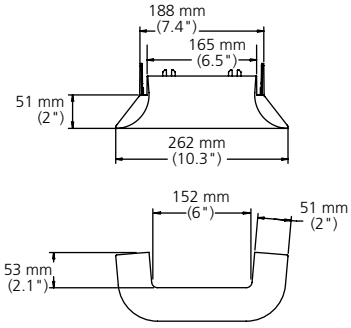
45° Up Elbow
(FGS-MU4E-G)



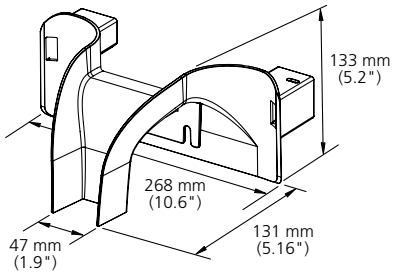
2x6 to 4x4 Adapter
(FGS-MDSA-GA)



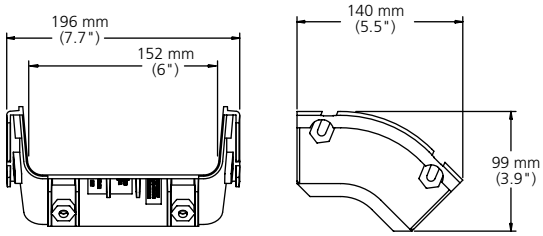
2x6 to 4x6 Adapter
(FGS-MDSA-GB)



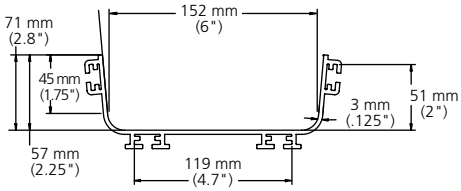
Trumpet Flare
(FGS-MTRM-G)



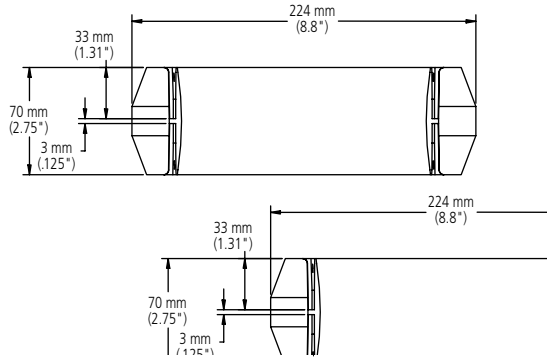
Low-Profile
Express Exit™ Downspout
(FGS-MEXP-LP-G)



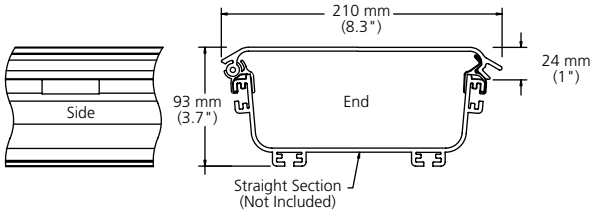
45° Down Elbow
(FGS-MD4E-G)



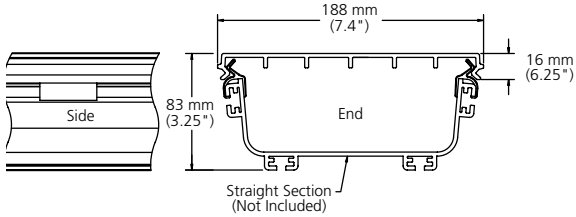
Straight Section
(FGS-MSHS-G)



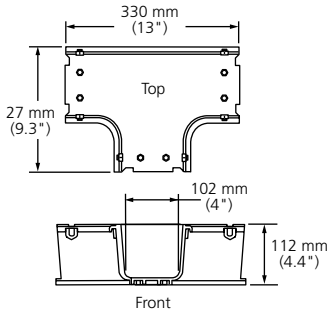
Junction
(FGS-JUNC-G)



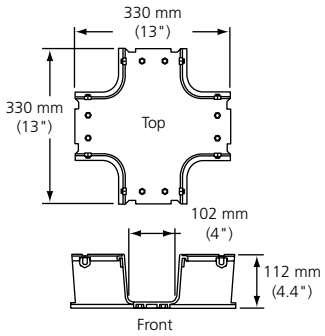
Hinged Covers for Straight Section
(FGS-MSNC-B/G)



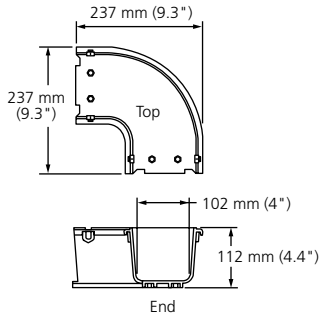
Snap-on Covers for Horizontal Straight Section
(FGS-MSSC-B/G)



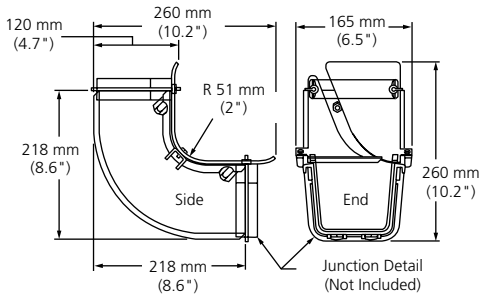
Horizontal T
(FGS-MHRT-A)



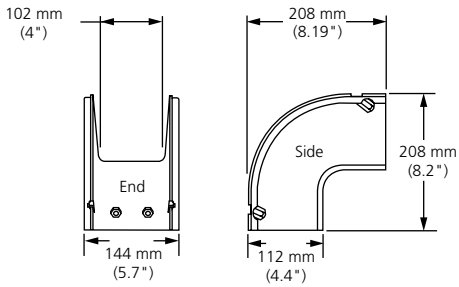
Horizontal Cross
(FGS-MHXP-A)



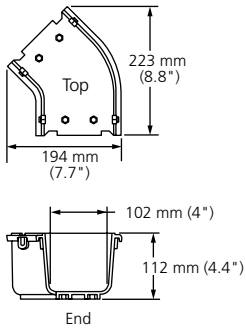
90° Horizontal Elbow
(FGS-MH9E-A)



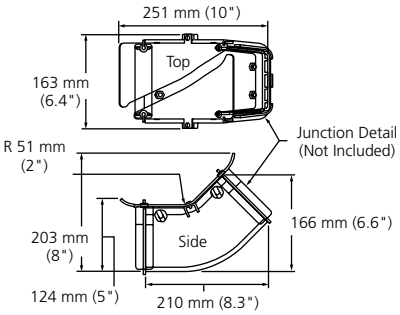
90° Up Elbow
(FGS-MU9E-A)



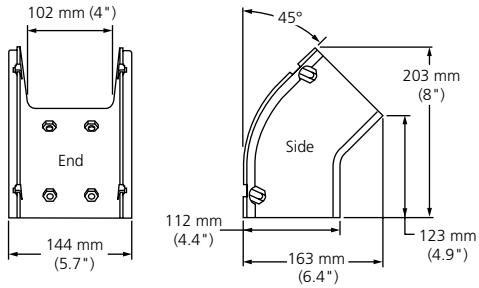
90° Down Elbow
(FGS-MD9E-A)



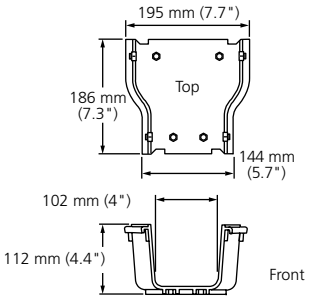
45° Horizontal Elbow
(FGS-MH4E-A)



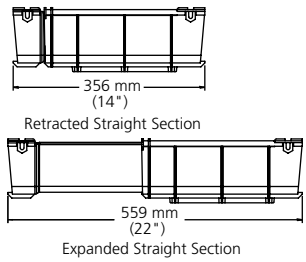
45° Up Elbow
(FGS-MU4E-A)



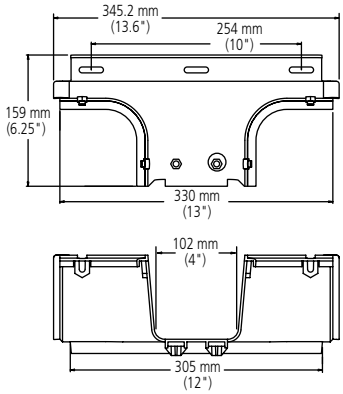
45° Down Elbow
(FGS-MD4E-A)



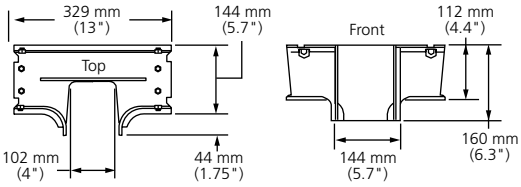
4x4 to 4x6 Straight Adapter
(FGS-MDSA-AB)



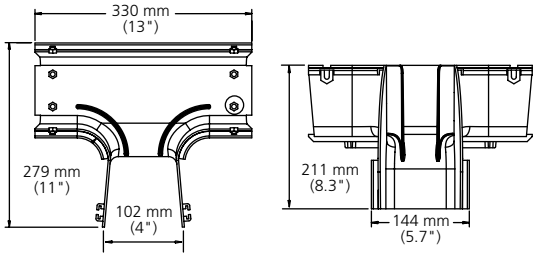
Expandable Straight Section
(FGS-MVAR-A)



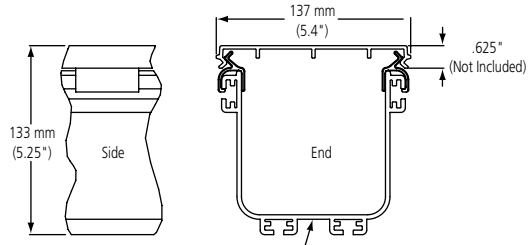
Cut-in T
(FGS-MHIS-A)



Downspout
(FGS-MDSP-A)

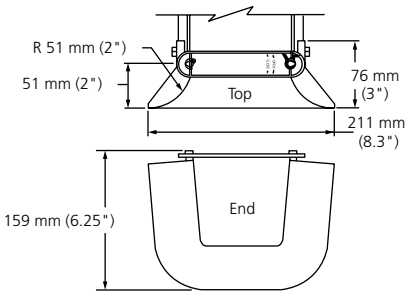


Extended Downspout
(FGS-MDSP-EX-A)

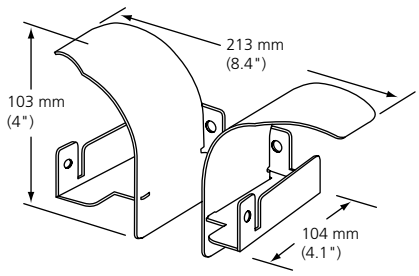


Snap-On Cover for 4" Straight Section
(FGS-MSSC-A)

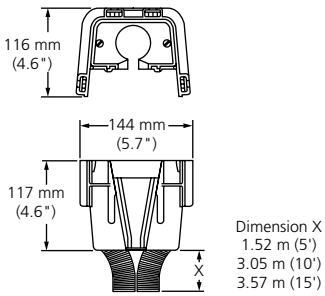
4x4 System
Part Drawings



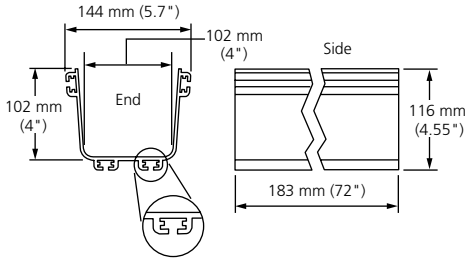
Trumpet Flare
(FGS-MTRM-A)



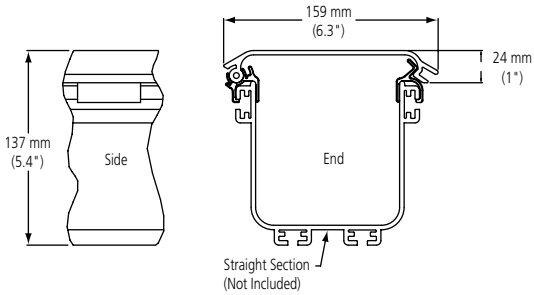
4x4/4x6 Downspout Insert
(FGS-HDSI-AB)



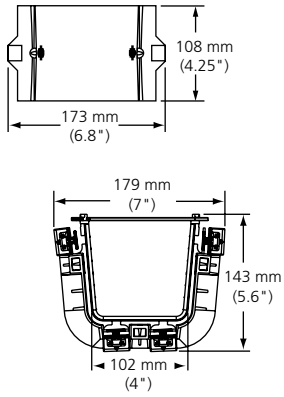
4" Square to 2" Round Adapter with Flex Tube
(FGS-ASRI-X*)



Horizontal Straight Section
(FGS-MSHS-A)



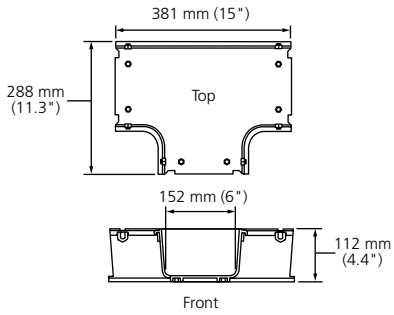
Hinged Cover for 4" Horizontal Straight Section
(FGS-MSNC-A)



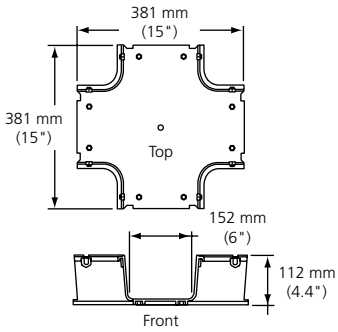
Snap-Fit Junction
(FGS-MFAW-A)

*Replace X with tube length as follows: 5F=5 feet, 10F=10 feet, 15F=15 feet

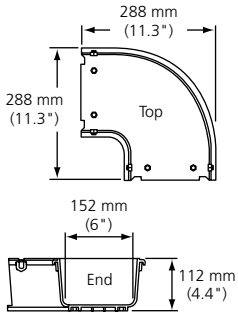
4x6 System
Part Drawings



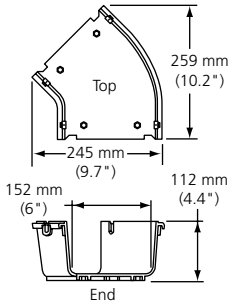
Horizontal T
(FGS-MHRT-B)



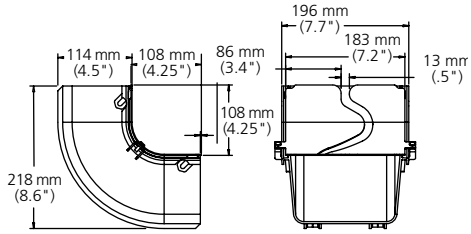
Horizontal Cross
(FGS-MHXP-B)



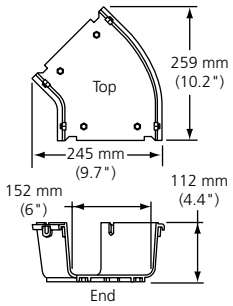
90° Horizontal Elbow
(FGS-MH9E-B)



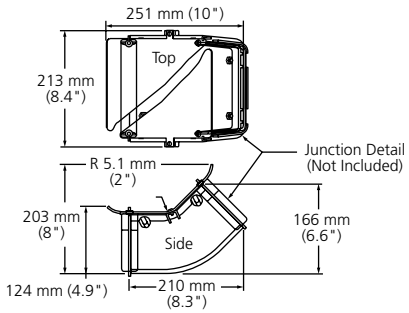
45° Horizontal Elbow
(FGS-MH4E-B)



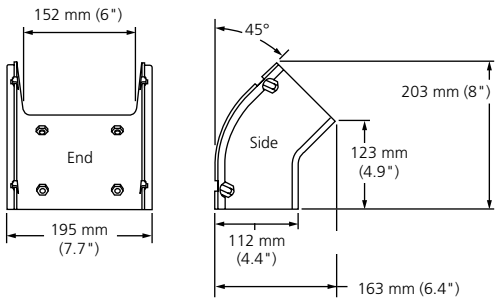
90° Up Elbow
(FGS-MU9E-B)



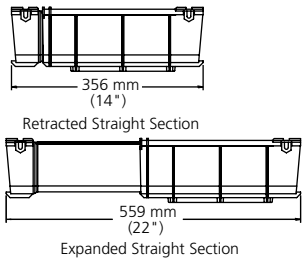
90° Down Elbow
(FGS-MD9E-B)



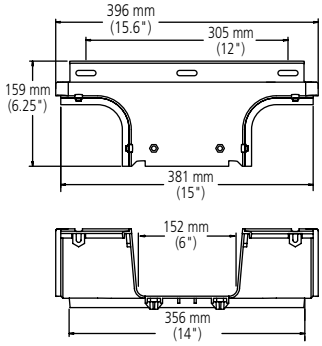
45° Up Elbow
(FGS-MU4E-B)



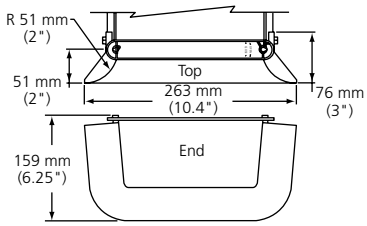
45° Down Elbow
(FGS-MD4E-B)



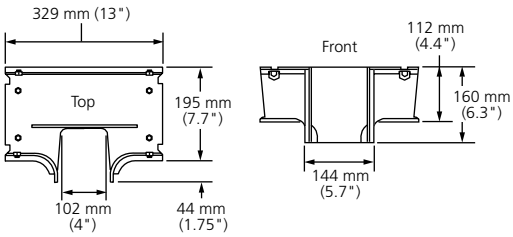
Expandable Straight Section
(FGS-MVAR-B)



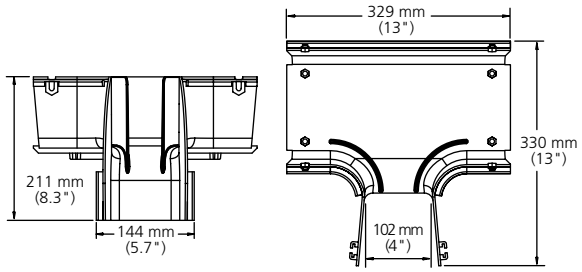
6" Cut-in T
(FGS-MHIS-B)



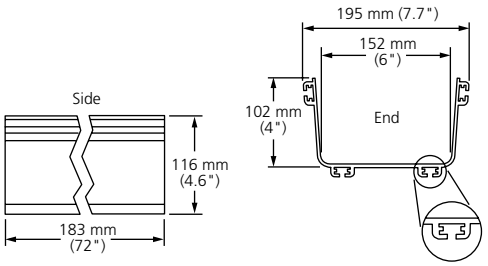
Trumpet Flare
(FGS-MTRM-B)



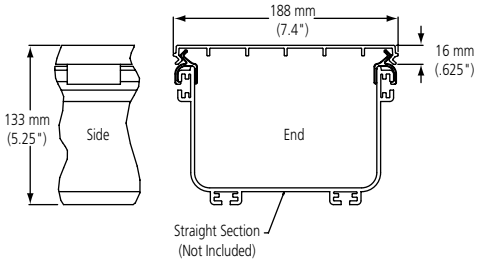
Downspout
(FGS-MDSP-B)



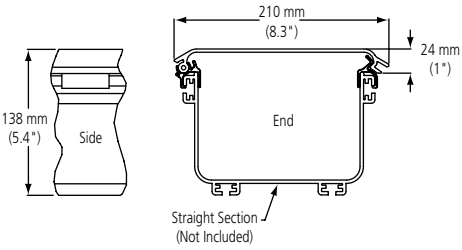
Extended Downspout
(FGS-MDSP-EX-B)



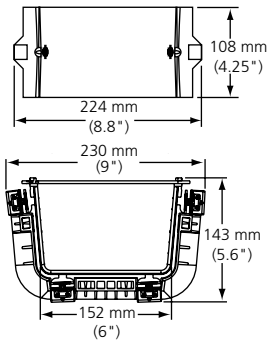
Horizontal Straight Section
(FGS-MSHS-B)



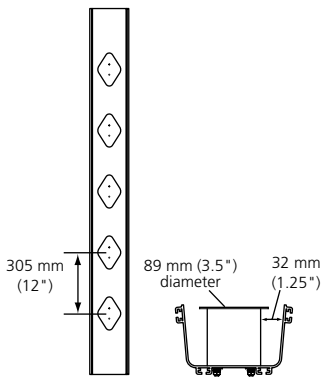
6" Snap-On Cover for Straight Section
(FGS-MSSC-B/G)



Hinged Cover for Straight Section
(FGS-MSNC-B/G)

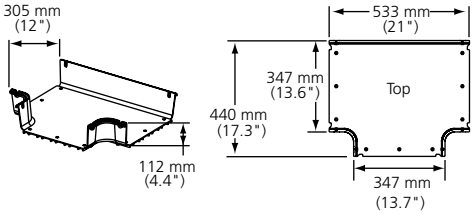


Snap-Fit Junction Assembly
(FGS-MFAW-B)

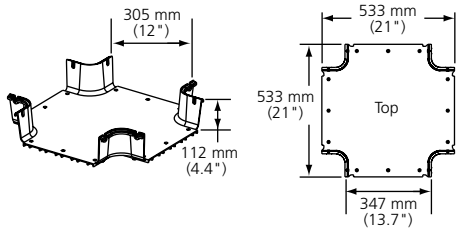


Slack Storage Straight Section
(FGS-MSHS-STOR-B)

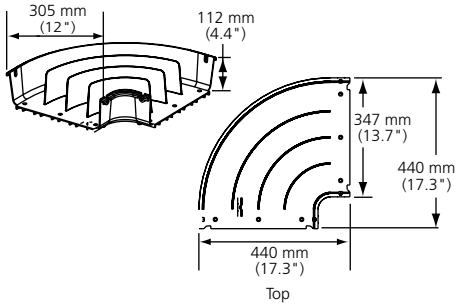
4x12 System
Part Drawings



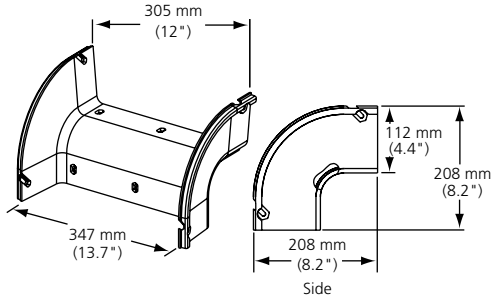
Horizontal T
(FGS-MHRT-F)



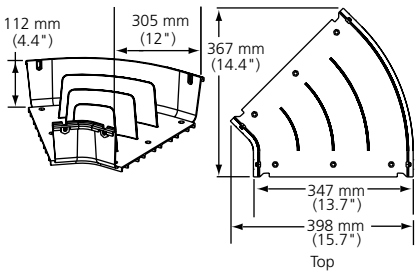
Horizontal Cross
(FGS-MHXP-F)



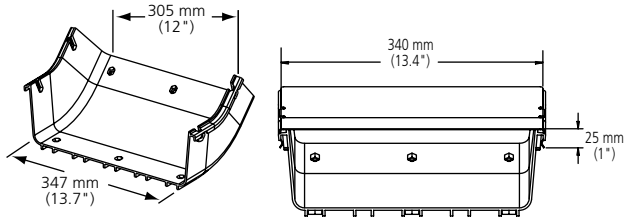
90° Horizontal Elbow
(FGS-MH9E-F)



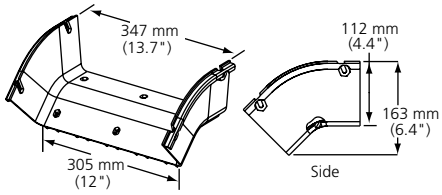
90° Down Elbow
(FGS-MD9E-F)



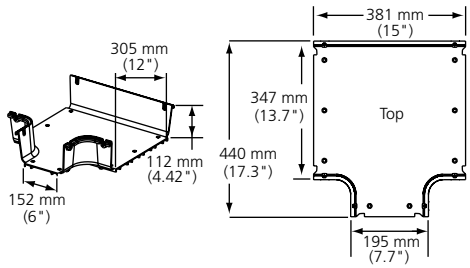
45° Horizontal Elbow
(FGS-MH4E-F)



45° Up Elbow
(FGS-MU4E-F)

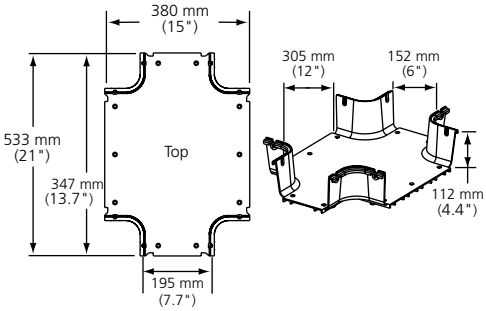


45° Down Elbow
(FGS-MD4E-F)

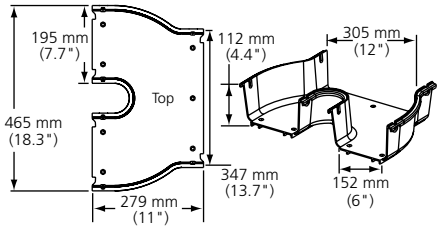


Horizontal T with (one) 6" Exit
(FGS-MHRT-F/B)

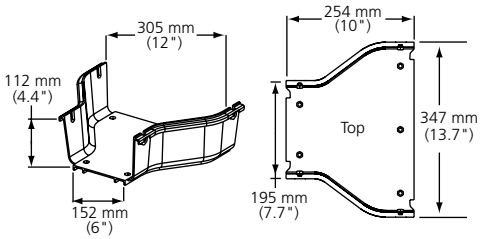
4x12 System
Part Drawings



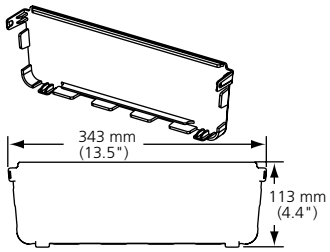
Horizontal Cross with (two) 6" Exits
(FGS-MHXP-F/B)



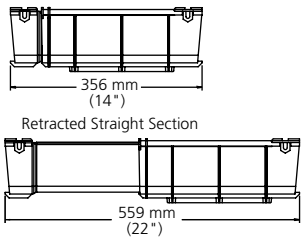
4x12 to 4x6 Dual Adapter
(FGS-MDSA-F2B)



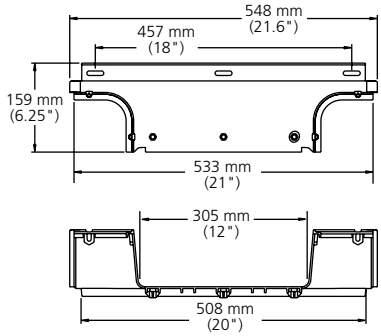
4x12 to 4x6 Adapter
(FGS-MDSA-FB)



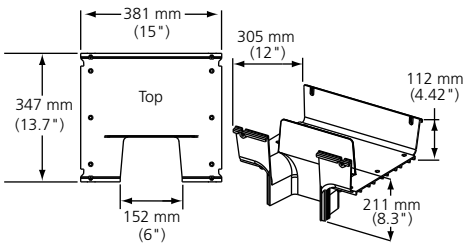
End Cap
(FGS-HMEC-F)



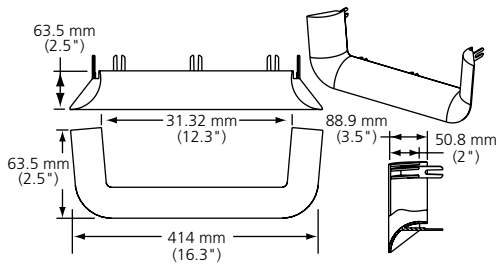
Expandable Straight Section
(FGS-MVAR-F)



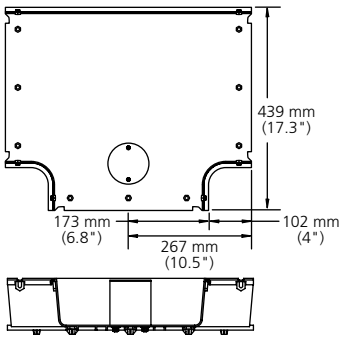
12" Cut-in T
(FGS-MHIS-F)



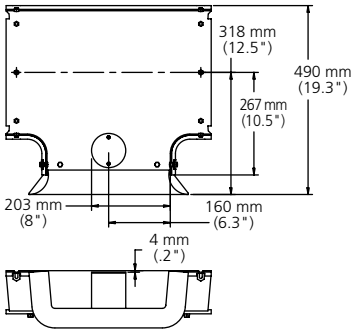
Downspout
(FGS-MDSP-F)



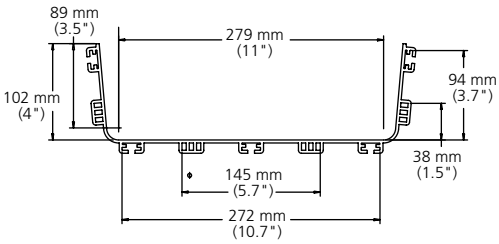
Trumpet Flare
(FGS-MTRM-F)



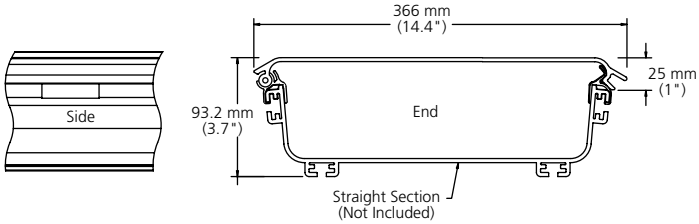
Island T with Recessed Dividing Spool
(FGS-ISLAND3-F)



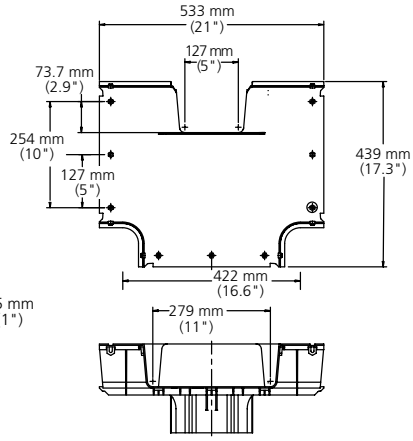
Island T
(FGS-ISLAND-F)



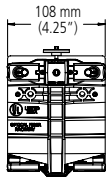
Straight Section
(FGS-MSHS-F)

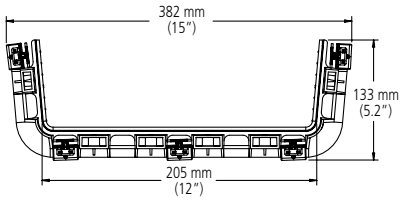


Hinged Cover for Horizontal Straight Section
(FGS-MSNC-F)

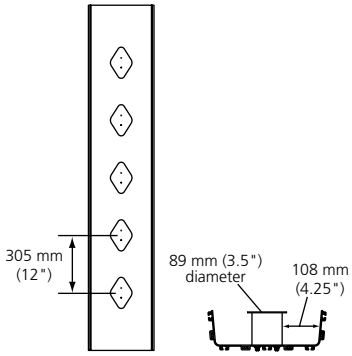


Downspout with Rear T
(FGS-MDRT-F)



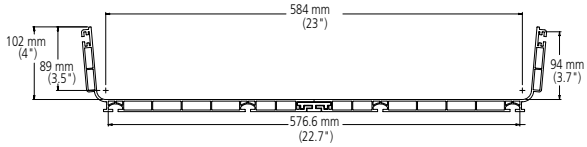


Snap-Fit Junction
(FGS-MFAW-F)

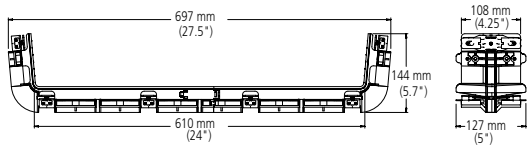


Slack Storage Straight Section
(FGS-MSHS-STOR-F)

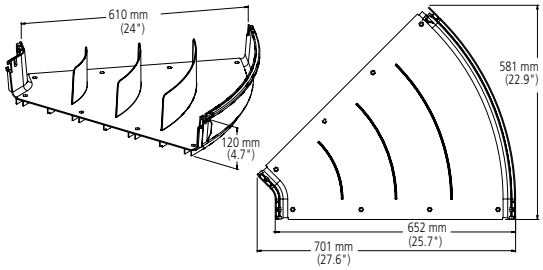
4x24 System
Part Drawings



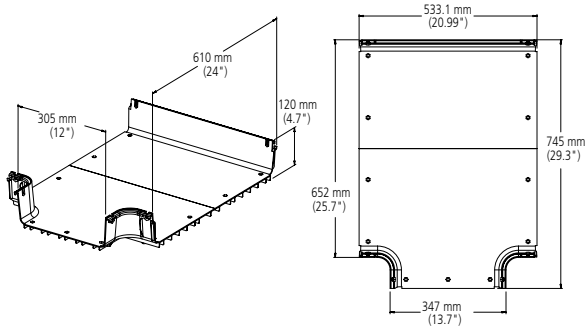
Straight Section
(FGS-MSHS-H)



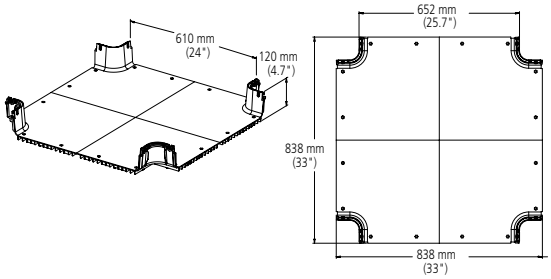
Snap-Fit Junction
(FGS-MFAW-H)



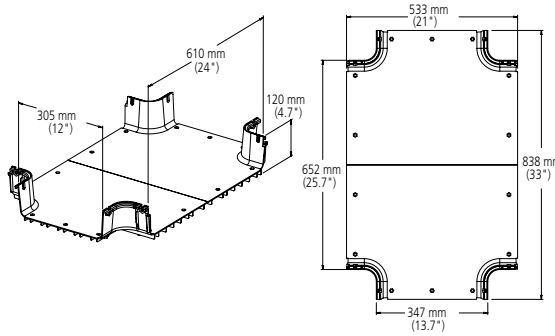
45° Horizontal Elbow
(FGS-MH4E-H)



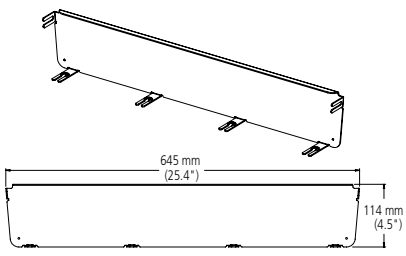
Horizontal T with Single 12" Exit
(FGS-MH4E-H)



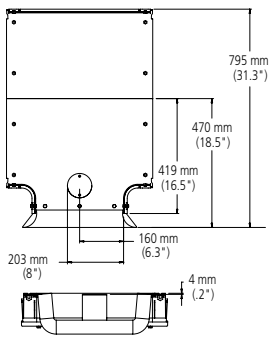
Horizontal Cross
(FGS-MHXP-H)



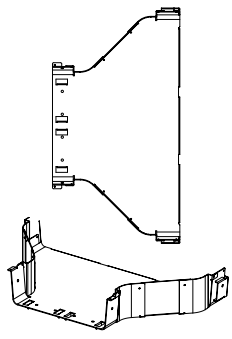
Horizontal Cross with Dual 12" Exits
(FGS-MHXP-F/H)



End Cap
(FGS-HMEC-H)

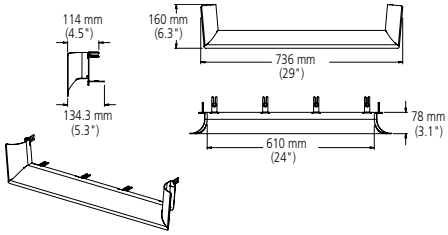


Island T with Single 12" Exit
(FGS-ISLAND-H/F)

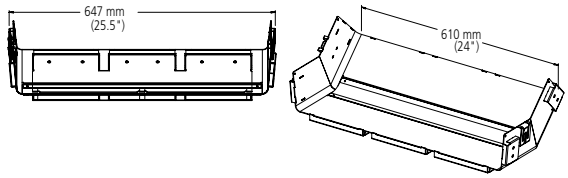


4x24 to 4x12 Adapter
(FGS-MDSA-HF)

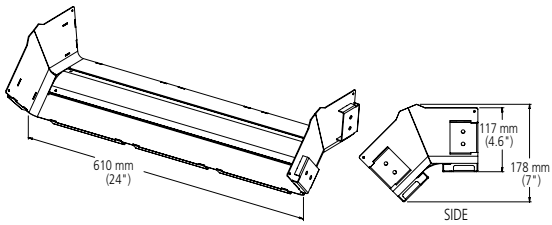
4x24 System
Part Drawings



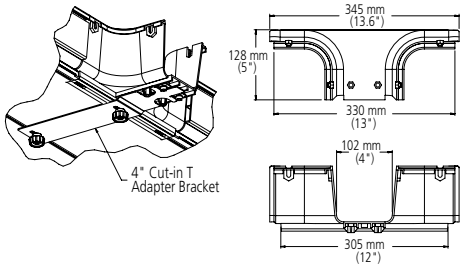
Trumpet Flare
(FGS-MTRM-H)



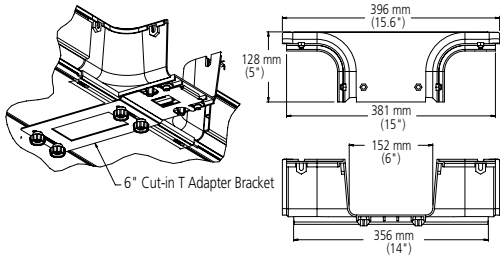
45° Up Elbow
(FGS-MU4E-H)



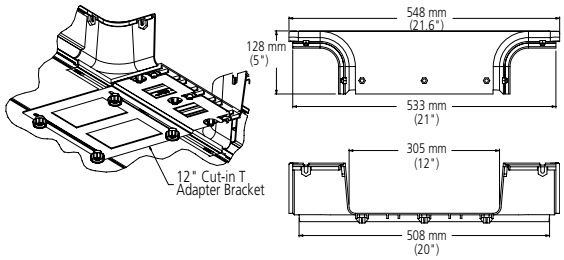
45° Down Elbow
(FGS-MD4E-H)



4" Cut-in T
designed exclusively for the 4x24 System
(FGS-MHIS-A/H)

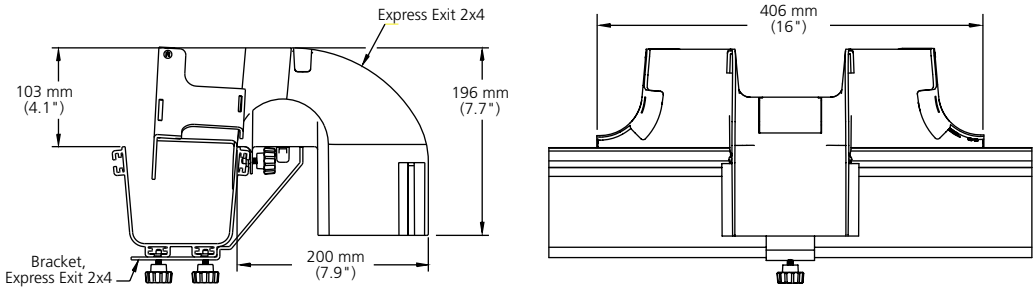


6" Cut-in T
designed exclusively for the 4x24 System
(FGS-MHIS-B/H)

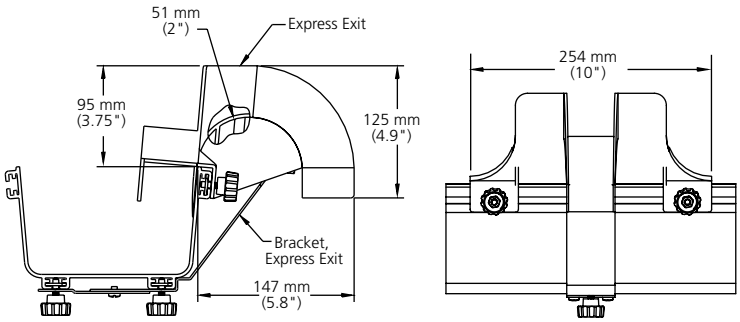


12" Cut-in T
designed exclusively for the 4x24 System
(FGS-MHIS-F/H)

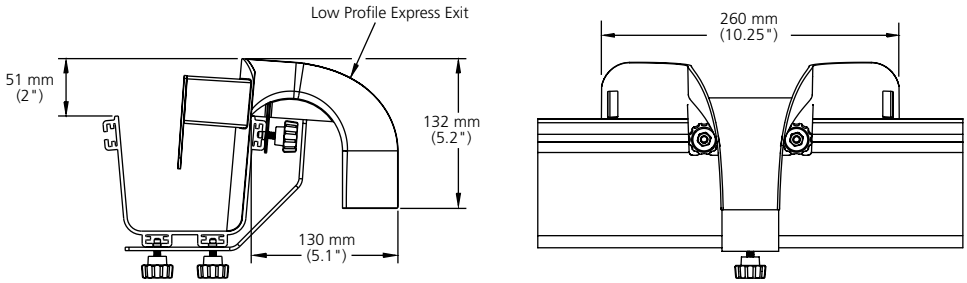
Express Exit™
Part Drawings



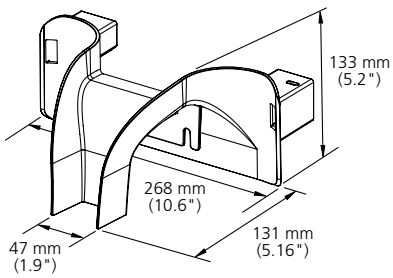
4-Inch Express Exit™
(FGS-MEXP-E-A/B/F shown attached to 4x4 straight section)



2-Inch Express Exit™
(FGS-MEXP-A/B/F; fits 4x4, 4x6 and 4x12 systems; shown attached to 4x6 straight section)

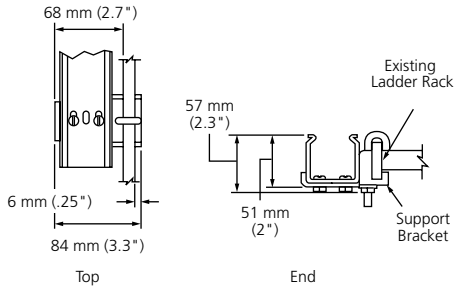


Low-Profile Express Exit™
(FGS-MEXP-LP-A/B/F; fits 4x4, 4x6 and 4x12 systems; shown attached to 4x4 straight section)

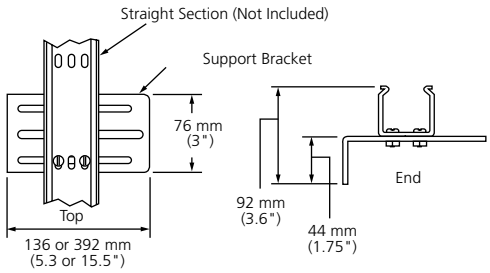


Low-Profile Express Exit™ Designed Exclusively for 2x6 System
(FGS-MEXP-LP-G shown attached to 2x6 straight section)

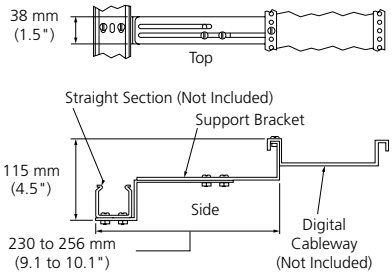
2x2 System
Support Kit Drawings



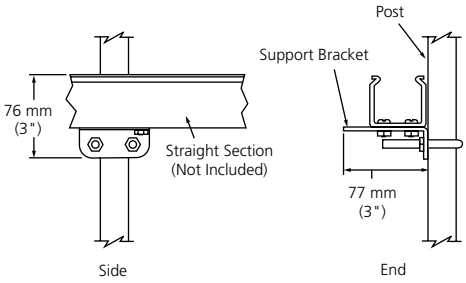
Ladder Rack Support Kit
(FGS-HLR2-C shown alone and attached to ladder rack)



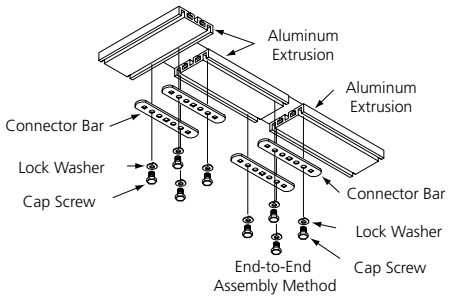
Bay Top Support Short L Bracket Kit
(FGS-BTBS-C, FGS-BTBL-C)



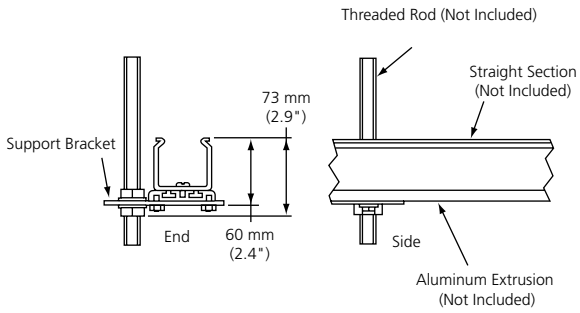
Digital Cableway Support Kit
(FGS-HDCB-C)



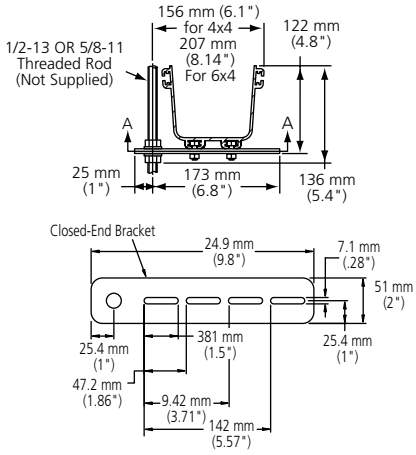
Under Floor Support Kit
(FGS-HUFB-C shown attached to .62"x 2" round pipe)



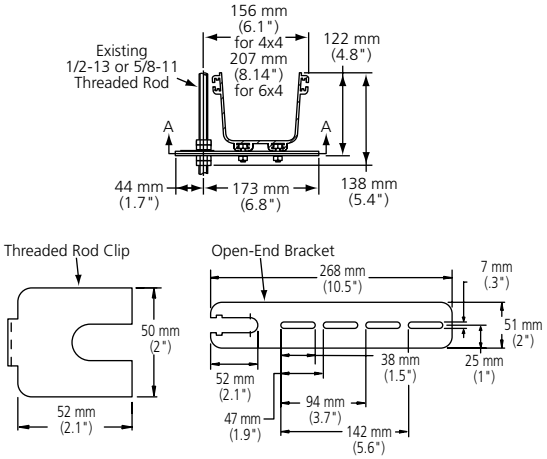
Aluminum Track Support Kit
(FGS-HASK-C)



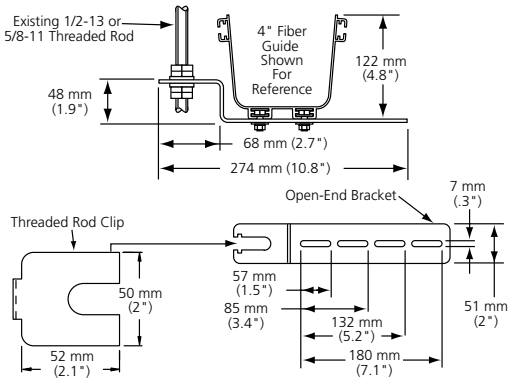
New Threaded Rod Bracket Kit
(FGS-HTR2 shown attached to aluminum track support)



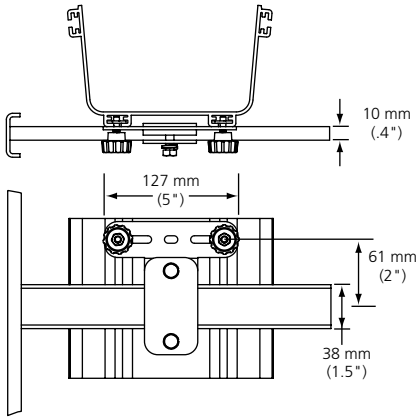
New Threaded Rod Bracket Kit
(FGS-HNTR-XX shown alone and attached to threaded rod)



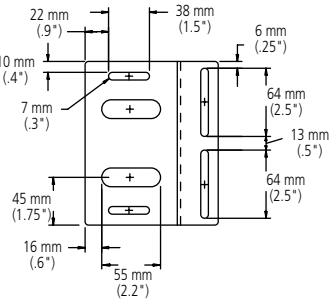
Existing Threaded Rod Bracket Kit
(FGS-HETR-XX shown alone and attached to threaded rod)



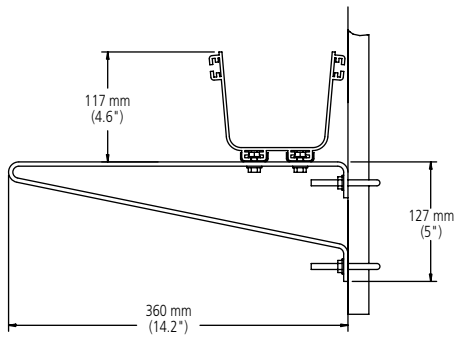
Modified Existing Threaded Rod Bracket Kit
(FGS-HETR-XX-A shown alone and attached to threaded rod)



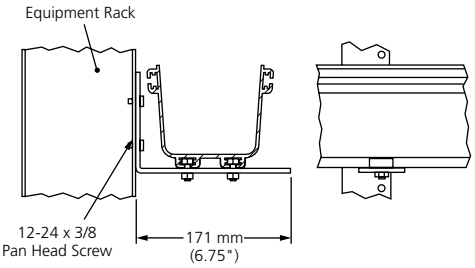
Ladder Rack Center Support Bracket Kit
(FGS-HNLR-AB)



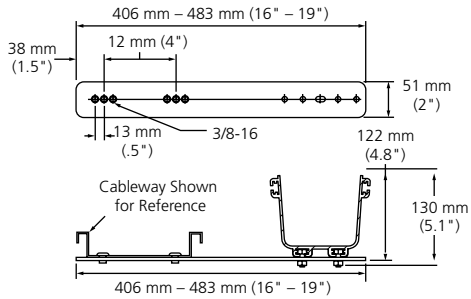
OMX Frame Center Support Bracket Kit
(FGS-HOMX-16MM)



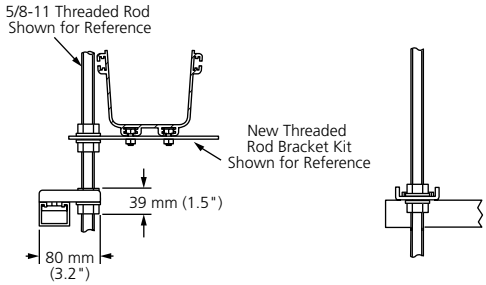
Under Floor Support Bracket Kit
(FGS-HUFB-A)



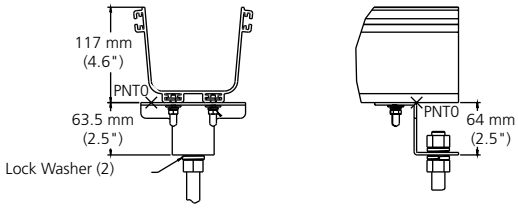
Support Bracket
(FGS-HLBK shown alone and attached to 4" FiberGuide®)



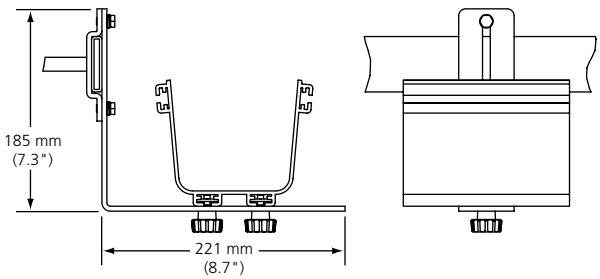
Digital Cableway Bracket Kit
(FGS-HCBL shown alone and attached to 4" FiberGuide®)



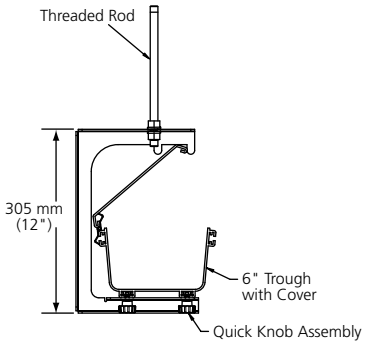
Unistrut Nut Kit
(FGS-HDGR)



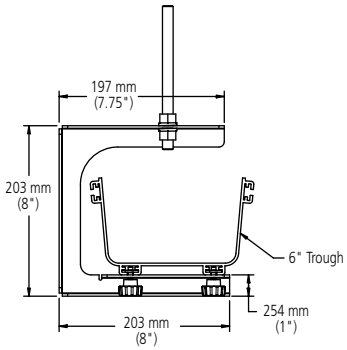
Center Support Bracket
(FGS-HTUB)



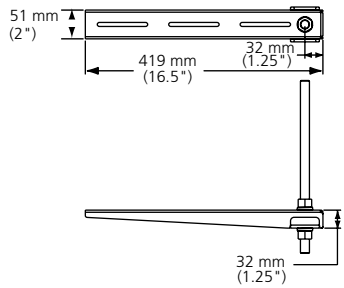
Ladder Rack Cantilever Support Bracket Kit
(FGS-HDLB-4)



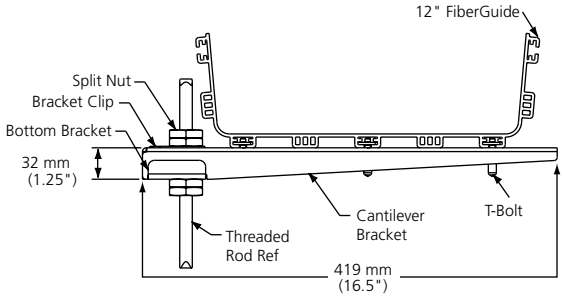
Top Support C-Bracket
(FGS-HNTS)



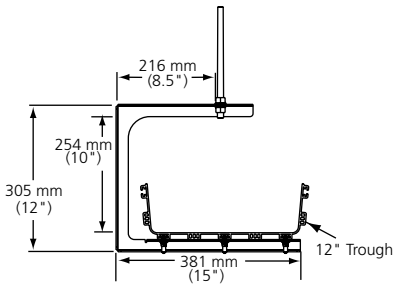
Top Support Low-Profile C-Bracket
(FGS-HNTS-LP)



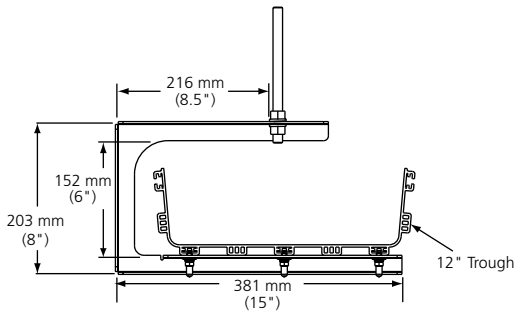
New Threaded Rod Bracket Kit
(FGS-HNTR-F-XX shown alone and attached to threaded rod)



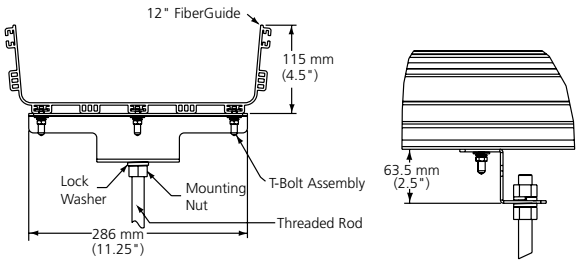
Existing Threaded Rod Bracket Kit
(FGS-HETR-F-XX)



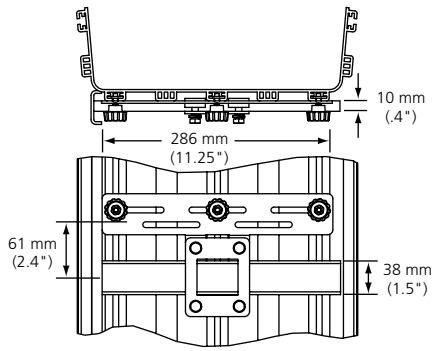
Top Support Threaded Rod C-Bracket Kit
(FGS-HNTS-F-XX shown attached to 4x12 straight section)



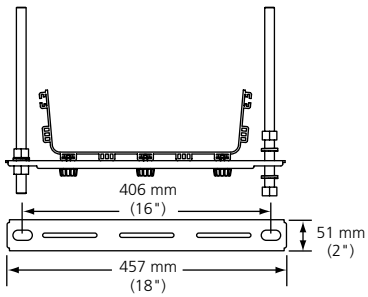
Top Support Low Profile Threaded Rod C-Bracket Kit
(FGS-HNTS-F-XX-LP shown attached to 4x12 straight section)



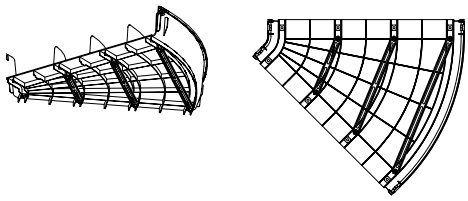
Center Support Threaded Rod Bracket Kit
(FGS-HTUB-F-XX shown attached to 4x12 straight section)



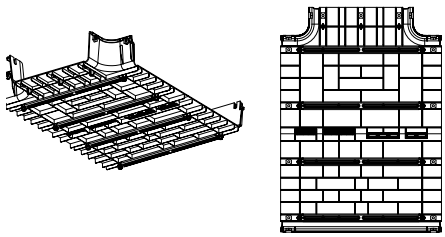
Ladder Rack Center Support Bracket
(FGS-HNLR-F)



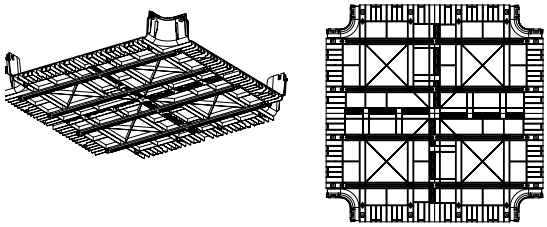
Trapeze Bracket Kit
(FGS-HNTP-F)



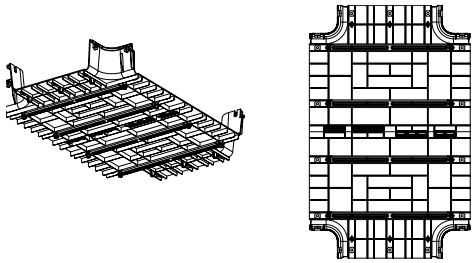
Variable Fitting Support Locater Kit – Horizontal Elbow
(FGS-MH4E-H-VS)



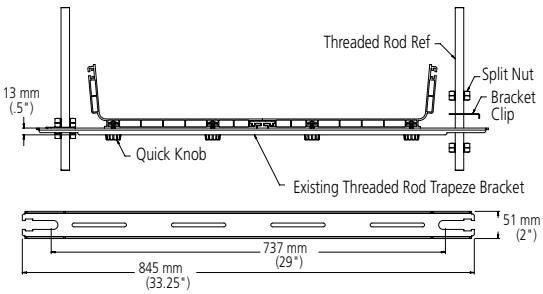
Variable Fitting Support Locater Kit – Horizontal T with Single 12" Exit
(FGS-MHRT-H/F-VS)



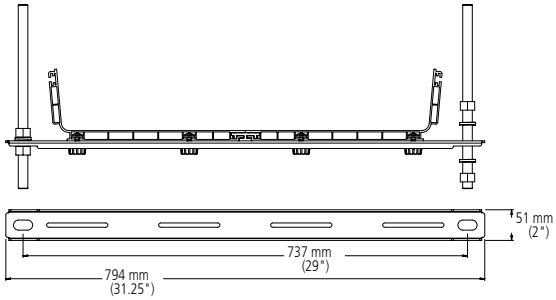
Variable Fitting Support Locater Kit – Horizontal Cross
(FGS-MHXP-H-VS)



Variable Fitting Support Locater Kit – Horizontal Cross with Dual 12" Exits
(FGS-MHXP-F/H-VS)

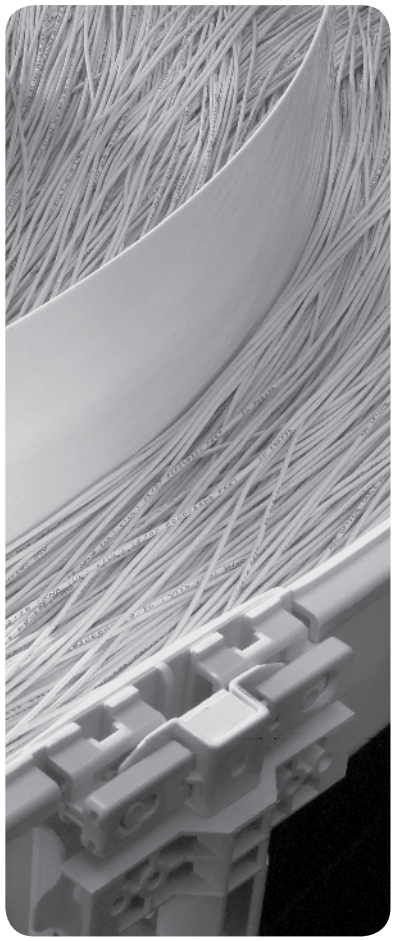


Existing 5/8" Threaded Rod Trapeze Bracket Kit
(FGS- HETP-H-5/8)



New 5/8" Threaded Rod Trapeze Bracket Kit
(FGS- HNTP-H-5/8)

Plenum FiberGuide® System



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4x12 System 108
Accessories 110

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.

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™.

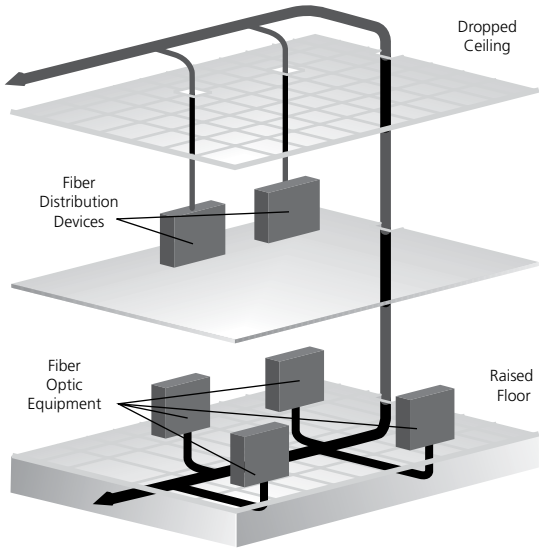


Figure 1

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

Figure 2

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.

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.

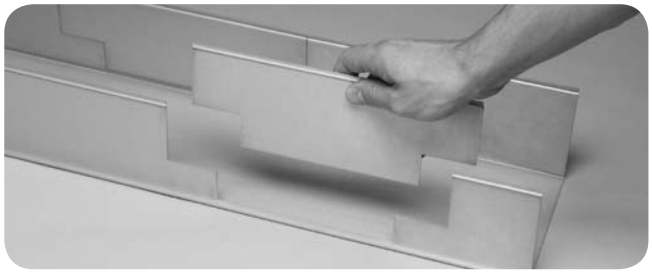
Fittings: Elbows, tees, crosses, trumpet flares and conversions. The fittings are used for changing direction, converting from one size system to another, adding branch segments and routing the fibres in and out of the system. Like the straight sections, snap-on covers are also available for the fittings.

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

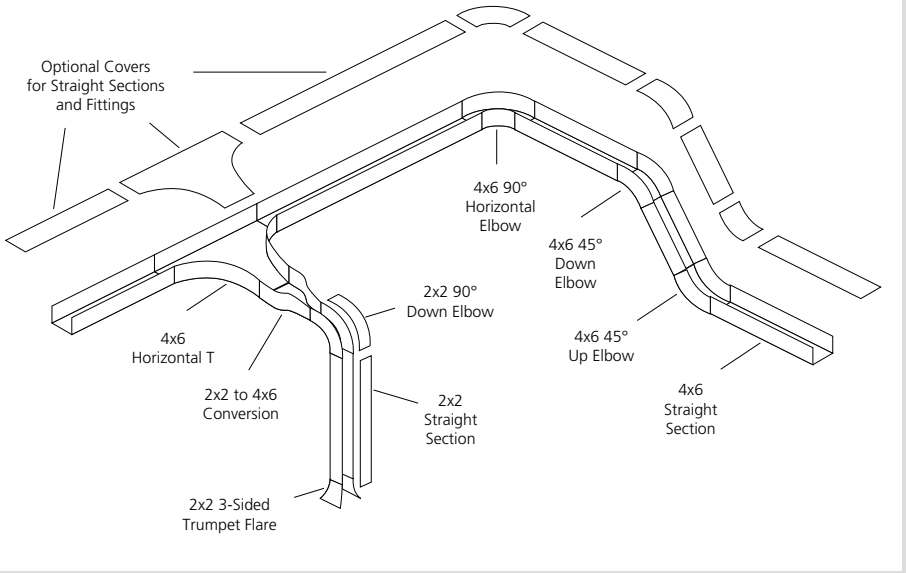
4x6 Horizontal Straight Section

4x12 Horizontal Straight Section

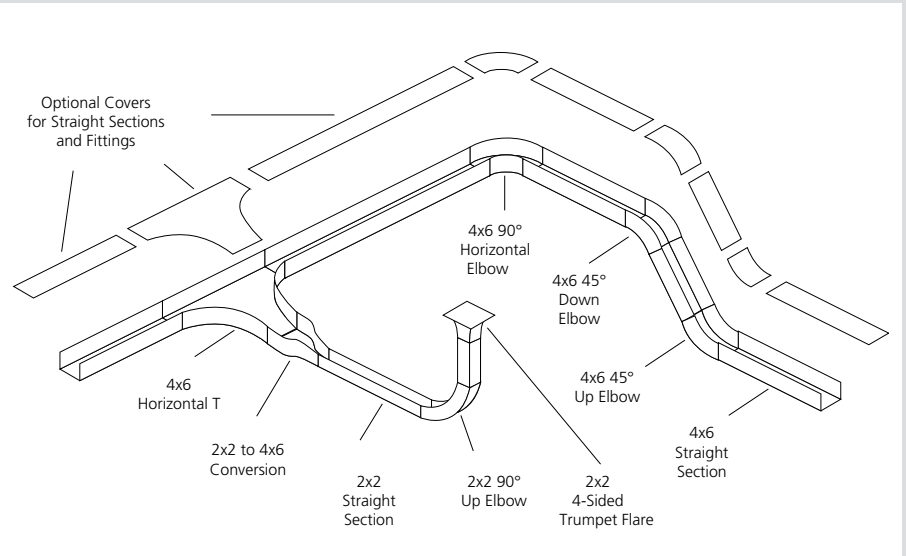
Plenum FiberGuide® System
Typical Installations

In addition to providing physical separation and protection, the plenum FiberGuide® system also provides smooth edges and 2-inch minimum bend radius protection.

The Plenum FiberGuide® system can be assembled and installed using common hand tools. Push together assembly simplifies installation in confined areas and also permits system expansion when additional capacity is required. A variety of fittings allow adjustments in routing to avoid obstructions. The various sizes provide flexibility when considering the capacity required versus the space available.



Overhead Installation



Under Floor Installation

Plenum FiberGuide® System

Recommended 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/Maximum Density

1.7 mm Patch Cords (per in²)	2.0 mm Patch Cords (per in²)	3.0 mm Patch Cords (per in²)
120/142	90/102	40/44

Trough Pileup Recommended/Maximum Density

	2-Inch	3-Inch	4-Inch
4x12 System			
1.7 mm	2880/3408	4320/5112	5760/6862
2.0 mm	2160/2448	3240/3672	4320/4896
3.0 mm	960/1056	1440/1584	1920/2112
4x6 System			
1.7 mm	1440/1704	– /2556	– /3408
2.0 mm	1080/1224	1620/1836	2160/2448
3.0 mm	480/528	720/792	960/1056
2x2 System			
1.7 mm	480/568	–	–
2.0 mm	360/408	–	–
3.0 mm	160/176	–	–

Recommended density determined using GR-449-CORE Bellcore Formula
Maximum density determined using Lab Manual Set-ups
Pile-up beyond 2 inches is not recommended

Plenum FiberGuide® System

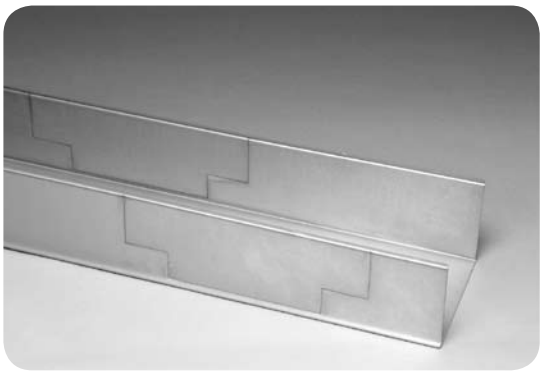
Plenum Express Exit™ System

ADC KRONE introduces its new plenum FiberGuide® Express Exit™ system, which accommodates a wide range of raceway environments and applications, ensuring greater speed of deployment. Knockout areas are placed every 24" on straight sections. By simply punching out one of these areas, the Express Exit™ can be secured directly to the sidewall — allowing drops to be inserted quickly and easily. No cutting is required.

Positioning a drop with the plenum Express Exit™ family greatly simplifies installation, protecting the integrity of fibres already present in the raceway, and increases the flexibility of the entire plenum raceway system. All plenum Express Exits™ guarantee two-inch minimum bend radius protection.

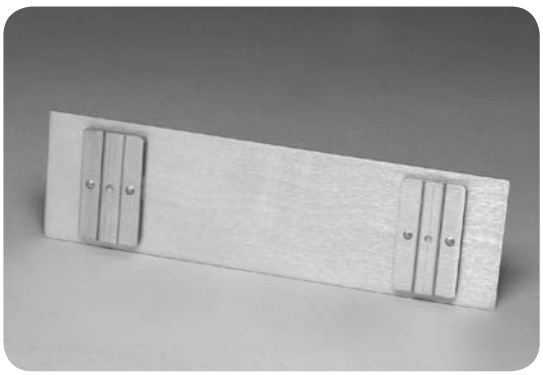
Ordering Information

Description	Product Number
6-inch plenum Express Exit™ straight section with Express Exit™ cutouts placed every 24"	PFGF-PSHS-KT
Plenum Express Exit™ 2" square; For rigid drops — 90° up elbow and trumpet flare are NOT included. See page 103 for more information on these accessories.	PFGF-PSEE-B/C
12-inch plenum Express Exit™ straight section	PFGF-PSHS-KT-F
Plenum blank cover	PFGF-PSEE-BLK



6" Plenum Express Exit™ Straight Section
(PFGF-PSHS-KT)

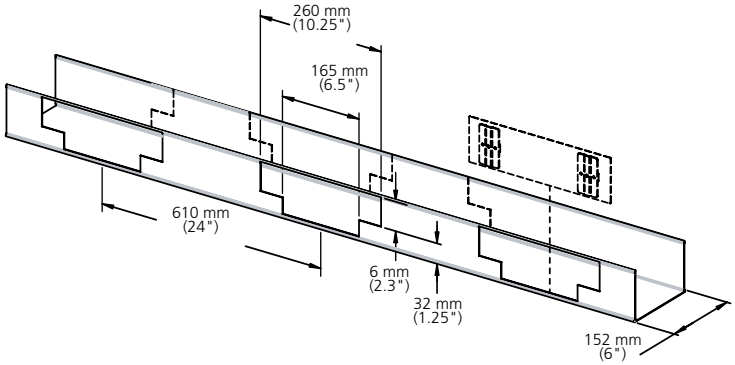
Plenum Express Exit™ 2" Square
(PFGF-PSEE-B/C)



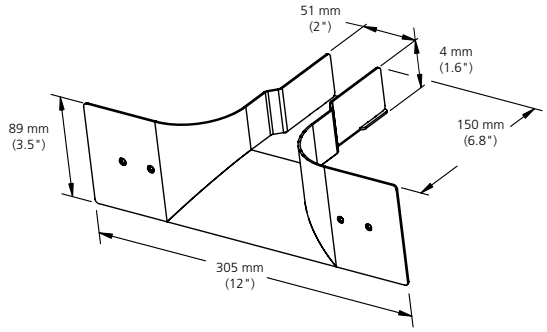
Plenum Blank Cover
(PFGF-PSEE-BLK)

Plenum FiberGuide® System

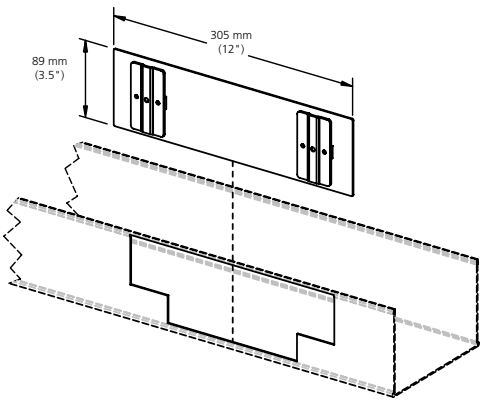
Express Exit™ 4x6 System – 4" H x 6" W



6-Inch Plenum Express Exit™ Straight Section
(PFGF-PSHS-KT)



Plenum Express Exit™ — 2" Square
(PFGF-PSEE-B/C)



Plenum Blank Cover
(PFGF-PSEE-BLK)

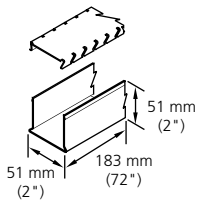
Plenum FiberGuide® System

2x2 System – 2" H x 2" W

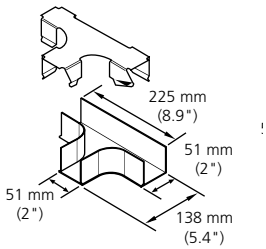
The 2x2 plenum FiberGuide® system interfaces with ADC KRONE's standard 2x2 FiberGuide® system and requires no special conversion piece.

Ordering Information

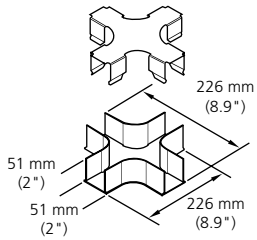
Description	Number of Junctions	Product Number	
		Fitting	Snap-on Cover
2x2 straight section			
Straight section; *6' long*	–	PFGF-PSHS-C	PFGC-PSHS-C
2x2 fittings			
Horizontal T	3	PFGF-PHRT-C	PFGC-PHRT-C
Horizontal cross	4	PFGF-PHXP-C	PFGC-PHXP-C
90° horizontal elbow	2	PFGF-PH9E-C	PFGC-PH9E-C
45° horizontal elbow	2	PFGF-PH4E-C	PFGC-PH4E-C
90° up elbow	2	PFGF-PUPE-C	PFGC-PUPE-C
90° down elbow	2	PFGF-PDNE-C	PFGC-PDNE-C
45° up elbow	2	PFGF-PU4E-C	PFGC-PU4E-C
45° down elbow	2	PFGF-PD4E-C	PFGC-PD4E-C
2x2 trumpet flares			
Trumpet flare; *3 sided*	–	PFGF-PTRM-C	–
Trumpet flare; *4 sided*	–	PFGF-PFPT-C	–
2x2 conversions			
2x2 plenum to 4x6 conversion	(1) 2x2 (1) 4x6	PFGF-PDSA-C/B	PFGC-PDSA-C/B
2x2 plenum to 4x12 conversion	(1) 2x2 (1) 4x12	PFGF-PDSA-C/F	PFGC-PDSA-C/F
2x2 junction	–	PFGF-PJWR-C	–
2x2 end cap; *includes 2x2 junction*	–	PFGF-PMEC-C	–



Straight Section
(PFGF-PSHS-C)
Cover: PFGC-PSHS-C



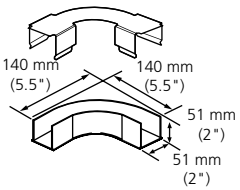
Horizontal T
(PFGF-PHRT-C)
Cover: PFGC-PHRT-C



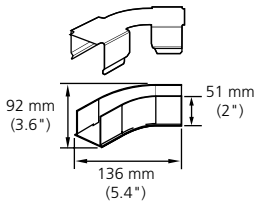
Horizontal Cross
(PFGF-PHXP-C)
Cover: PFGC-PHXP-C

Plenum FiberGuide® System

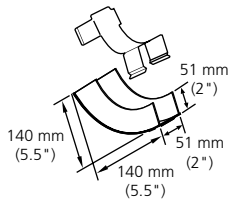
2x2 System – 2" H x 2" W



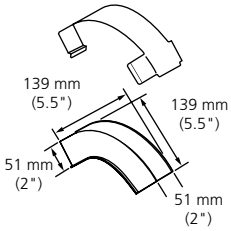
90° Horizontal Elbow
(PFGF-PH9E-C)
Cover: PFGC-PH9E-C



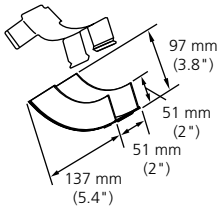
45° Horizontal Elbow
(PFGF-PH4E-C)
Cover: PFGC-PH4E-C



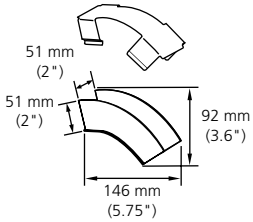
90° Up Elbow
(PFGF-PUPE-C)
Cover: PFGC-PUPE-C



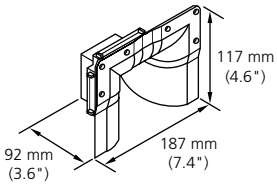
90° Down Elbow
(PFGF-PDNE-C)
Cover: PFGC-PDNE-C



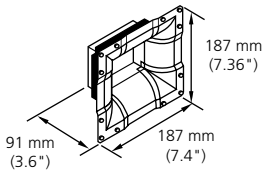
45° Up Elbow
(PFGF-PU4E-C)
Cover: PFGC-PU4E-C



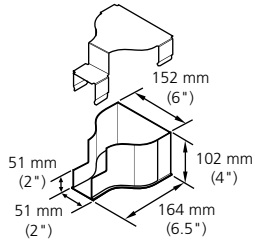
45° Down Elbow
(PFGF-PD4E-C)
Cover: PFGC-PD4E-C



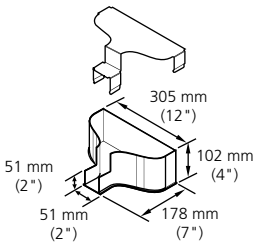
3-Sided Trumpet Flare
(PFGF-PTRM-C)



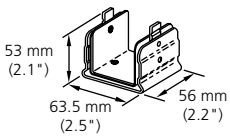
4-Sided Trumpet Flare
(PFGF-PFPT-C)



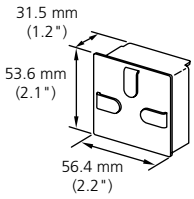
2x2 to 4x6 Conversion
(PFGF-PDSA-C/B)
Cover: PFGC-PDSA-C/B



2x2 to 4x12 Conversion
(PFGF-PDSA-C/F)
Cover: PFGC-PDSA-C/F



Junction
(PFGF-PJWR-C)



End Cap
(PFGF-PMEC-C)

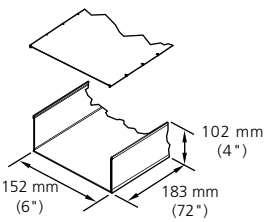
Plenum FiberGuide® System

4x6 System – 4" H x 6" W

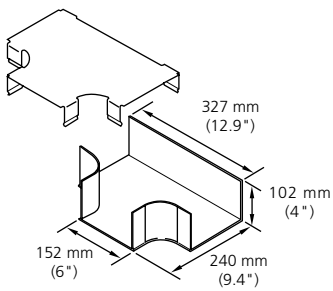
Ordering Information

Description	Number of Junctions	Product Number	
		Fitting	Snap-on Cover
4x6 straight section			
Straight section; *6' long*	–	PFGF-PSHS-B	PFGC-PSHS-B
4x6 fittings			
Horizontal T	3	PFGF-PHRT-B	PFGC-PHRT-B
Horizontal cross	4	PFGF-PHXP-B	PFGC-PHXP-B
90° horizontal elbow	2	PFGF-PH9E-B	PFGC-PH9E-B
45° horizontal elbow	2	PFGF-PH4E-B	PFGC-PH4E-B
90° up elbow	2	PFGF-PUPE-B	PFGC-PUPE-B
90° down elbow	2	PFGF-PDNE-B	PFGC-PDNE-B
45° up elbow	2	PFGF-PU4E-B	PFGC-PU4E-B
45° down elbow	2	PFGF-PD4E-B	PFGC-PD4E-B
4x6 trumpet flares			
Trumpet flare; *3 sided*	–	PFGF-PTRM-B	–
Trumpet flare; *4 sided*	–	PFGF-PFPT-B	–
4x6 conversions			
4x6 plenum to 4x6 standard conversion *One 4x6* ***plenum*** *junction kit required;* *4x6 standard junction* ***is not required***	1*	PFGF-PPSC-B	–
4x6 plenum to 4x12 plenum conversion	(1) 2x2 (1) 4x12	PFGF-PDSA-B/F	PFGC-PDSA-B/F
4x6 junction	–	PFGF-PJWR-B	–
4x6 end cap; *includes 4x6 junction*	–	PFGF-PMEC-B	–

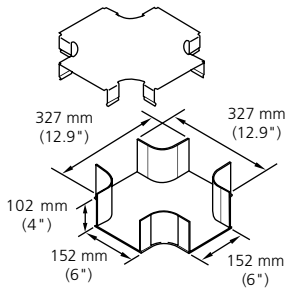
Note: For more information on Express Exits™, see pages 58-59, 90.



Straight Section
(PFGF-PSHS-B)
Cover : PFGC-PSHS-B



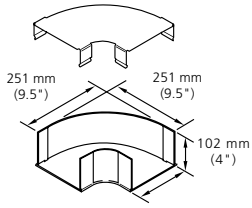
Horizontal T
(PFGF-PHRT-B)
Cover : PFGC-PHRT-B



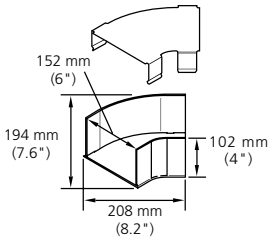
Horizontal Cross
(PFGF-PHXP-B)
Cover : PFGC-PHXP-B

Plenum FiberGuide® System

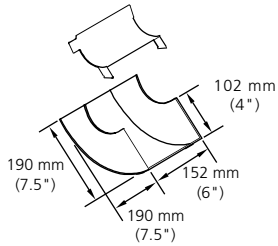
4x6 System – 4" H x 6" W



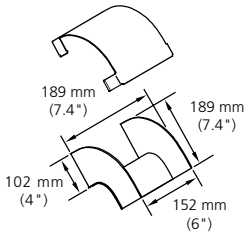
90° Horizontal Elbow
(PFGF-PH9E-B)
Cover : PFGC-PH9E-B



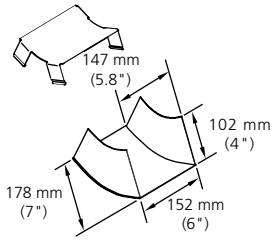
45° Horizontal Elbow
(PFGF-PH4E-B)
Cover : PFGC-PH4E-B



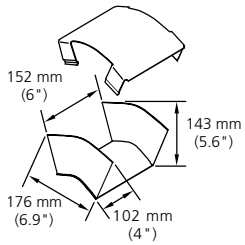
90° Up Elbow
(PFGF-PUPE-B)
Cover : PFGC-PUPE-B



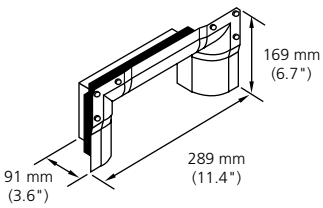
90° Down Elbow
(PFGF-PDNE-B)
Cover : PFGC-PDNE-B



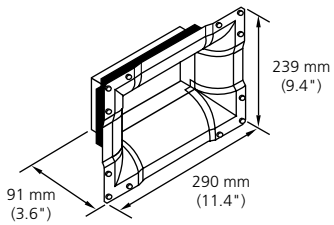
45° Up Elbow
(PFGF-PU4E-B)
Cover : PFGC-PU4E-B



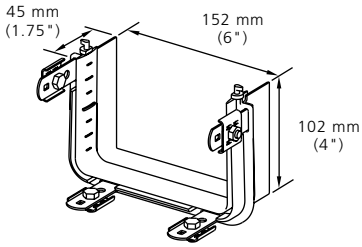
45° Down Elbow
(PFGF-PD4E-B)
Cover : PFGC-PD4E-B



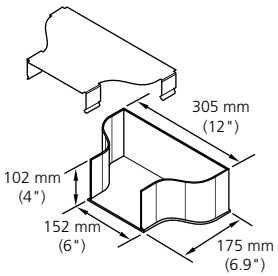
3-Sided Trumpet Flare
(PFGF-PTRM-B)



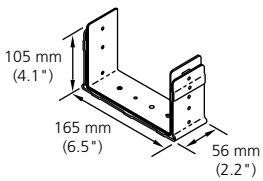
4-Sided Trumpet Flare
(PFGF-PFPT-B)



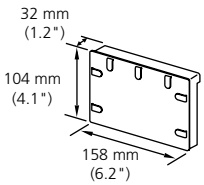
4x6 Plenum to
4x6 Standard Conversion
(PFGF-PPSC-B)
No Cover



4x6 to 4x12 Conversion
(PFGF-PDSA-B/F)
Cover : PFGC-PDSA-B/F



Junction
(PFGF-PJWR-B)



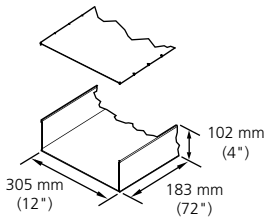
End Cap
(PFGF-PMEC-B)

Plenum FiberGuide® System

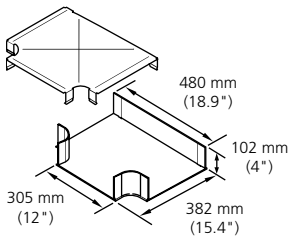
4x12 System – 4" H x 12" W

Ordering Information

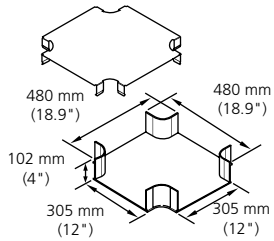
Description	Number of Junctions	Product Number	
		Fitting	Snap-on Cover
4x12 straight section			
Straight section; *6' long*	–	PFGF-PSHS-F	PFGC-PSHS-F
4x12 fittings			
Horizontal T	3	PFGF-PHRT-F	PFGC-PHRT-F
Horizontal cross	4	PFGF-PHXP-F	PFGC-PHXP-F
4x12/4x6 horizontal T		PFGF-PHRT-F/B	PFGC-PHRT-F/B
90° horizontal elbow	2	PFGF-PH9E-F	PFGC-PH9E-F
45° horizontal elbow	2	PFGF-PH4E-F	PFGC-PH4E-F
90° up elbow	2	PFGF-PUPE-F	PFGC-PUPE-F
90° down elbow	2	PFGF-PDNE-F	PFGC-PDNE-F
45° degree up elbow	2	PFGF-PU4E-F	PFGC-PU4E-F
45° degree down elbow	2	PFGF-PD4E-F	PFGC-PD4E-F
4x12 trumpet flares			
4x12 trumpet flare; *3 sided*	–	PFGF-PTRM-F	–
4x12 trumpet flare; *4 sided*	–	PFGF-PFPT-F	–
4x12 junction	–	PFGF-PJWR-F	–
4x12 end cap; *4x12 junction included*	–	PFGF-PMEC-F	–



Straight Section
(PFGF-PSHS-F)
Cover: PFGC-PSHS-F



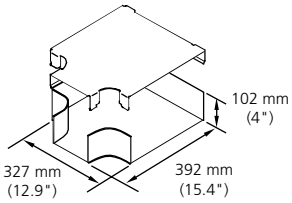
Horizontal T
(PFGF-PHRT-F)
Cover: PFGC-PHRT-F



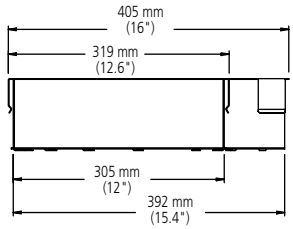
Horizontal Cross
(PFGF-PHXP-F)
Cover: PFGC-PHXP-F

Plenum FiberGuide® System

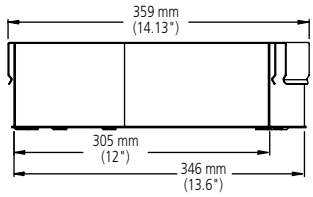
4x12 System – 4" H x 12" W



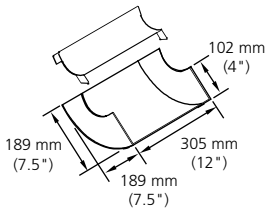
4x12/4x6 Horizontal T
(PFGF-PHRT-F/B)
Cover: PFGC-PHRT-F/B



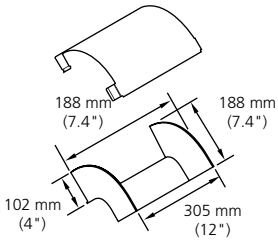
90° Horizontal Elbow
(PFGF-PH9E-F)
Cover: PFGC-PH9E-F



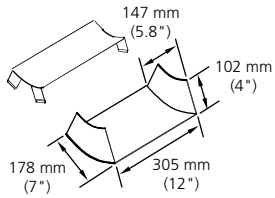
45° Horizontal Elbow
(PFGF-PH4E-F)
Cover: PFGC-PH4E-F



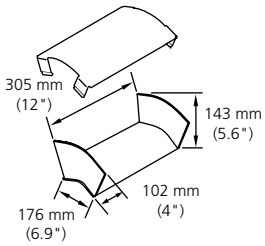
90° Up Elbow
(PFGF-PUPE-F)
Cover: PFGC-PUPE-F



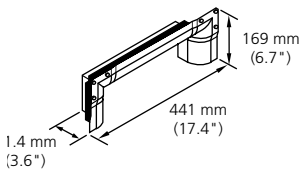
90° Down Elbow
(PFGF-PDNE-F)
Cover: PFGC-PDNE-F



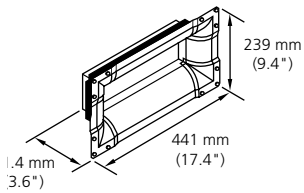
45° Up Elbow
(PFGF-PU4E-F)
Cover: PFGC-PU4E-F



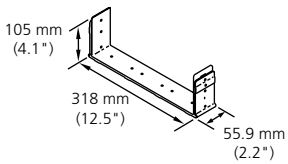
45° Down Elbow
(PFGF-PD4E-F)
Cover: PFGC-PD4E-F



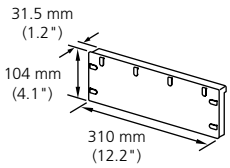
3-Sided Trumpet Flare
(PFGF-PTRM-F)



4-Sided Trumpet Flare
(PFGF-PFPT-F)



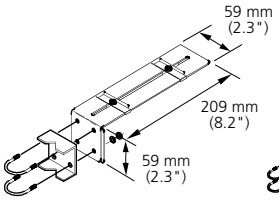
Junction
(PFGF-PJWR-F)



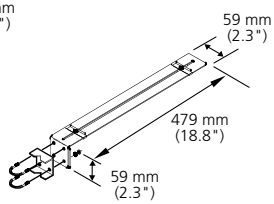
End Cap
(PFGF-PMEC-F)

Plenum FiberGuide® System

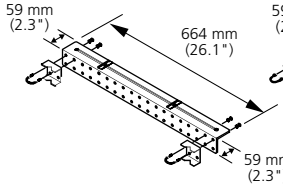
Accessories (Support Bracket Kits)



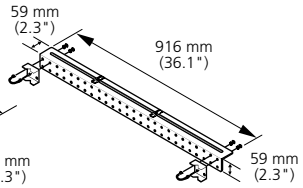
Short Bracket Kit
(PFGF-SSPT-C/B)



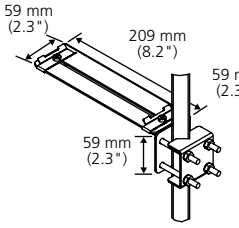
Long Bracket Kit
(PFGF-LSPT-C/B/F)



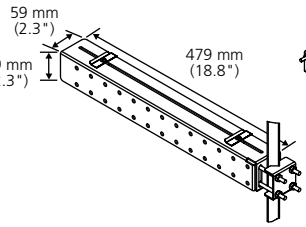
Span Bracket Kit
(PFGF-ESPT-C/B/F)



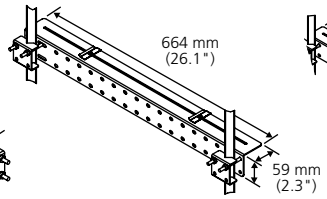
Diagonal Span Bracket Kit
(PFGF-DSPT-C/B/F)



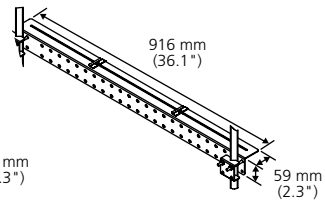
Short Bracket Kit with Square U-bolt
(PFGF-EASSPT-C/B)



Long Bracket Kit with Square U-bolt
(PFGF-EALSPT-C/B/F)



Span Bracket Kit with Square U-bolt
(PFGF-EAESPT-C/B/F)



Diagonal Span Bracket Kit with Square U-bolt
(PFGF-EADSPT-C/B/F)

Ordering Information

Description	Product Number
Short bracket kits	
For use with 2x2 and 4x6 sizes; 8.21" overall length	PFGF-SSPT-C/B
With square U-bolt for easy access mounting	PFGF-EASSPT-C/B
Long bracket kits	
For use with 2x2, 4x6, and 4x12 sizes; 18.84" overall length	PFGF-LSPT-C/B/F
With square U-bolt for easy access mounting	PFGF-EALSPT-C/B/F
Span bracket kits	
For use with 2x2, 4x6, and 4x12 sizes; spans 24" center to center floor struts	PFGF-ESPT-C/B/F
With square U-bolt for easy access mounting	PFGF-EAESPT-C/B/F
Diagonal span bracket kits	
For use with 2x2, 4x6, and 4x12 sizes; *spans diagonally up to 34" between struts*	PFGF-DSPT-C/B/F
With square U-bolt for easy access mounting	PFGF-EADSPT-C/B/F

Plenum FiberGuide® System

Accessories (Flexible Tubing)

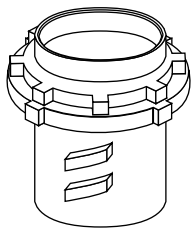
Plenum metallic 2-inch inner diameter flexible tubing is available for use in under floor applications where the exact layout of drop locations has not yet been defined, or where frequent changes in equipment location are expected. In future growth applications, the flexible tubing can be installed up front, and coiled under the floor until the exact configuration of equipment is established. The flexible tubing can then be routed to the drop location and fed through the flooring to the final location.

Flexible tubing options include a two-hose adapter that can be attached to a 6-inch standard fitting or straight section. The two-hose adapter comes complete with two 5-foot-long flexible hoses, and two end finishing couplers. When longer flexible tube requirements exist, multiple 5-foot-long extension tubes can be spliced into the two hose adapter to reach any length. The extension tubes are 5 feet long, and come with a splice coupler. Additional finishing couplers, mounting straps and splice couplers can be purchased separately.

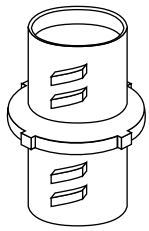
Ordering Information

Description	Product Number
One hose adapter, with 1.53 m (5') hoses and finishing couplers *For use with 2x2 openings*	PFGF-KT03-C
Two hose adapter, with 1.53 m (5') hoses and finishing coupler *For use with 4x6 openings*	PFGF-KT03-B
Extension tube; *1.53 m (5') long with splice coupler*	PFGF-HEXT
Finishing coupler	PFGF-HFIN
Mounting strap	PFGF-HMST
Splicing coupler	PFGF-HSPL
Flexible tubing; *51 mm (2") inner diameter (X = length in feet: 5, 15, 35, 75, 110, 150)*	PFGF-MIDY-XF

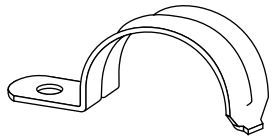
Extension Tube
(PFGF-HEXT)



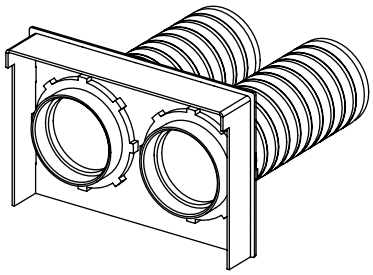
Finishing Coupler
(PFGF-HFIN)



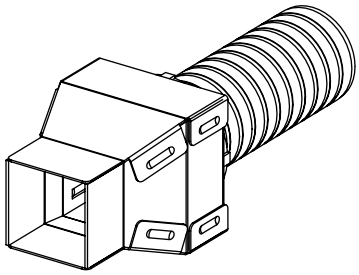
Splicing Coupler
(PFGF-HSPL)



Mounting Strap
(PFGF-HMST)



Two Hose Adapter
(PFGF-KT03-B)



One Hose Adapter
(PFGF-KT03-C)

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