

WIREMOLD®

AL4320 Series Aluminum Raceway

Prewired Two-Piece, Dual Channel Raceway

Isoduct™ AL4320 Series Raceway is a two-channel, dual-cover, highly aesthetic, raceway solution designed to provide access to communication cabling and electrical wiring systems. Manufactured in our factory, this raceway can be electrically prewired and is available with either connectivity activation inserts mounted in the raceway, or with pre-punched activation openings. Finished prewired raceway is cut to job site lengths, labeled to meet specified job site requirements, and then shipped ready to install.

Prewired AL4320 Series Raceway is designed to reduced on-site installation time and costs and to meet the installation requirements of UTP, fiber optic and electrical wiring.



The two-channel, dual-cover AL4320 Series Aluminum Raceway accommodates low-voltage and power devices in the same raceway.

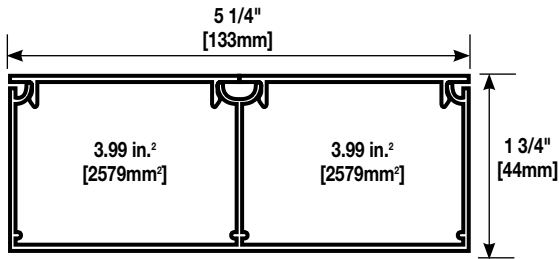
FEATURES & BENEFITS

- **Two-Channel, Dual-Cover, 1 3/4" [44mm] deep aluminum raceway.** Accommodates high density communication cabling for networks and phone systems.
- **Snap fit cover.** Provides maximum flexibility for adding or relocating circuits, data openings or electrical devices. Side removal slots limit visibility of any accidental marring during cover removal.
- **Durable, architectural clear anodized finish.** Wipes clean and resists corrosion. Custom colors available upon request. Consult factory for more information.
- **Accommodates standard electrical wiring devices.** Accommodates most installations including single outlets, duplex outlets, NEMA-Locking outlets, GFCI outlets, and Pass & Seymour surge protected outlets.
- **Electrical device identification with self-adhesive polyester labels or optional engraving.** No guesswork or time consuming tracing of circuits. Speeds circuit additions and renovations. (See Device and Raceway labeling Options)
- **Mitered standard fittings.** Provides a complete installation.
- **Increased productivity for the contractor.** Jobs can be packaged by area, floor, or building and shipped per job site requirements.
- **Datacom connectivity options.** Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, data, audio, and video applications at the point of use.
- **UL5 and ADA Compliant.** Raceway and fittings meet UL5 specifications and can be installed in conformance with ADA requirements.
- **UL Listed commercial outlet centers.** File E317375 Multioutlet assemblies rated to 20A maximum can be provided with listed cord and plug assemblies. These assemblies are optimal for mounting to semi-permanent structures such as shelving and rack displays found in many lab applications.
- **UL and cUL Listed component raceways.** File E4376 Guide RJBT, Fittings: File E41751 Guide RJPR. Meets Article 386 of NEC and meets Section 12-600 of CEC.
- **UL and cUL Listed multioutlet assemblies.** File E15191 Guide PVGT, Fittings: File E41751 Guide RJPR. Meets Article 380 of NEC and meets Section 12-3032 of CEC.

Prewired Raceway is prewired and packed to the job specifications at the factory before shipping to the jobsite.



AL4320 Series Prewired Aluminum Raceway Specifications



Material: 6063 T6 Aluminum Alloy
Wall Thickness: 0.078" [1.99mm]
Anodized Finish Thickness: 0.004" [0.10mm]

AL4320 Series Prewired Aluminum Raceway Fittings

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
AL4310B 	Blank End Cap – Closes off open ends of AL4320 Series Raceway.	AL4312B 	45° External Mitered Elbow with Coupling – Makes 45° external turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings.
AL4310B2 	Entrance End Cap with two 1 1/16" Provisions – End Cap with two connections for 3/4" conduit.	AL4315 	Flat Tee with Coupling – Makes branch connections of two runs of AL4320 Series Raceway. Includes six (6) AL4301 Couplings.
AL4301 	Slide Coupling – Connects adjoining sections of AL4320 Series Raceway base.	AL4317 	Internal Mitered Elbow with Coupling – Makes 90° internal turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings.
AL4311 	90° Flat Mitered Elbow with Coupling – Makes 90° turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings.	AL4318 	External Mitered Elbow with Coupling – Makes 90° external turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings.
AL4312A 	45° Internal Mitered Elbow with Coupling – Makes 45° internal turns in runs of AL4320 Series Raceway. Includes four (4) AL4301 Couplings.		

NOTE: Custom fittings are also available - contact factory for more information.

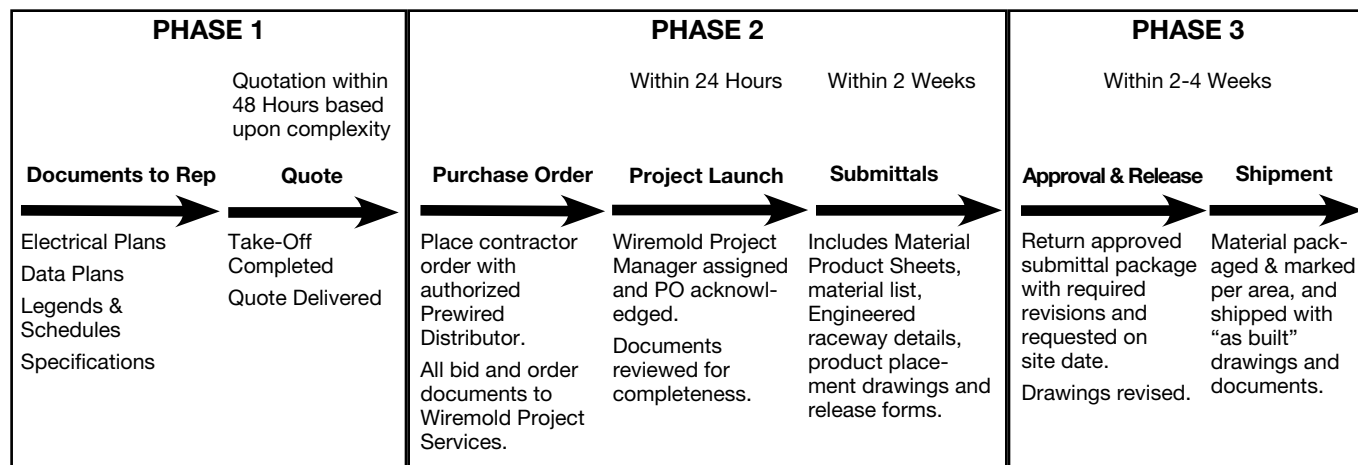
AL4320 Series Prewired Aluminum Raceway Features

FEATURES	STANDARD	OPTIONS
Communication Devices	Ortronics & Activate Connectivity System Devices	Other manufacturers
Electrical Devices	Pass & Seymour	Other manufacturers
Cover Length	12" [305mm] or 18" [457mm]	24" [610mm], 36" [914mm], custom or continuous
Body Length	Longest = 10' [3.05m], shortest = 1' [305mm]	
Installation	Surface mounted	Flush mounted (recessed)
Finish	Architectural Class II Clear Anodized	Custom colors available, consult factory.*
Fittings	Mitered	Butt joints or custom
Wire Type	THHN Stranded	Options per specification
Wiring Splices	Insulation displacement connectors	Continuous wiring or twist-on wire connector
Grounding Conductors	Wire gauge per National Electrical	Oversized and/or separate grounding wires Code (NEC) and shared grounding wires
Device Identification	Clear self-adhesive polyester label with black letters	Engraved covers, self-adhesive engraved nameplate, colored self-adhesive polyester labels with black letters
Neutrals	Shared neutral	Oversized and/or separate neutral wires
Pigtails	12" [305mm] feeds and receptacle leads	Per specification
Conduit Feeds	Raceway drilled at job site with hole saw	Entrance end cap
Device Mounting	Mounted to cover with 2 counter-sunk #6-32 screws	Device mounting brackets
Record Drawings	3 sets and 2 copies of marked-up blueprints	Per job requirements
Submittal Services	Detailed Submittal	Express Submittal or Submittal Free

* Paint chip required for custom colors.

AL4320 Series Raceway Ordering Process for Prewired Applications

- Detailed Submittal** The detailed submittal shows exactly how each raceway run will be built (lengths, number and type of receptacles, wiring schematics, circuiting information, etc.). The contractor and/or distributor must review and correct any information not clearly indicated on the drawings or specs, approve and return before production can be scheduled.
- Submittal Free** The Prewired Express Building Plan Checklist is filled out by the contractor or distributor and sent along with plans, casework, and specs. No submittal is required and the project is scheduled for production upon receipt of all information.



Prewired Raceway gets installers off the job in 1/3 less time than conventional raceway installations.



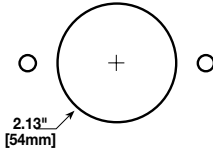
Wiremold Prewired Raceway is available in a wide range of capacity and configuration options.

AL4320 Device Openings

Single Receptacle (30A & 50A Straight Blade)

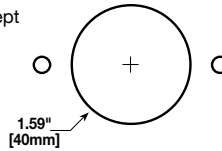
5-30R 7-30R
5-50R 7-50R
6-30R 10-30R
6-50R 10-50R

Adapter box
required for
all receptacles



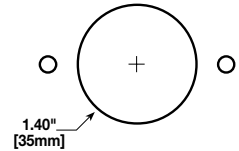
Single Receptacle (NEMA Locking Devices)

Accommodates All NEMA
Locking Devices except
L5-15R, L6-15R,
and L7-15R



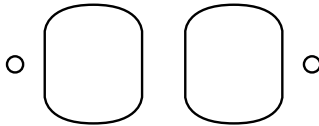
Single Receptacle (15A & 20A Straight Blade & Locking)

5-15R 15-20R
5-20R 18-20R
6-15R L5-15R
6-20R L6-15R
10-20R L7-15R
14-20R



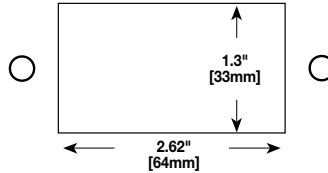
Duplex

5-15R L5-15R
5-20R L6-15R
6-15R L7-15R
6-20R

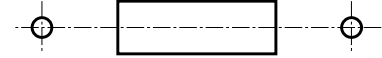


Rectangular Openings

Decorator Style
Rectangular GFCIs
Rectangular Surge
Protection Receptacles



Single-Gang Switch



AL4320 Device Compatibility

NEMA Locking Compatibility

All of the following NEMA locking devices will fit.

L5-15R	L6-15R	L7-15R	L8-20R	L10-20R	L12-20R	L14-20R	L16-20R	L18-20R	L20-20R	L22-20R
L5-20R	L6-20R	L7-20R	L8-30R	L10-30R	L12-30R	L14-30R	L16-30R	L18-30R	L20-30R	L22-30R
L5-30R	L6-30R	L7-30R	L9-20R	L11-20R	L13-20R	L15-20R	L17-20R	L19-20R	L21-20R	L23-20R
			L9-30R	L11-30R	L13-30R	L15-30R	L17-30R	L19-30R	L21-30R	L23-30R

NEMA Straight Blade Compatibility

5-15R	5-20R	5-30R	5-50R	6-20R	6-30R	6-50R	7-30R	7-50R	10-20R	10-30R	10-50R	14-20R	14-30R
Y	Y	1	1	Y	1	1	1	1	Y	1	1	Y	N
14-50R	14-60R	15-20R	15-30R	15-50R	15-60R	18-20R	18-60R	GFCI	SURGE				
N	N	Y	N	N	N	Y	N	Y	Y				

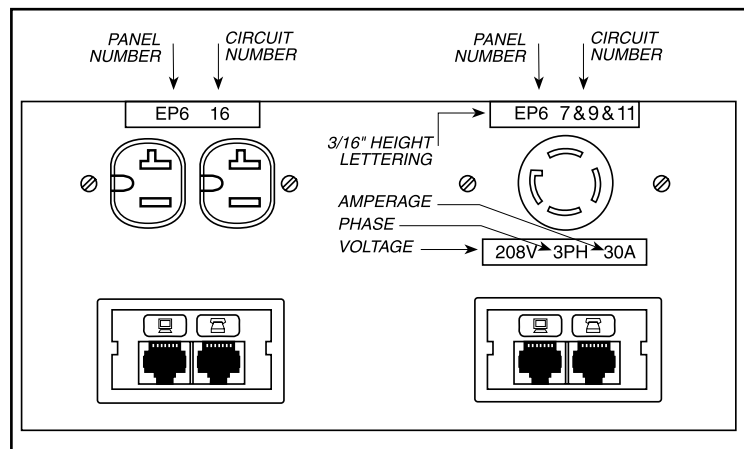
Y= will fit

N= will not fit

1. Requires adapter box.

Device and Raceway Labeling Detail for Prewired Applications

- Device labeling is available in the following materials:
 - Clear self-adhesive polyester labels
 - Other color self-adhesive polyester labels.
 - Engraving of covers with black lettering.
 - Engraved phenolic nameplates with adhesive backing.
- The back of the raceway is labeled with the raceway number and the room or area number(s).
- Data and power requirements can be switched with data on top and power on bottom.



AL4320 Wire Fill Capacity Charts

AL4320 Raceway Wire Fill Capacities for Data/Communication

CABLE/WIRE TYPE		O.D.		AL3000	AL4000	AL4320**	AL7320		ALDS4000
		Inches	[mm]	40%	40%	40%	NO BARRIER 40%	SINGLE 40%	40%
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat. 3	0.190	[4.8]	53	48	53	81	43	68
	4-pair, 24 AWG Cat. 5e	0.210	[5.3]	43	39	43	66	35	56
	4-pair, 24 AWG Cat. 6	0.250	[6.4]	31	28	31	47	25	40
	4-pair, 24 AWG Cat. 6a*	0.354	[9.0]	15	14	15	23	12	20
	25-pair, 24 AWG	0.360	[9.1]	15	13	15	23	12	19
COAXIAL	RG6/U	0.270	[6.9]	26	24	26	40	21	34
FIBER OPTIC	ZipCord	0.118 x 0.236	[3 x 6]	54	48	54	83	44	70
	Round 4 Strand Fiber	0.187	[4.7]	55	49	55	84	44	71
	Round 6 Strand Fiber	0.256	[6.5]	29	26	29	45	24	38

* Category 6 augmented (6a) cable for 10 gigabit ethernet – max allowed cable diameter per addenda No. 11 ANSI TIA/EIA 568-B.2.

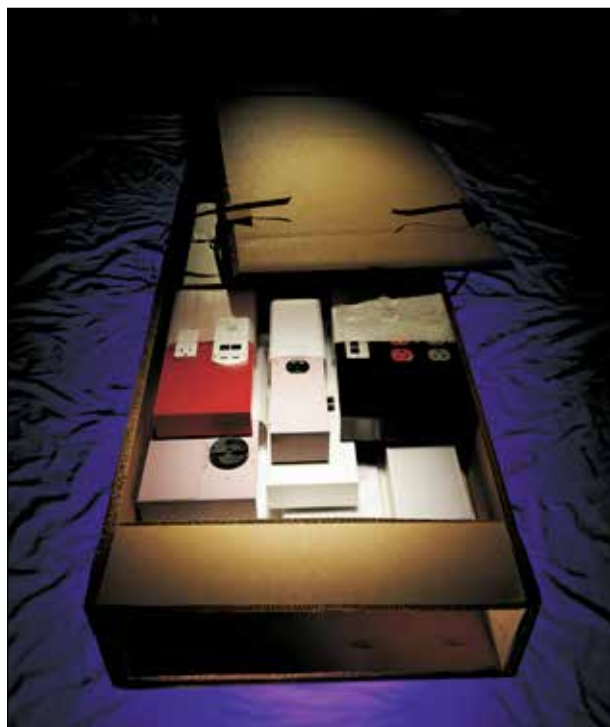
** Each compartment.

AL4320 Series Raceway Wire Fill Capacities for Power (40% Fill Factor)

WIRE SIZE THHN (STRANDED)		AL3000	AL4000*	AL4320*	AL7450		ALDS4000*
					Single	Dual*	
POWER WIRING WITHOUT DEVICES	6 AWG	30	27	30	31	27	–
	8 AWG	41	37	42	42	37	53
	10 AWG	72	64	73	74	64	92
	12 AWG	114	102	115	117	102	146
POWER WIRING WITH GFCI DEVICES (2.04 sq. in.)	6 AWG	9	8	9	9	8	–
	8 AWG	13	11	13	13	11	27
	10 AWG	23	20	23	23	20	47
	12 AWG	37	31	37	37	31	75

NOTE: Wire fill rate for power wiring with GFCI devices represents actual capacity when prewired, which may be different than industry standard 40% fill rate calculation.

* Each compartment.



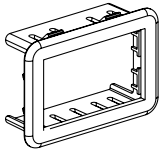
Wiremold Prewired Raceway reduces installation time, gets installers off the job faster, and eliminates the need for field cutting.

Contact your local Wiremold Representative or the factory for more information on prewired raceway and assistance in planning your next prewired installation. Our Prewired Raceway Team is ready to help.

Communication Adapters

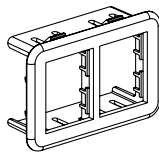
Ortronics®

ABS2



Accepts One
Series II Module

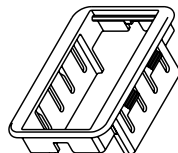
AB2TJ



Accepts Two
TracJack Modules

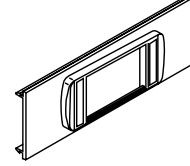
Pass & Seymour®/Ortronics®

CM-2AB



Accepts One
Activate 2A Module

Low Profile Adapter (LPB)

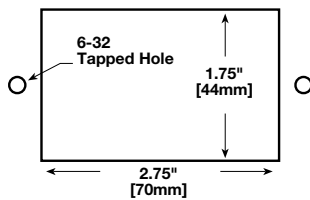


LPB – Accepts 3 Pass & Seymour Activate Inserts
LPB3S2 – Accepts 3 Ortronics Series II Inserts

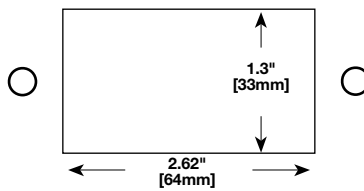
NOTE: Custom openings are also available – consult factory for more information.

AL4320 Communication Openings

Wallplate Openings

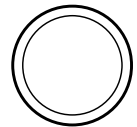


Rectangular Openings

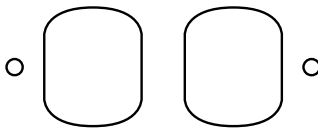


Grommet Openings

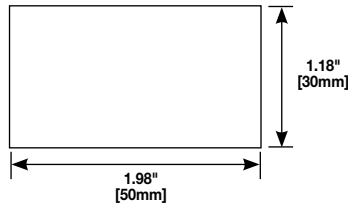
1/4" [6.4mm] Inner Diameter
1/2" [12.7mm] Inner Diameter
3/4" [19.1mm] Inner Diameter
Standard
1" [25mm] Inner Diameter



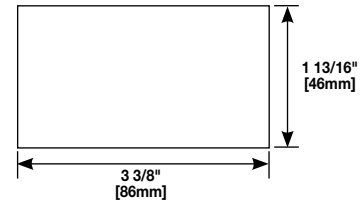
Duplex for Data



AB Adapter Openings



Low or High Profile Adapter Openings



NOTE: Custom openings are also available - consult factory for more information.

NOTES

NOTES



Electrical Wiring Systems

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West Hartford, CT 06110
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www.legrand.us

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Phone: 905.738.9195
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