legrand®

Wiremold

ECLIPSE™
PN03, PN05, PN10 Series

Small Nonmetallic Raceway Systems
For Communications and Power Applications

Wiremold Eclipse™ PN03, PN05, and PN10 Series Raceways are a family of single compartment raceways designed for communication or power applications. They are ideal for use in classrooms, offices, and hotel applications, or anywhere a small, low profile raceway is needed.

Eclipse PN03, PN05, and PN10 Series Raceways are specifically designed for the workstation. They accept Ortronics® Series II and TracJack® modules, Pass & Seymour® Activate Series inserts, and Wiremold Open System communication modules.

Eclipse PN05L08 shown in a horizontal installation.

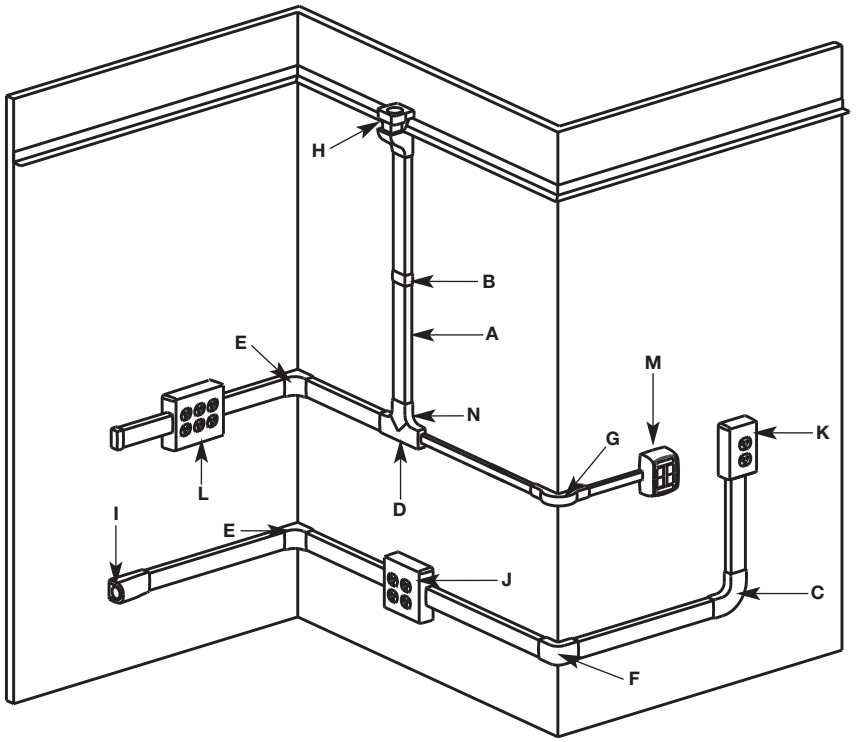
FEATURES & BENEFITS

- **Raceway available in three sizes.** PN03, PN05, and PN10 sizes provide flexibility for meeting various capacity requirements. Perfect for most small drops and horizontal runs to work stations.
- **Durable, flexible co-extruded hinge construction (on latching profiles).** Allows for repeated openings and closings while maintaining product integrity and aesthetics.
- **Snap-on latching cover.** Provides security with access to wiring for changes or additions.
- **Three standard colors.** Stock colors are ivory, white, and fog white (matches with Ortronics® White). Consult factory for custom colors. Paintable using latex paint.
- **1" [25mm] bend radius compliant fittings.** Full capacity, aesthetically pleasing fittings provide 1" [25mm] bend radius.
- **Adhesive backing for low-voltage (under 50V) applications.** Allows base to be pressed onto surface, speeds installation.
- **Lightweight and easy to handle.** Saves time and labor costs. Standard 8' [2.44m] lengths can be installed by one person.
- **Designed for use with Ortronics® TracJack and Series II modules.** A wide variety of media interface inserts to ensure a reliable, cost-effective activation for the most demanding communication system designs.
- **PSB3 Device Box accommodates wireless.** Designed for use with Ortronics® Wi-Jack™ Wireless Access Points.
- **Accommodates communication or power wiring.** Can be used for communications, computer lines, surveillance systems, fire alarms, outlets, and more.
- **Easy to align.** All base and fittings have unique alignment guides built in to help avoid unsightly gaps and uneven installations. All fitting covers have 1/4" [6.4mm] overlap to hide uneven cuts of raceway.
- **Ceiling fitting slips over suspended ceiling grid.** Saves time and labor by eliminating need to cut metal ceiling grid.
- **FT-4 Flame Spread Rating.** Eclipse™ Raceway meets the definition of “resistant to the spread of fire” in Article 760 of the NEC and is therefore suitable for use with Type NPLF non-power-limited fire alarm cable and Type FPL power-limited fire alarm cable.
- **Datacom connectivity options.** Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing communications interface at the point of use.
- **UL and cUL Listed component raceways.** File E90378 Guide RJTX, Fittings: File E90377 Guide RJYT. Meets Article 386 of NEC and meets Section 12-600 of CEC.
- **Ratings:** 600VAC, FT-4 Rated for Canada

Eclipse PN05L08 shown in typical vertical installations.

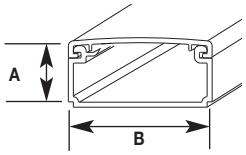
PN03, PN05, and PN10 System Layout

A – PN03L08, PN03L10, PN05L08, PN05L10, PN10L08, PN10L10
B – PN03F06, PN05F06, PN10F06
C – PN03F11, PN05F11, PN10F11
D – PN03F15, PN05F15, PN10F15
E – PN03F17, PN05F17, PN10F17
F – PN03F18, PN05F18, PN10F18
G – PN03F19, PN05F19, PN10F19
H – PN05F86, PN10F86
I – PN10F21
J – PSB2
K – PSB1
L – PSB3
M– PDB1CM, PDB1S2, PDB2TJ, PDB2CM, PDB2S2, PDB4TJ, PBB2S2, PBB4TJ
N – PN153R



Raceway Profiles

Catalog No./Item	Description/Specifications
PN03L08* **PN03L10**** **PN05L08*** **PN05L10**** **PN10L08*** **PN10L10****	**One-Piece Raceway** – Co-extruded hinged, one-piece raceway.



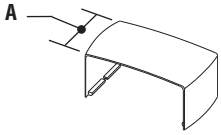
Cat No.	A	B
PN03L08	1/2" [12.7mm]	13/16" [20.6mm]
PN03L10	1/2" [12.7mm]	13/16" [20.6mm]
PN05L08	5/8" [15.9mm]	1 1/8" [29mm]
PN05L10	5/8" [15.9mm]	1 1/8" [29mm]
PN10L08	13/16" [20.6mm]	1 11/16" [43mm]
PN10L10	13/16" [20.6mm]	1 11/16" [43mm]

*** Add -"WH" suffix for White finish, -"FW" for Fog White finish or -"V" for Ivory finish.**
**** 10' [3.05m] lengths available in Fog White finish only.**

PN03, PN05, and PN10 Surface Nonmetallic Raceway Fittings

Catalog No./Item	Description/Specifications

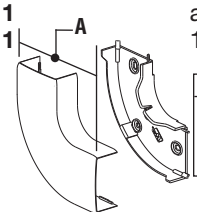
PN03F06
PN05F06
PN10F06



Cover Clip – Covers seam where two lengths of PN03, PN05, or PN10 Series Raceway meet.

Cat No.	A
PN03F06	1" [25mm]
PN05F06	1" [25mm]
PN10F06	1" [25mm]

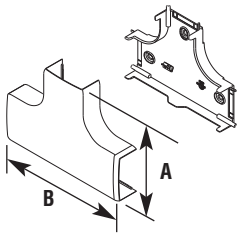
PN03F11
PN05F11
PN10F11



90° Flat Elbow – Makes right angle turns on same surface. 1" [25mm] bend radius.

Cat No.	A
PN03F11	2 11/16" [68mm]
PN05F11	2 15/16" [75mm]
PN10F11	3 11/16" [94mm]

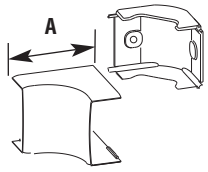
PN03F15
PN05F15
PN10F15



Tee – Branches raceway at right angles on the same surface. 1" [25mm] bend radius.

Cat No.	A	B
PN03F15	2 11/16" [68mm]	4 5/16" [110mm]
PN05F15	2 15/16" [75mm]	4 3/4" [121mm]
PN10F15	3 11/16" [94mm]	5 5/16" [135mm]

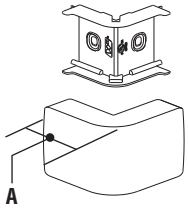
PN03F17
PN05F17
PN10F17



Internal Elbow – Makes right angle turns around internal corners. 1" [25mm] bend radius.

Cat No.	A
PN03F17	2 1/8" [54mm]
PN05F17	2 1/8" [54mm]
PN10F17	2 1/8" [54mm]

PN03F18
PN05F18
PN10F18

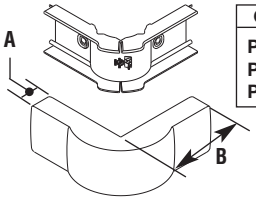


External Elbow – Makes right angle turns around external corners.

Cat No.	A
PN03F18	1 5/8" [41mm]
PN05F18	1 5/8" [41mm]
PN10F18	1 5/8" [41mm]

Catalog No./Item	Description/Specifications

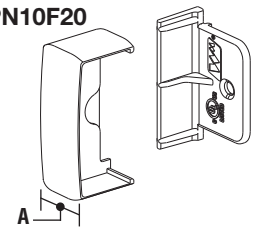
PN03F19
PN05F19
PN10F19



90° External Elbow – Makes right angle turns around external corners. 1" [25mm] bend radius.

Cat No.	A	B
PN03F19	15/16" [23.8mm]	3 1/8" [79mm]
PN05F19	1 3/16" [30mm]	3 1/8" [79mm]
PN10F19	1 3/16" [30mm]	3 3/8" [116mm]

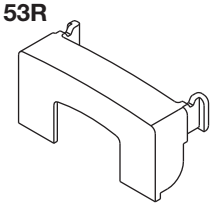
PN03F20
PN05F20
PN10F20



Blank End Fitting – Closes off open end of raceway.

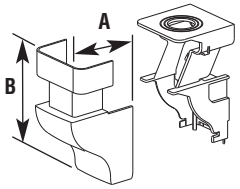
Cat No.	A
PN03F20	11/16" [17.5mm]
PN05F20	11/16" [17.5mm]
PN10F20	11/16" [17.5mm]

PN153R



Reducer Adapter – Connects PN03 or PN05 Series Raceway to PN10 Series Raceway. Use with a PN10F15 Tee Fitting.

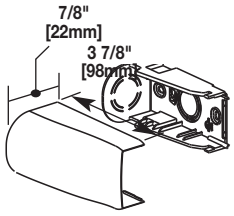
PN05F86
PN10F86



Drop Ceiling Connector – Connects cables from ceiling into PN03, PN05 or PN10 Series Raceway. Includes PN153R Reducer Adapter for use with PN03 Series Raceway.

Cat No.	A	B
PN05F86	1 5/16" [33mm]	4 3/8" [111mm]
PN10F86	2 1/2" [64mm]	4 3/8" [111mm]

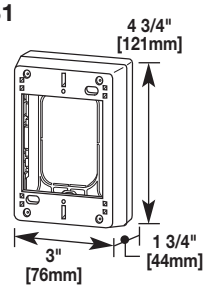
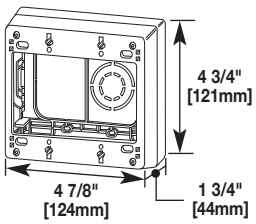
PN10F21



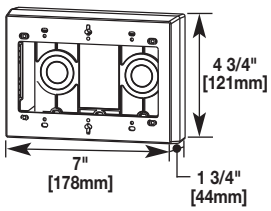
Entrance End fitting – Connects 1/2" and 3/4" trade size conduit or armored cable with PN03, PN05 and PN10 Series Raceway. Includes PN153R Reducer Adapter for use with PN03 and PN05 Series Raceway.

NOTE: Add -"WH" suffix for White finish, -"FW" for Fog White finish or -"V" for Ivory finish.

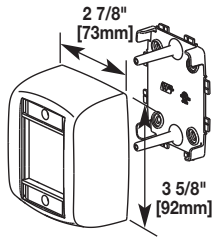
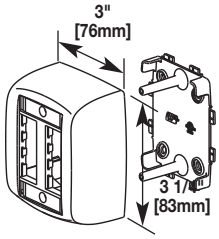
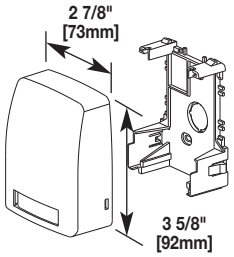
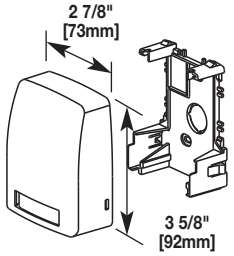
PN03, PN05, and PN10 Series Device Boxes

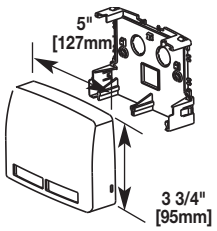
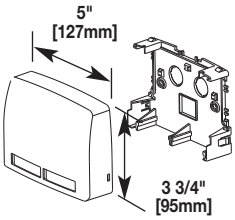
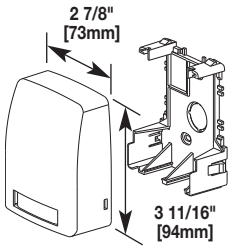
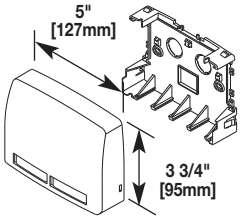
Catalog No./Item	Description/Specifications
PSB1 	**One-Gang Power Box** – Accepts all standard single-gang NEMA face-plates. Concentric twist-outs on all four sides for PN03, PN05, and PN10 Series Raceway.
PSB2 	**Two-Gang Device Box** – Accepts all standard two-gang NEMA faceplates. Concentric twist-outs on all four sides for PN03, PN05, and PN10 Series Raceway.

NOTE: Add -"WH" suffix for White finish, -"FW" for Fog White finish or -"V" for Ivory finish.

Catalog No./Item	Description/Specifications
PSB3 	**Three-Gang Device Box** – Accepts all standard three-gang NEMA faceplates. Concentric twist-outs on all four sides for PN03, PN05, and PN10 Series Raceway. Designed for use with Ortronics® Wi-Jack™ Wireless Access Point.

Communication Boxes

Catalog No./Item	Description/Specifications
PBB2S2 	**Bezel Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts two front-loaded outward facing devices including Ortronics® Series II devices
PBB4TJ 	**Bezel Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts four front-loaded outward facing devices including Ortronics® TracJack devices.
PDB1S2 	**Small Data Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts one front-loaded downward facing device including Ortronics® Series II devices.
PDB1CM 	**Small Data Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts one front-loaded downward facing device including Pass & Seymour® Activate Series inserts and Wiremold Open System communication modules.

Catalog No./Item	Description/Specifications
PDB2CM 	**Large Data Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts two front-loaded downward facing devices including Pass & Seymour® Activate Series inserts andWiremold Open System communication modules.
PDB2S2 	**Large Data Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts two front-loaded downward facing devices including Ortronics® Series II devices.
PDB2TJ 	**Small Data Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts two front-loaded downward facing devices including Ortronics® TracJack devices.
PDB4TJ 	**Large Data Box** – Surface mount box for use with Eclipse Series Raceway or standalone application. Accepts four front-loaded downward facing devices including Ortronics® TracJack devices.

NOTE: Add -"WH" suffix for White finish, -"FW" for Fog White finish or -"V" for Ivory finish.

Raceway Wire Fill Capacities for Communications

	CABLE/WIRE SIZE	O.D. Inches	O.D. [mm]	PN03L 20%*	PN03L 40%**	PN05L 20%*	PN05L 40%**	PN10L 20%*	PN10L 40%**
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3	0.190	[4.8]	1	3	3	6	6	13
	4-pair, 24 AWG Cat. 5e	0.210	[5.3]	1	2	2	5	5	11
	4-pair, 24 AWG Cat. 6	0.250	[6.3]	0	1	1	3	4	8
	4-pair, 24 AWG Cat. 6a	0.351	[9.0]	0	0	0	1	2	4
TELEPHONE	2-pair, 24 AWG	0.140	[3.6]	2	5	5	11	12	25
	3-pair, 24 AWG	0.150	[3.8]	2	4	4	9	11	22
	4-pair, 24 AWG	0.190	[4.8]	1	3	3	6	6	13
	25-pair, 24 AWG	0.410	[10.4]	0	0	0	1	1	3
COAXIAL	RG58/U	0.195	[5.0]	1	2	2	5	6	13
	RG59/U	0.242	[6.1]	0	1	1	3	4	8
	RG62/U	0.242	[6.1]	0	1	1	3	4	8
	RG6/U	0.270	[6.9]	0	1	1	3	3	6
TWINAXIAL	100 Ohm	0.330	[8.4]	0	1	1	2	2	4
SHIELDED TWISTED PAIR	TYPE 1	0.390	[9.9]	0	0	0	1	1	3
	TYPE 2	0.465	[11.8]	0	0	0	1	1	2
	TYPE 3	0.245	[6.2]	0	1	1	3	4	8
FIBER	Mini Zip Cord	0.079 x 0.157	[2 x 4]	3	7	7	14	15	31
	Zip Cord	0.118 x 0.236	[3 x 6]	1	3	3	6	7	14
	Round 4 Strand Fiber	0.187	[4.8]	1	3	3	6	7	14
	Round 6 Strand Fiber	0.256	[6.5]	0	1	1	3	3	7

** 20% cable fill is calculated to approximate reduction in cable capacity due to connectors mounted within raceway and fittings that may restrict cross sectional area.*
*** 40% cable fill is the maximum designed cable fill based on a proposed revision to TIA/EIA 569-A.*

Raceway Wire Fill Capacities for Power

WIRE SIZE THHN/THWN	O.D. Inches	O.D. [mm]	NUMBER OF CONDUCTORS PN03	PN05	PN10
14 AWG	0.111	[2.8]	8	16	22
12 AWG	0.130	[3.3]	7	14	20
10 AWG	0.164	[4.2]	0	0	19

NOTES

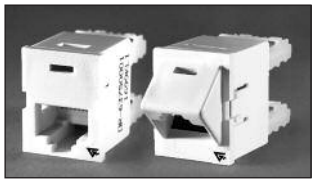
DATACOM CONNECTIVITY OPTIONS

Now you have a wide range of options for providing datacom connectivity into Wiremold/Legrand Pathways. They are:

- **Ortronics® TracJack® and Series II Modular Connectivity Solutions**
- **Pass & Seymour Activate™ Modular Inserts**
- **Open System Communication Modules**

Ortronics® Connectivity

TracJack® Individual Jack System



- Front-loading, snap-in design supports future moves adds and changes
- Inserts for voice, data, audio, and video
- Available Category 3, 5e, 6, USOC 6-position, and other media
- Flat or angled 45° exit configurations
- Choice of 13 colors and color matched to Wiremold Systems
- Universal T568A/B wiring format

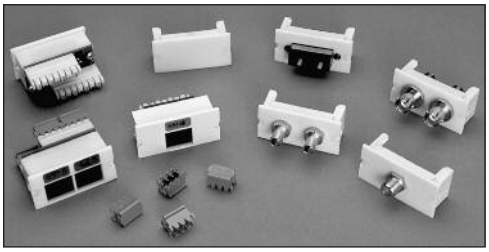
Series II Front-Loading, Module System

- Module design features easy snap-in front-loading design
- Linear 110 punch down format for easy termination
- Inserts for voice, data, audio, and video
- Available Category 3, 5e, 6, USOC 6-position, and other media
- Available in flat or angled 45° exit configurations
- Color matched to Wiremold Systems

For detailed product selection refer to the Ortronics Catalog or visit www.ortronics.com.

Pass & Seymour Legrand Network Wiring

Activate™ Series Front-Loading Inserts

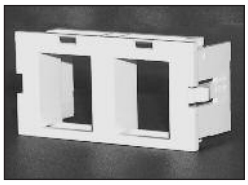


- Modular inserts for voice, data, audio and video applications
- Front-load, snap-in design
- Color and texture matched to Wiremold Systems
- Available Category 3, 5e, 6, as well as 6-position USOC
- Universal T568A/B wiring format

For detailed product selection refer to the Pass & Seymour Network Wiring Catalog or visit www.passandseymour.com.

Open Connectivity Solutions

Wiremold Open System Communications Modules



- Accommodate a wide range of manufacturers' communications outlets including keystone jacks, as well as proprietary solutions from Avaya (Systimax) and NORDX
- Modules insert into a wide range of Wiremold Systems
- Pre-punched faceplates accept common communication devices

NOTE: For more information on integrating connectivity into Wiremold Cable Management Systems contact the Wiremold Applications Engineering Team or your local Wiremold Sales Representative.

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