

La legrand®

Data-Fense[™] Secure Raceway System

Enhanced Protection of Critical Networks

For Government, Financial Institutions, and R&D Facilities

nformation technology professionals in the Department of Defense, government agencies, corporations, R&D facilities, and financial institutions agree that enhanced physical security of wire and cable management systems is crucial to the overall reliability of high assurance networks. Within the government, physical security of classified networks is typically accomplished using a hardened carrier Protective Distribution System (PDS) for use as a protected pathway for these critical data networks.

The Data-Fense™ Secure Raceway System from Wiremold/Legrand is designed to address the primary objectives: provide a modular, scalable raceway design that provides enhanced aesthetics above and beyond EMT, minimize the deployment cost and complexity for secure networks or SCIF facilities, and enhance the security of and ability to defend high assurance networks through multiple classification areas.



Data-Fense Secure Raceway System with a DOD approved lock provides security and protection for high assurance networks.

Features & Benefits

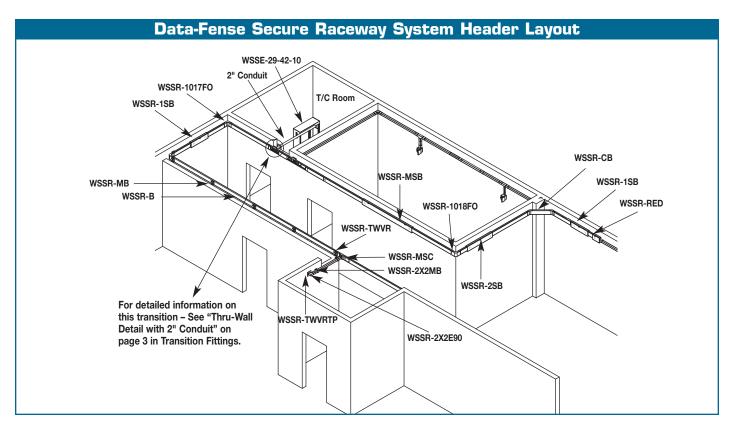
- Structurally locking base and cover design. Superior protection against overt, covert, and surreptitious attacks. Eliminates the need for distributed locking mechanisms.
- Seams located on the front of the raceway. Improves visual detection of attempts to penetrate the raceway along the base or cover. Speeds system inspections.
- Mounting brackets offset raceway from wall. Provides full 360° visual inspection of the raceway system and speeds system inspections.
- Limited access. Only access points to the system are through cable pull boxes or access enclosures that are secured by GSA approved hardened padlocks.
- Fittings overlap. Raceway covers slide onto base assemblies and overlap the "male-ended" fittings providing additional protection at every seam.
- Universal fittings. 2X2 and 1X1 Raceways have universal tee and elbow fittings reducing the number of components needed and speeding installation time.

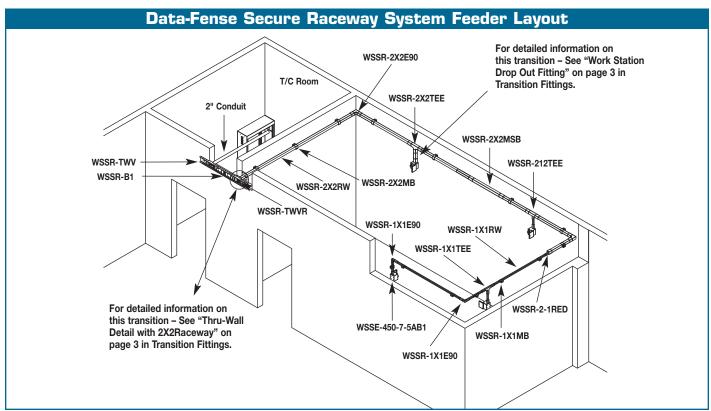
- Feeder channels. In addition to the 4 3/4" x 1 3/4" [121mm x 44mm] raceway, Data-Fense Secure Raceway System also includes two sizes of feeder channels with a full selection of fittings that provide a higher level of systemwide protection, are easier to inspect, and are more aesthetically pleasing than conduit.
- 2" [51mm] bend radius. All systems retaining 2" [51mm] bend radius compliance for use with multiple cable types.
- Aesthetically pleasing. Stocked color is fog white. Custom colors for Data-Fense Secure Raceway System match the colors offered for 4000 Series Raceway.
- **Durable and Secure.** Raceway, channels, fittings and enclosures of the Data-Fense Secure Raceway System are constructed of durable heavy gauge steel that meets hardened carrier Protection Distribution System (PDS) guidelines for use in protective pathways for critical data networks.
- Factory-welded raceway adapters. Enclosures have factory-welded raceway adapters which provide more security and speeds inspection time by eliminating the need to open enclosures for inspections.

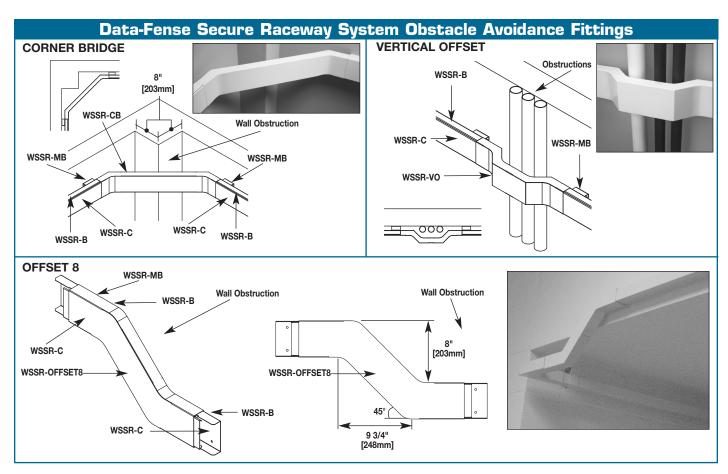
NOTE: DoD locks, epoxy, and mounting hardware supplied by others. Secure Solutions Raceway System evaluated with Sargent & Greenleaf, DoD lock, and 3M Epoxy. Custom colors available. Consult the factory or your local Wiremold representative.

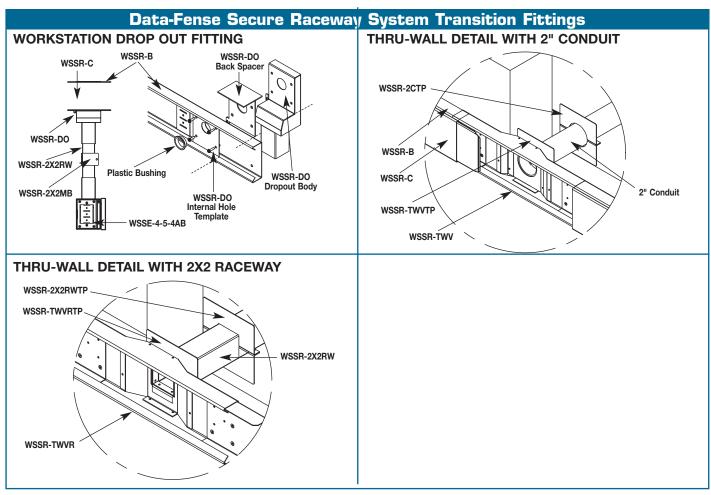
Data-Fense Secure Raceway System Configurability

While the standard product offering of Data-Fense[™] Secure Raceway System will meet the requirements for most installations, custom-designed fittings and options are also available. Consult the factory or your local Wiremold/Legrand representative for more information on the custom options available.









Data-Fense Secure Raceway System Wire Fill Capacity Charts

NOTE: This product is intended for data and communications only. It is not intended, nor should it be used for power applications.

4 3/4" [121mm] Raceway Wire Fill Capacities for Communications				
CABLE TYPE	CATEGORY/ DESIGNATION	O. Inches	D. [mm]	40% FILL
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3 4-pair, 24 AWG Cat 5e 4-pair, 24 AWG Cat 6 4-pair, 24 AWG Cat 6a* 25-pair, 24 AWG	0.190 0.210 0.250 0.354 0.410	[4.8] [5.3] [6.3] [9.0] [10.4]	101 83 58 29 21
COAXIAL	RG6/U	0.270	[6.9]	50
FIBER	ZipCord Round 4 Strand Fiber Round 6 Strand Fiber	0.118 x 0.236 0.187 0.256	[3 x 6] [4.8] [6.5]	103 104 55

^{*} Category 6 Augmented cable for 10 gigabit ethernet – max allowed cable diameter per Addendum 11 to ANSI/TIA-568-B.2.

2" [51mm] Raceway Wire Fill Capacities for Communications				
CABLE TYPE	CATEGORY/ DESIGNATION	O.I Inches	D. [mm]	40% FILL
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3 4-pair, 24 AWG Cat 5e 4-pair, 24 AWG Cat 6 4-pair, 24 AWG Cat 6a* 25-pair, 24 AWG	0.190 0.210 0.250 0.354 0.410	[4.8] [5.3] [6.3] [9.0] [10.4]	50 41 29 14 10
COAXIAL	RG6/U	0.270	[6.9]	25
FIBER	ZipCord Round 4 Strand Fiber Round 6 Strand Fiber	0.118 x 0.236 0.187 0.256	[3 x 6] [4.8] [6.5]	51 52 28

^{*} Category 6 Augmented cable for 10 gigabit ethernet – max allowed cable diameter per Addendum 11 to ANSI/TIA-568-B.2.

1" [25mm] Raceway Wire Fill Capacities for Communications				
CABLE TYPE	CATEGORY/ DESIGNATION	O.I Inches	D. [mm]	40% FILL
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3 4-pair, 24 AWG Cat 5e 4-pair, 24 AWG Cat 6 4-pair, 24 AWG Cat 6a* 25-pair, 24 AWG	0.190 0.210 0.250 0.354 0.410	[4.8] [5.3] [6.3] [9.0] [10.4]	11 9 6 3 2
COAXIAL	RG6/U	0.270	[6.9]	5
FIBER	ZipCord Round 4 Strand Fiber Round 6 Strand Fiber	0.118 x 0.236 0.187 0.256	[3 x 6] [4.8] [6.5]	12 12 6

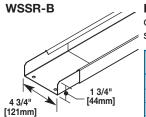
^{*} Category 6 Augmented cable for 10 gigabit ethernet – max allowed cable diameter per Addendum 11 to ANSI/TIA-568-B.2.

Data-Fense Secure Raceway System Ordering Information

Catalog No./Item

Description/Specifications

All components of Data-Fense Secure Raceway System are manufactured from 18 gauge galvannealed (satin coat) steel.



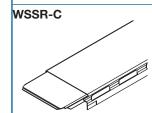
Raceway Base – Includes welded coupling on one end of each section of base.

PART	LENGTH		
NUMBER	Inches	[mm]	
WSSR-B	120"	[3.0m]	
WSSR-B1	12"	[305.0mm]	
WSSR-B2	24"	[610.0mm]	
WSSR-B5	60"	[1.5m]	



Raceway Base – Base section without welded coupling. For connecting a fitting and a section of base with coupling or between two fittings to avoid field cutting.

PART	LENGTH		
NUMBER	Inches	[mm]	
WSSR-BNC	120"	[3.0m]	
WSSR-B1NC	12"	[305.0mm]	
WSSR-B2NC	24"	[610.0mm]	
WSSR-B5NC	60"	[1.5m]	



Raceway Cover – Includes welded overlap on one end of each section of cover.

PART	LENGTH		
NUMBER	Inches	[mm]	
WSSR-C	5'	[1.5m]	
WSSR-C1	1'	[305.0mm]	
WSSR-C2	2'	[610.0mm]	

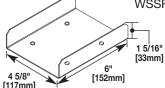


Raceway Cover – Cover section without welded overlap. For connecting a fitting and a section of cover with coupling or between two fittings to avoid field cutting.

PART	LENGTH		
NUMBER	Inches	[mm]	
WSSR-CNO	5'	[1.5m]	
WSSR-C1NO	1'	[305.0mm]	
WSSR-C2NO	2'	[610.0mm]	



Coupling – Used to connect two sections of WSSR-B when two sections meet with no attached coupling or when coupling field cut WSSR-B sections together.

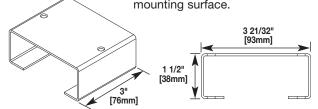


Catalog No./Item D

Description/Specifications

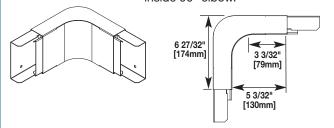
WSSR-MB

Mounting Bracket – Used to attach WSSR-B Raceway Base to mounting surface.

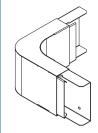


WSSR-1017FO

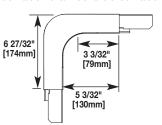
Bend Radius Inside 90° Elbow – 2" [51mm] bend radius compliant inside 90° elbow.



WSSR-1017FOR

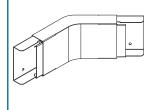


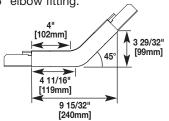
Inside/Outside Elbow – To transition Data-Fense Secure Raceway System from an inside surface to an outside surface.



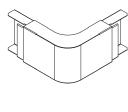
WSSR-1017F0E45

Bend Radius Inside Elbow – 2" [51mm] bend radius compliant 45° elbow fitting.

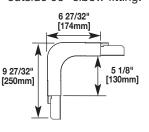


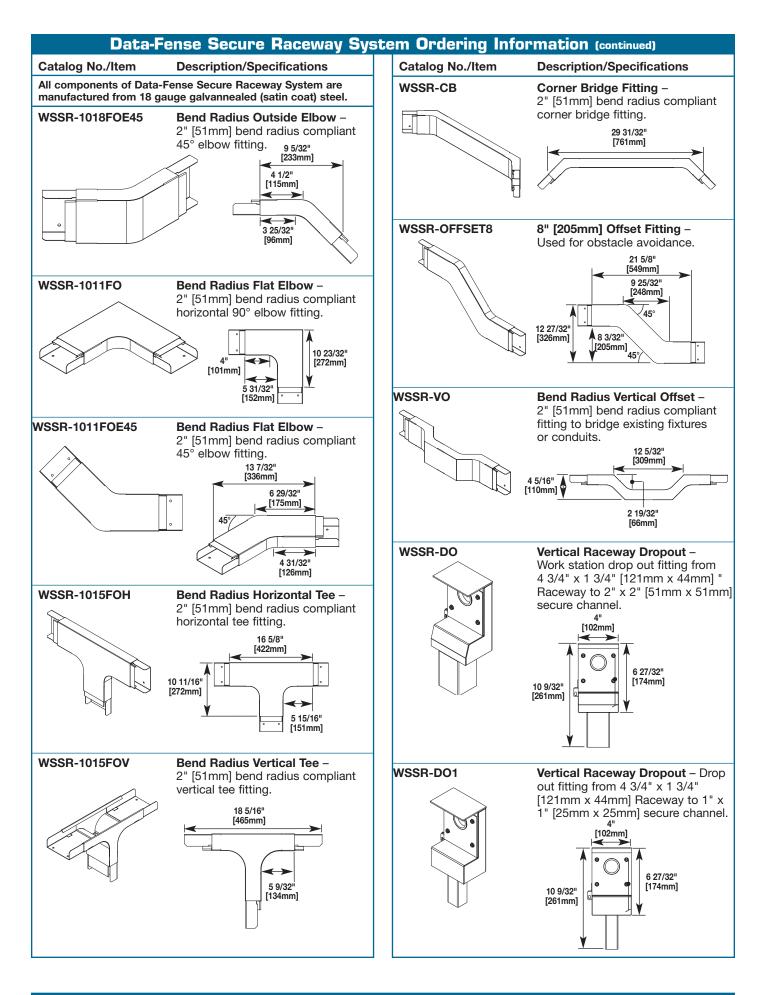


WSSR-1018FO



Bend Radius Outside Elbow – 2" [51mm] bend radius compliant outside 90° elbow fitting.





Data-Fense Secure Raceway System Ordering Information (continued) Catalog No./Item **Description/Specifications** Catalog No./Item **Description/Specifications** All components of Data-Fense Secure Raceway System are **WSSR-TWH** Horizontal Thru-Wall Fitting manufactured from 18 gauge galvannealed (satin coat) steel. Used to connect one 2" EMT conduit to 4 3/4" x 1 3/4" [121mm End Cap - Used to close off end **WSSR-EC** x 44mm] Raceway system. of Data-Fense Secure Raceway System. 4 3/4" [121mm] 6 9/32" [160mm] [45mm] **WSSR-ETERM End Termination Unit -**WSSR-TWH-2 Horizontal Thru-Wall Fitting -End termination box. Used to connect two 2" EMT 10 5/16" conduits to 4 3/4" x 1 3/4" [121mm x 44mm] Raceway system. 6 9/32" [160mm] 6 9/321 [160mm] WSSR-1SB Cable Access Slack Box -WSSR-2SB WSSR-1SB is used to install 1' [305mm] covers. WSSR-2SB is **WSSR-TWVR** Through Wall Fitting used to install 1' [305mm] and Used to connect one 2" x 2" [51mm 2' [610mm] covers. x 51mml Secure Raceway when 25" continuing or feeding system from [635mm] WSSR-1SB other side or surface. 6 9/32"

[160mm]

36 7/8"

couple raceway sections crossing

[152mm]

0

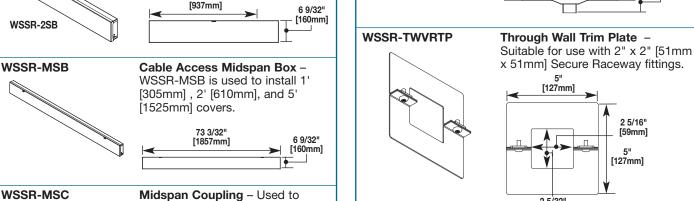
0

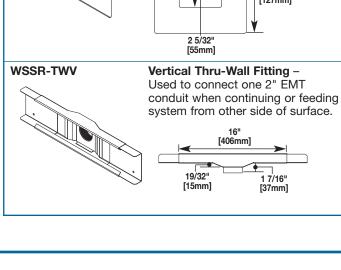
hallways, where there is no

mounting surface available.

0

4 29/32" [125mm]





10 9/32" [261mm]

> 12 1/4" [311mm]

10 9/32" [261mm]

11 3/16"

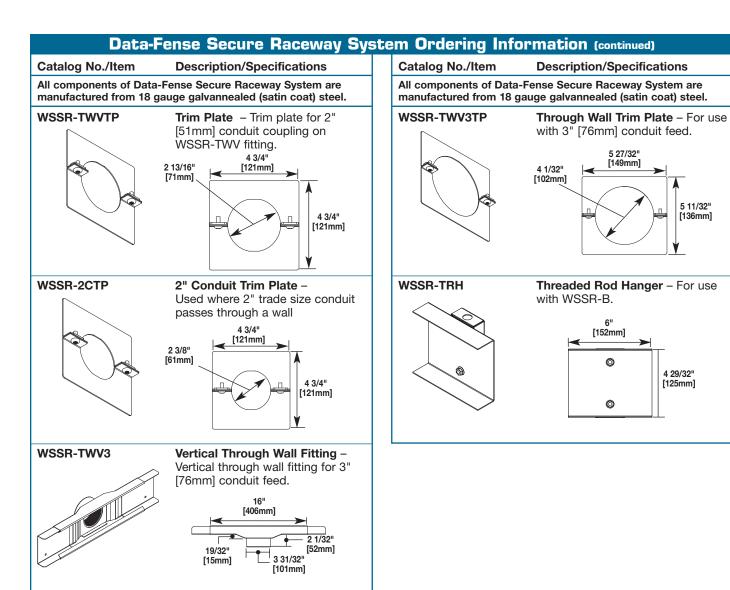
[284mm]

16"

[406mm]

3 17/32"

[90mm]



Data-Fense Secure Raceway System 2X2 Raceway Ordering Information

Catalog No./Item

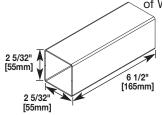
Description/Specifications

Data-Fense Secure Raceway System 2X2 Raceway is manufactured from 16 gauge 409 stainless steel. Components of Data-Fense Secure Raceway System 2X2 Raceway are manufactured from 16 gauge galvannealed (satin coat) steel.



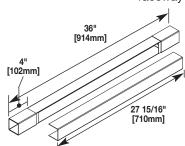
2" x 2" Raceway - 2" [51mm] raceway. Sold in 10' [3m] lengths.

WSSR-2X2C 2" x 2" Raceway Coupling -Fitting to join together two sections of WSSR-2X2RW.



WSSR-2X2SB

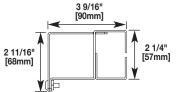
Cable Access Slack Box - Used to assist in pulling cables in longer raceway runs.



WSSR-2X2MB

Mounting Bracket - 2" [51mm] raceway bracket. Used to attach WSSR-2X2RW to mounting surface.

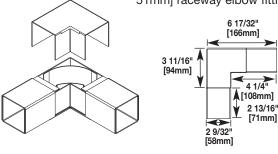




WSSR-2X2E90

Universal Elbow - 2" [51mm] bend radius compliant 2" x 2" [51mm x 51mm] raceway elbow fitting.

[71mm]

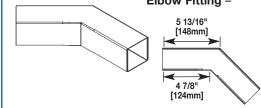


Catalog No./Item

Description/Specifications

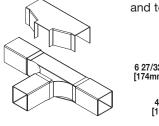
WSSR-2X2E45

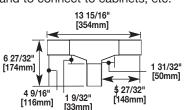
Bend Radius Compliant 45° Elbow Fitting -



WSSR-2X2TEE

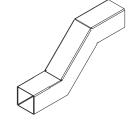
Universal Tee Fitting - Used to join sections of WSSR-2X2 Raceway and to connect to cabinets, etc.

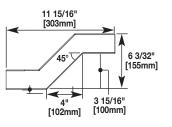




WSSR-2X2VO

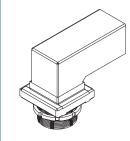
2X2 Offset Fitting - Used for vertical or horizontal offset. Contact factory for custom offset requirements.

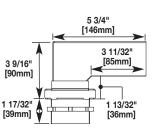




WSSR-2X2CA90

Conduit or Cabinet Connector -Used to connect 2X2 Raceway to cabinets, 2" conduit etc.





Data-Fense Secure Raceway System 2X2 Raceway Ordering Information (continued)

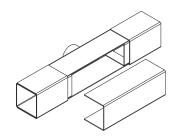
Catalog No./Item

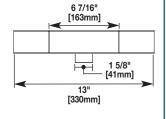
Description/Specifications

Data-Fense Secure Raceway System 2X2 Raceway is manufactured from 16 gauge 409 stainless steel. Components of Data-Fense Secure Raceway System 2X2 Raceway are manufactured from 16 gauge galvannealed (satin coat) steel.

WSSR-2X2TWV1C

Through Wall Fitting – Used to backfeed system by connecting 1" trade size conduit to WSSR-2X2RW.

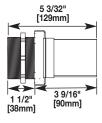




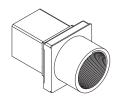
WSSR-2X2CA



2X2 Raceway Conduit Adapter – Adapter to connect 2" [51mm] raceway to 2" [51mm] EMT conduit or attach to enclosure. Includes lock nut.

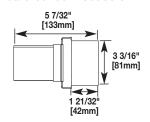


WSSR-2X2CATW

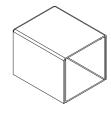


2X2 Raceway Conduit Adapter -

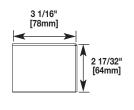
Adapter to connect 2" [51mm] raceway to 2" [51mm] EMT conduit for thru-wall applications. Adapter has internal thread that accepts standard conduit reducers.



WSSR-2X2EC



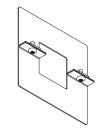
Raceway End Cap – Used to close off end of WSSR-2X2 Raceway.



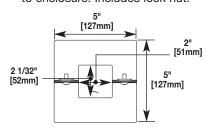
Catalog No./Item



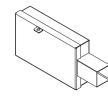
WSSR-2X2RWTP



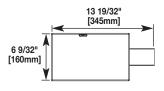
Raceway Trim Plate – Adapter to connect 2" [51mm] raceway to 2" [51mm] EMT conduit or attach to enclosure. Includes lock nut.



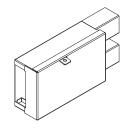
WSSR-RED



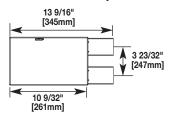
Channel Reducer Fitting – 1 3/4" x 4 3/4" [121mm x 44mm] reduced to 2" x 2" [51mm x 51mm] Raceway.



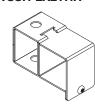
WSSR-4-2SPLIT



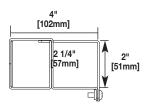
2X2 Raceway Split Fitting – Splits 4 3/4" x 1 3/4" [121mm x 44mm] Secure Solution Series Raceway into two 2X2 Raceways.



WSSR-2X2TRH



Threaded Rod Hanger – For supporting 2X2 Raceway where no mounting surface is available. For use with 1/2" or 3/8" threaded rod.



Data-Fense Secure Raceway System 1X1 Raceway Ordering Information (continued) Catalog No./Item **Description/Specifications** Catalog No./Item **Description/Specifications** Data-Fense Secure Raceway System 1X1 Raceway is WSSR-1X1TEE Universal Tee Fitting - To manufactured from 18 gauge 304 stainless steel. Components join two sections of WSSR-1X1RW. of Data-Fense Secure Raceway System 1X1 Raceway are manufactured from 16 gauge galvannealed (satin coat) steel. 12 29/32" [328mm] WSSR-1X1RW Raceway - 1" x 1" [25mm x 25mm] 6 9/32" raceway. Sold in 10' [3m] lengths. [159mm] 5 27/32" [148mm] 10' 4 9/16¹ [3m] [116mm] 5 13/16" [148mm] 1 9/32" [51mm] [33mm] 1 9/32" [32mm] [25mm] WSSR-212TEE **Universal Transition Fitting -**WSSR-1X1C Raceway Coupling Fitting - To Used to transition from WSSRjoin two sections of WSSR-1X1RW. 2X2RW to WSSR-1X1RW. Epoxied on cover. 13" [330mm] 6 1/21 [165mm] 6 7/16" [163mm] 2 1/4" 5/32" 1 9/32 [29mm] WSSR-1X1EC 1" x 1" [25mm x 25mm] Raceway End cap - Used to WSSR-1X1MB Mounting Bracket - 1" [25mm] close off end of WSSR-2X2RW. raceway bracket. Used to attach WSSR 1X1 raceway to 3 1/16" mounting surface. [78mm] 2 9/16" [65mm] 1 9/32" [33mm] 1 1/4" [31mm] 1 1/2" WSSR-2-1RED Reducer Fitting - 2X2 to 1X1 [38mm] reducer. **WSSR-1X1E90** Universal Elbow - 2" bend radius compliant 1X1 raceway elbow fitting. 5 5/16" [135mm] 6 1/2" [165mm] 2 11/16" [68mm] 2 5/32"

[102mm]

1 9/32" [32mm]

2 9/16"

[65mm]

[55mm]

1 5/32"

[29mm]

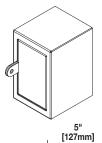
Data-Fense Secure Raceway System Enclosures Ordering Information

Catalog No./Item

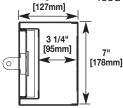
Description/Specifications

All the Data-Fense Secure Raceway System Enclosures on this page are manufactured from 16 gauge galvannealed (satin coat) steel.

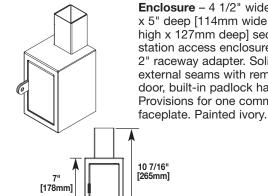
WSSE-450-7-5



Secure Work Station Access Enclosure – 4 1/2" wide x 7" high x 5" deep [114mm wide x 178mm high x 127mm deep] secure work station access enclosure. Solid welded external seams with removable door with built-in padlock hasp. Painted ivory. Provisions for one commercial faceplate. Requires field-installed feed opening.



WSSE-450-7-5AB



Secure Work Station Access Enclosure - 4 1/2" wide x 7" high x 5" deep [114mm wide x 178mm high x 127mm deep] secure work station access enclosure with 2" x 2" raceway adapter. Solid welded external seams with removable door, built-in padlock hasp. Provisions for one commercial

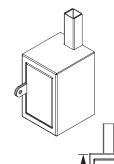
NOTE: Data-Fense Secure Raceway System Enclosures accommodate the new Ortronics Secure/Keyed pre-polished LC Multimode Connectors.

Other enclosure configurations are available. Consult the factory or your local Wiremold representative.

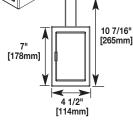
Catalog No./Item

Description/Specifications

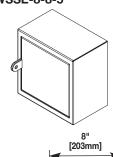
WSSE-450-7-5AB1



Secure Work Station Access Enclosure – 4 1.2" wide x 7" high x 5" deep [114mm wide x 178mm high x 127mm deep1 secure work station access enclosure with 1X1 Raceway adapter. Solid welded external seams with removable door, built-in padlock hasp. Provision for one commercial faceplate. Painted ivory.

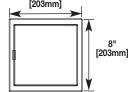


WSSE-8-8-5

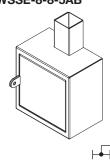


Secure Enclosure -

8" wide x 8" high x 5" deep [203mm wide x 203mm high x 127mm deep] secure enclosure. Solid welded external seams with removable door, built-in padlock hasp. Provisions for two commercial faceplates. Painted ivory. Requires field-installed feed opening. 3 1/4" [95mm] depth behind device plate.

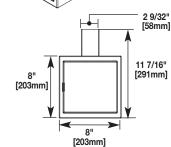


WSSE-8-8-5AB



Secure Enclosure -

8" wide x 8" high x 5" deep [203mm wide x 203mm high x 127mm deep] secure enclosure. Solid welded external seams with removable door, built-in padlock hasp. Provisions for two commercial faceplates and one 2" x 2" [51mm x 51mm] raceway adapter. Painted ivory.



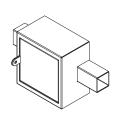
Data-Fense Secure Raceway System Enclosures Ordering Information (continued)

Catalog No./Item

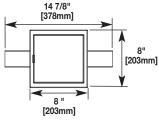
Description/Specifications

All the Data-Fense Secure Raceway System Enclosures on this page are manufactured from 16 gauge galvannealed (satin coat) steel.

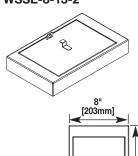
WSSE-8-8-5AB-PB



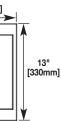
Secure Enclosure Pull Box – 8" wide x 8" high x 5" deep [203mm wide x 203mm high x 127mm deep] secure enclosure. Solid welded external seams with removable door, built-in padlock hasp. Provisions for two commercial faceplates and two 2" x 2" [51mm x 51mm] raceway adapters. Painted ivory.



WSSE-8-13-2

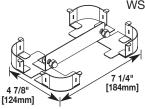


Secure Work Station Access Enclosure – 8" wide x 13" high x 2" deep [203mm wide x 330mm high x 51mm deep] secure work station access enclosure. Solid welded external seams with removable hinged door with padlock hasp. Painted ivory.



WSSE-DTFB





 \Box

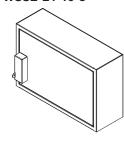
NOTE: Data-Fense Secure Raceway System Enclosures accommodate the new Ortronics Secure/Keyed pre-polished LC Multimode Connectors.

Other enclosure configurations are available. Consult the factory or your local Wiremold representative.

Catalog No./Item

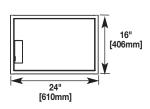
Description/Specifications

WSSE-24-16-8

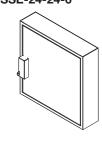


Secure Enclosure -

24" wide x 16" high x 8" deep [610mm wide x 406mm high x 203mm deep]. Solid welded external seams with removable hinged door. 3-point L-Handle with built-in padlock hasp. Painted ivory.

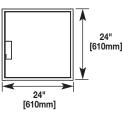


WSSE-24-24-6



Secure Enclosure -

24" wide x 24" high x 6" deep [610mm wide x 610mm high x 152mm deep] Solid welded external seams with removable hinged door. 3-point L-handle with built-in padlock hasp. Painted ivory.



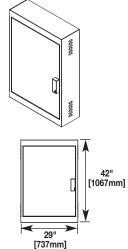
Data-Fense Secure Raceway System Enclosures Ordering Information (continued)

Catalog No./Item

Description/Specifications

All the Data-Fense Secure Raceway System Enclosures on this page are manufactured from 14 gauge galvannealed (satin coat) steel.

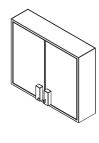
WSSE-29-42-10



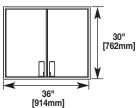
Secure Enclosure -

29" wide x 42" high x 10" deep [737mm wide x 1067mm high x 254mm deep]. Solid welded external seams, side ventilation louvers. Single removable door has 3-point locking L-Handle with secure handle cover. Painted ivory. Supplied with two 36" [914mm] adjustable shelf standards, one pair of 6" [152mm] shelf brackets, 2 pairs of 4" [102mm] pivoting shelf brackets. All brackets have mounting hole pattern for Ortronics Clarity® 19" [482mm] Patch Panels.

WSSE-36-30-9



Secure Enclosure – 36" wide x 30" high x 9" deep [914mm wide x 762mm high x 229mm deep] Solid welded external seams with double removable hinged doors, Each door has 3-point locking L-Handle with built-in padlock hasps.

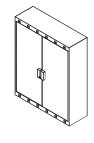


NOTE: Data-Fense Secure Raceway System Enclosures accommodate the new Ortronics Secure/Keyed pre-polished LC Multimode Connectors.

Other enclosure configurations are available. Consult the factory or your local Wiremold representative.

Catalog No./Item

WSSE-48-60-16



60" [1524mm] 48" [1219mm]

Description/Specifications

Secure Enclosure -

48" wide x 60" high x 16" deep [1219mm wide x 1524mm high x 406mm deep]. Solid welded external seams, front ventilation louvers. Two fixed hinge doors with 3-point locking L-Handles with secure handle covers. Painted ivory. Supplied with two sets of 36" [914mm] adjustable shelf standards, three (3) 18" [457mm] wide x 10" [254mm] deep shelves.

WSSR-PAINT



Touch-Up Paint – Touch-up paint to match Data-Fense Secure Raceway System standard Ivory color. Bottle contains 6 ounces of paint.

Notes

Notes





Wiremold / Legrand

U.S. and International:
60 Woodlawn Street • West Hartford, CT 06110
1-800-621-0049 • FAX 860-232-2062 • Outside U.S. 860-233-6251
Canada:
570 Applewood Crescent • Vaudhan Ontario I 4K 4B4

570 Applewood Crescent • Vaughan, Ontario L4K 4B4 1-800-723-5175 • FAX 905-738-9721



