

Small Nonmetallic Raceway Systems

For Communications and Power Applications

The PN03, PN05, and PN10 Series is a family of single compartment raceways for communication or power applications. Ideal for use in classrooms, offices, and hotel applications, or anywhere a small, low profile raceway is needed. Eclipse PN03, PN05, and PN10 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 PN05A08 shown in a horizontal installation.

Features & Benefits

- **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.
- **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. PN05 and PN10 are available in both latching and two-piece configurations.
- **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.
- **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 easily installed by one person.
- **Built-in wire retainers.** Lay in wires easily without using wire clips. Makes installations quicker and saves both time and labor. Available on PN05A08, PN05A10, PN10A08 and PN10A10 Series.
- **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.
- **1" [25mm] fiber fittings.** Full capacity, aesthetically pleasing fittings provide 1" [25mm] bend radius.
- **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.
- **Ratings:** 600VAC, FT-4 Rated for Canada
- **Listed:** cUL us

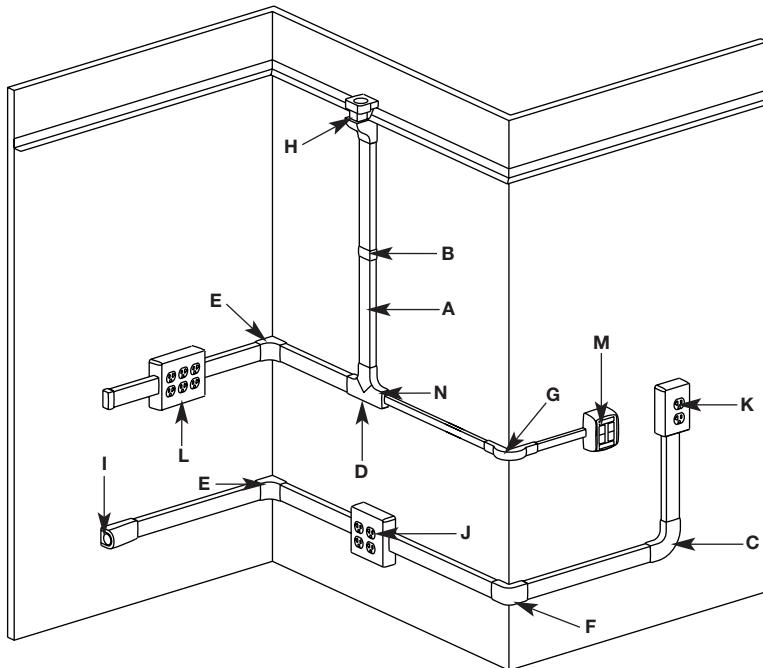


Eclipse PN05L08 shown in typical vertical installations.

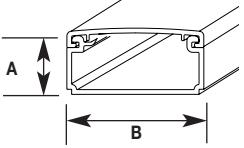


PN03, PN05, and PN10 System Layout

- A – PN03L08, PN03L10, PN05A08, PN05A10, PN05L08, PN05L10, PN10A08, PN10A10, 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



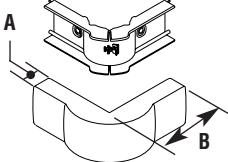
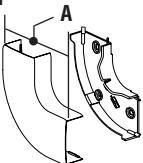
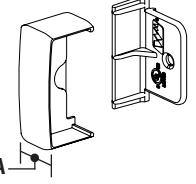
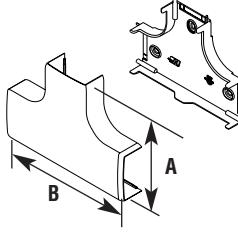
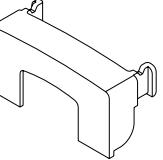
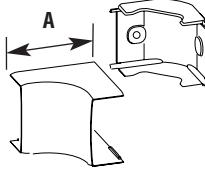
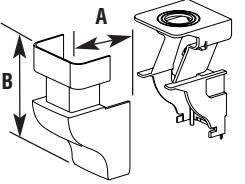
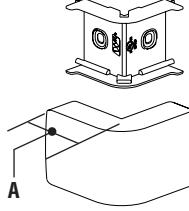
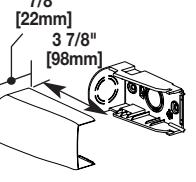
Raceway Profiles

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications																					
PN03L08* PN03L10** PN05L08* PN05L10** PN10L08* PN10L10**	One-Piece Raceway – Co-extruded hinged, one-piece raceway.	PN05A08* PN05A10** PN10A08* PN10A10**	Raceway Base & Cover – Two-piece raceway base and cover.																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Cat No.</th><th>A</th><th>B</th></tr> </thead> <tbody> <tr> <td>PN03L08</td><td>1/2" [12.7mm]</td><td>13/16" [20.6mm]</td></tr> <tr> <td>PN03L10</td><td>1/2" [12.7mm]</td><td>13/16" [20.6mm]</td></tr> <tr> <td>PN05L08</td><td>5/8" [15.9mm]</td><td>1 1/8" [29mm]</td></tr> <tr> <td>PN05L10</td><td>5/8" [15.9mm]</td><td>1 1/8" [29mm]</td></tr> <tr> <td>PN10L08</td><td>13/16" [20.6mm]</td><td>1 11/16" [43mm]</td></tr> <tr> <td>PN10L10</td><td>13/16" [20.6mm]</td><td>1 11/16" [43mm]</td></tr> </tbody> </table>			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]
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* 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	Catalog No./Item	Description/Specifications																				
PN03F06 PN05F06 PN10F06	Cover Clip – For covering joint of two pieces of PN03, PN05, or PN10 Series Raceway.	PN03F19 PN05F19 PN10F19	90° External Elbow – For right angle turns around external corners. 1" [25mm] bend radius.																				
	<table border="1" data-bbox="421 312 698 411"> <thead> <tr> <th>Cat No.</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PN03F06</td> <td>1" [25mm]</td> </tr> <tr> <td>PN05F06</td> <td>1" [25mm]</td> </tr> <tr> <td>PN10F06</td> <td>1" [25mm]</td> </tr> </tbody> </table>	Cat No.	A	PN03F06	1" [25mm]	PN05F06	1" [25mm]	PN10F06	1" [25mm]		<table border="1" data-bbox="1116 312 1514 411"> <thead> <tr> <th>Cat No.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>PN03F19</td> <td>15/16" [23.8mm]</td> <td>3 1/8" [79mm]</td> </tr> <tr> <td>PN05F19</td> <td>1 3/16" [30mm]</td> <td>3 1/8" [79mm]</td> </tr> <tr> <td>PN10F19</td> <td>1 3/16" [30mm]</td> <td>3 3/8" [116mm]</td> </tr> </tbody> </table>	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]
Cat No.	A																						
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PN05F06	1" [25mm]																						
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PN03F11 PN05F11 PN10F11	90° Flat Elbow – For right angle turns on same surface. 1" [25mm] bend radius.	PN03F20 PN05F20 PN10F20	Blank End Fitting – For closing open end of raceway.																				
	<table border="1" data-bbox="421 559 731 658"> <thead> <tr> <th>Cat No.</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PN03F11</td> <td>2 11/16" [68mm]</td> </tr> <tr> <td>PN05F11</td> <td>2 15/16" [75mm]</td> </tr> <tr> <td>PN10F11</td> <td>3 11/16" [94mm]</td> </tr> </tbody> </table>	Cat No.	A	PN03F11	2 11/16" [68mm]	PN05F11	2 15/16" [75mm]	PN10F11	3 11/16" [94mm]		<table border="1" data-bbox="1148 601 1426 701"> <thead> <tr> <th>Cat No.</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PN03F20</td> <td>11/16" [17.5mm]</td> </tr> <tr> <td>PN05F20</td> <td>11/16" [17.5mm]</td> </tr> <tr> <td>PN10F20</td> <td>11/16" [17.5mm]</td> </tr> </tbody> </table>	Cat No.	A	PN03F20	11/16" [17.5mm]	PN05F20	11/16" [17.5mm]	PN10F20	11/16" [17.5mm]				
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PN03F15 PN05F15 PN10F15	Tee – For branches at right angles on the same surface. 1" [25mm] bend radius.	PN153R	Reducer Adapter – For adapting PN03 or PN05 Raceway to a PN10 trunking through the PN10F15 Tee Fitting.																				
	<table border="1" data-bbox="398 827 806 929"> <thead> <tr> <th>Cat No.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>PN03F15</td> <td>2 11/16" [68mm]</td> <td>4 5/16" [110mm]</td> </tr> <tr> <td>PN05F15</td> <td>2 15/16" [75mm]</td> <td>4 3/4" [121mm]</td> </tr> <tr> <td>PN10F15</td> <td>3 11/16" [94mm]</td> <td>5 5/16" [135mm]</td> </tr> </tbody> </table>	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]										
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PN10F15	3 11/16" [94mm]	5 5/16" [135mm]																					
PN03F17 PN05F17 PN10F17	Internal Elbow – For right angle turns around internal corners. 1" [25mm] bend radius.	PN05F86 PN10F86	Drop Ceiling Connector – For dropping cables from ceiling into the raceway. Includes Reducer Adapter for use with PN03 Series Raceway.																				
	<table border="1" data-bbox="421 1180 714 1279"> <thead> <tr> <th>Cat No.</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PN03F17</td> <td>2 1/8" [54mm]</td> </tr> <tr> <td>PN05F17</td> <td>2 1/8" [54mm]</td> </tr> <tr> <td>PN10F17</td> <td>2 1/8" [54mm]</td> </tr> </tbody> </table>	Cat No.	A	PN03F17	2 1/8" [54mm]	PN05F17	2 1/8" [54mm]	PN10F17	2 1/8" [54mm]		<table border="1" data-bbox="1116 1262 1514 1362"> <thead> <tr> <th>Cat No.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>PN05F86</td> <td>1 5/16" [33mm]</td> <td>4 3/8" [111mm]</td> </tr> <tr> <td>PN10F86</td> <td>2 1/2" [64mm]</td> <td>4 3/8" [111mm]</td> </tr> </tbody> </table>	Cat No.	A	B	PN05F86	1 5/16" [33mm]	4 3/8" [111mm]	PN10F86	2 1/2" [64mm]	4 3/8" [111mm]			
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PN10F86	2 1/2" [64mm]	4 3/8" [111mm]																					
PN03F18 PN05F18 PN10F18	External Elbow – For right angle turns around external corners.	PN10F21	Entrance End fitting – For feeding raceway with 1/2" and 3/4" trade size conduit or armored cable. Includes Reducer Adapter for use with PN03 & PN05 Series Raceway.																				
	<table border="1" data-bbox="421 1531 731 1632"> <thead> <tr> <th>Cat No.</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PN03F18</td> <td>1 5/8" [41mm]</td> </tr> <tr> <td>PN05F18</td> <td>1 5/8" [41mm]</td> </tr> <tr> <td>PN10F18</td> <td>1 5/8" [41mm]</td> </tr> </tbody> </table>	Cat No.	A	PN03F18	1 5/8" [41mm]	PN05F18	1 5/8" [41mm]	PN10F18	1 5/8" [41mm]														
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Raceway Wire Fill Capacities for Communications

	CABLE/WIRE SIZE	O.D. Inches	[mm]	PN03L 20%* 40%**		PN05A/PN05L 20%* 40%**		PN10A/PN10L 20%* 40%**	
				20%*	40%**	20%*	40%**	20%*	40%**
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3 UTP	0.190	[4.8]	1	3	3	6	6	13
	4-pair, 24 AWG Cat. 5e UTP	0.210	[5.3]	1	2	2	5	5	11
	4-pair, 24 AWG Cat. 6 UTP	0.250	[6.3]	0	1	1	3	4	8
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	[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