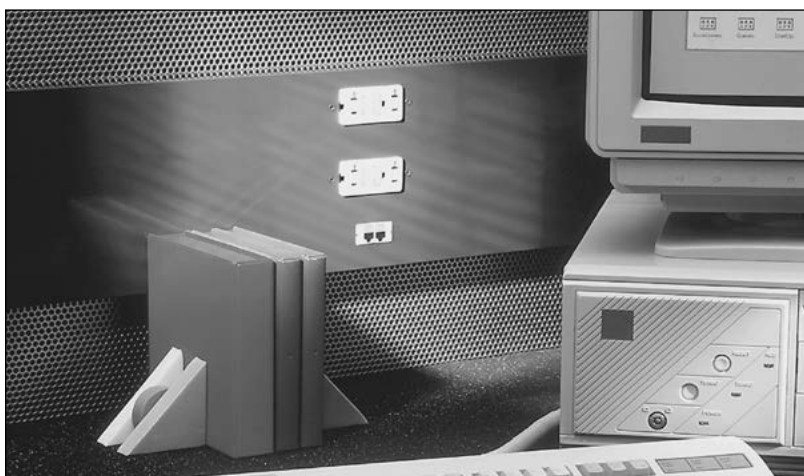


Three-Channel, Dual-Cover, Prewired Aluminum Raceway System

Isoduct™ AL7450 Series Raceway is a cost-effective, highly aesthetic solution for providing access to communication cabling and electrical wiring systems. The three-channel, dual-cover raceway is manufactured in our factory, cut to the specified job site lengths, electrically prewired, and comes with either the Activate™ Workstation Connectivity Activation Inserts mounted in the raceway or with pre-punched activation openings. Inserts are available to interface with UTP, STP, fiber optic, coax, and other cabling types.

AL7450 Series Raceway meets the installation requirements for most electrical wiring.



An AL7450 Series Raceway installation in a computer lab is both functional and aesthetically pleasing.

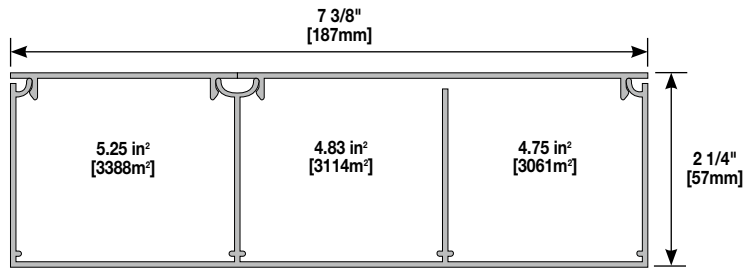
FEATURES & BENEFITS

- **Three-channel, two-cover, 2 1/4" [57mm] deep aluminum.** 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.
- **Datcom 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.

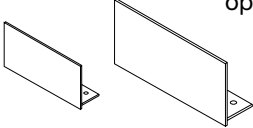
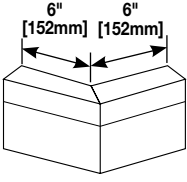
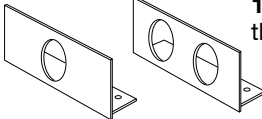
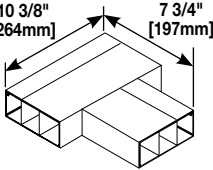
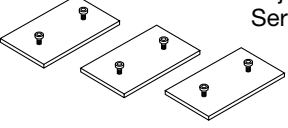
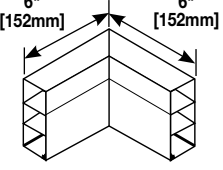
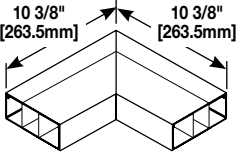
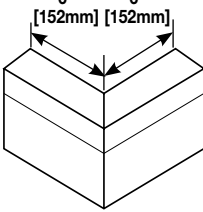
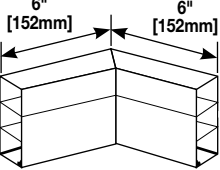


AL7450 Series Raceway Specifications



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

AL7450 Series Raceway Fittings

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
AL7410B	Blank End Cap – Closes off open end of raceway. 	AL7412B	45° External Mitered Elbow with Coupling – Makes 45° external turns in runs of AL7450 Series Raceway. Includes six (6) AL7401 Couplings. 
AL7410B3	Entrance End Cap with two 1 1/16" Provisions – End Cap with three connections for 3/4" conduit. 	AL7415	Flat Tee with Coupling – Makes branch connections of two runs of AL7450 Series Raceway. Includes nine (9) AL7401 Couplings. 
AL7401	Slide Coupling – Connects adjoining sections of AL7450 Series Raceway base. 	AL7417	Internal Mitered Elbow with Coupling – Makes 90° internal turns in runs of AL7450 Series Raceway. Includes six (6) AL7401 Couplings. 
AL7411	90° Flat Mitered Elbow with Coupling – Makes 90° turns in runs of AL7450 Series Raceway. Includes six (6) AL7401 Couplings. 	AL7418	External Mitered Elbow with Coupling – Makes 90° external turns in runs of AL7450 Series Raceway. Includes six (6) AL7401 Couplings. 
AL7412A	45° Internal Mitered Elbow with Coupling – Makes 45° internal turns in runs of AL7450 Series Raceway. Includes six (6) AL7401 Couplings. 		

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

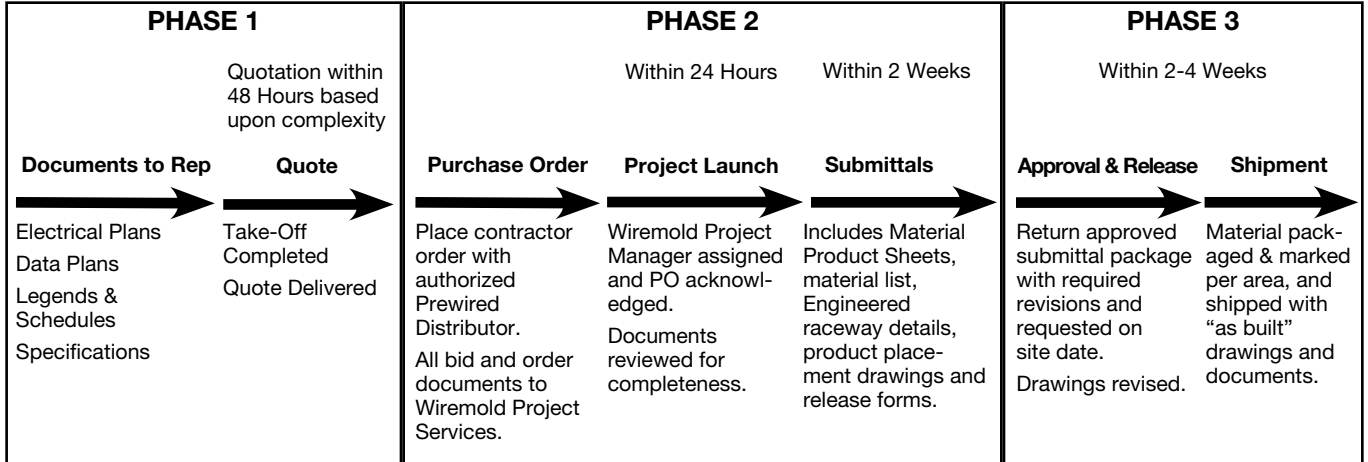
AL7450 Series Raceway Features

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.

AL745 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.



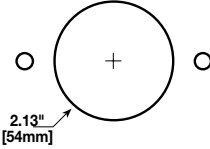
Wiremold Prewired Raceway is available in a wide range of capacity and configuration options.

AL7450 Device Openings

Single Receptacle (30A & 50A Straight Blade)

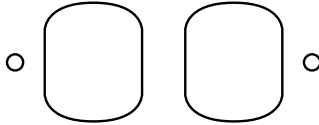
5-30R 7-30R
5-50R 7-50R
6-30R 10-30R
6-50R 10-50R

Adapter box
required for
all receptacles



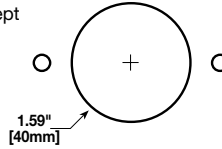
Duplex

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



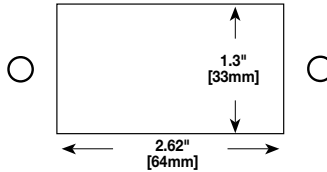
Single Receptacle (NEMA Locking Devices)

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



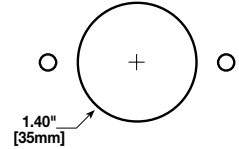
Rectangular Openings

Decorator Style
Rectangular GFCIs
Rectangular Surge
Protection Receptacles

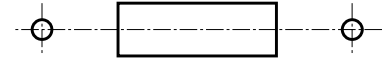


Single Receptacle (15A & 20A Straight Blade & Locking)

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



Single-Gang Switch



AL7450 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	1, 2
14-50R	14-60R	15-20R	15-30R	15-50R	15-60R	18-20R	18-60R	GFCI	SURGE				
1, 2	1, 2	Y	1, 2	1, 2	2	Y	1, 2	Y	Y				

Y= will fit

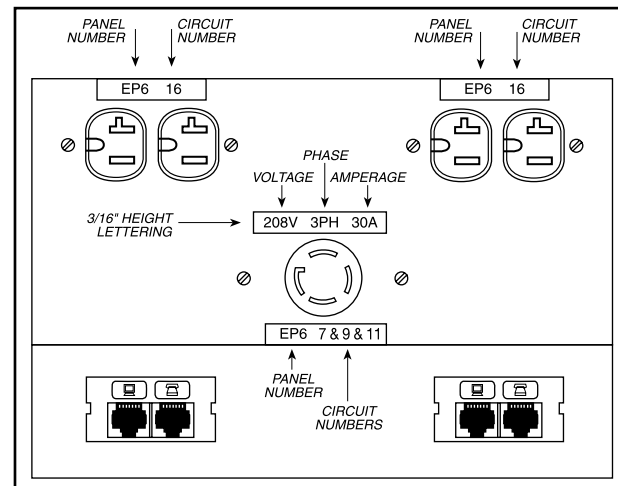
N= will not fit

1. Requires adapter box.

2. Remove barrier. Barrier is factory removed throughout entire length of raceway and cannot be reinstalled.

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.



AL7450 Wire Fill Capacity Charts

AL7450 Raceway Wire Fill Capacities for Data/Communication

CABLE/WIRE TYPE		O.D.		AL4400	AL4520**	ALA4750	ALA3800	ALA4800**	AL7450	
		Inches	[mm]	40%	40%	40%	40%	40%	TOP 40%	BOTTOM 40%
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat. 3	0.190	[4.8]	66	84	69	86	86	71	66
	4-pair, 24 AWG Cat. 5e	0.210	[5.3]	55	69	57	70	70	58	55
	4-pair, 24 AWG Cat. 6	0.250	[6.4]	38	48	40	50	50	41	38
	4-pair, 24 AWG Cat. 6a*	0.354	[9.0]	19	24	20	25	25	20	19
	25-pair, 24 AWG	0.360	[9.1]	19	23	19	24	24	20	19
COAXIAL	RG6/U	0.270	[6.9]	33	41	34	43	43	35	33
FIBER OPTIC	ZipCord	0.118 x 0.236	[3 x 6]	68	85	70	88	88	72	68
	Round 4 Strand Fiber	0.187	[4.7]	69	87	71	89	89	73	69
	Round 6 Strand Fiber	0.256	[6.5]	37	46	38	47	47	39	37

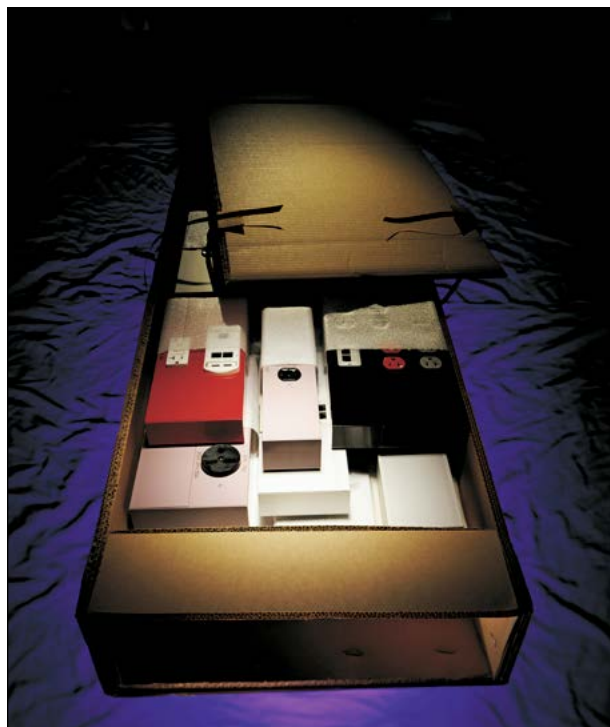
* Category 6 augmented (6a) cable for 10 gigabit ethernet – max allowed cable diameter per addenda No. 11 ANSI TIA/EIA 568-B.2.

** Each compartment.

AL7450 Raceway Wire Fill Capacities for Power (40% Fill Factor)

WIRE SIZE THHN (STRANDED)		AL7450						
		ALA3800	AL4400*	AL4520*	AL4750	Single	Dual*	ALA4800*
POWER WIRING WITHOUT DEVICES	8 AWG	41	50	54	35	53	49	41
	10 AWG	56	87	110	61	108	101	56
	12 AWG	98	139	172	97	170	159	98
POWER WIRING WITH GFCI DEVICES (2.04 sq. in.)	8 AWG	30	28	32	13	31	27	30
	10 AWG	42	49	65	22	64	57	42
	12 AWG	73	77	102	35	100	89	73

* Each compartment



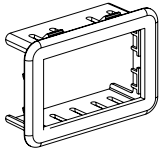
Wiremold Prewired Raceway reduces installation time, gets installers off the job faster, and eliminates the need for field cutting.

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

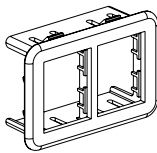
Ortronics

ABS2



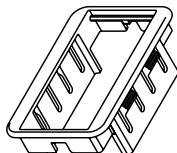
Accepts One
Series II Module

AB2TJ



Accepts Two
TracJack Modules

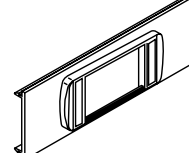
CM-2AB



Accepts One
Activate 2A Module

Pass & Seymour/Ortronics

Low Profile Adapter (LPB)

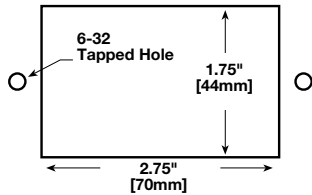


LPB – Accepts 3 Pass & Seymour Activate Inserts
LPB3S2 – Accepts 3 Ortronics Series II Inserts

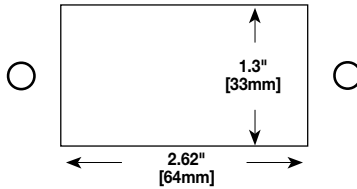
NOTE: Custom openings are also available – consult factory for more information.

AL7450 Communication Openings

Wallplate Openings

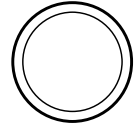


Rectangular Openings



Grommet Openings

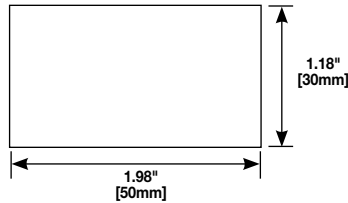
1/4" [6.4mm] Inner Diameter
1/2" [12.7mm] Inner Diameter
3/4" [19.1mm] Inner Diameter
Standard
1" [25mm] Inner Diameter



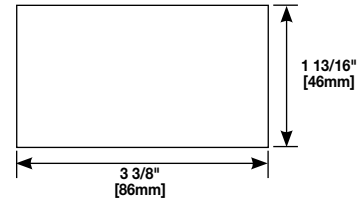
Duplex for Data



AB Adapter Openings



Low or High Profile Adapter Openings



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

NOTES



Electrical Wiring Systems

60 Woodlawn Street
West Hartford, CT 06110
Phone: 1.877.BY.LEGRAND (295-3472)
www.legrand.us

Canada:
Phone: 905.738.9195
www.legrand.ca

