

WIREMOLD®

AL4520 Series Isoduct™ Aluminum Raceway

Prewired Two-Piece Aluminum Raceway With Connectivity Capacity

Isoduct™ AL4520 Series Raceway is a cost-effective, highly aesthetic solution that provides access to your communication cabling and electrical wiring systems. The two-channel, dual-cover raceway is manufactured in our factory, cut to the specified job site lengths, electrically prewired, and is available with 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.



AL4520 Series Aluminum Raceway.

FEATURES & BENEFITS

- Two-Channel, Dual-Cover, 2 1/4" [58mm] 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.

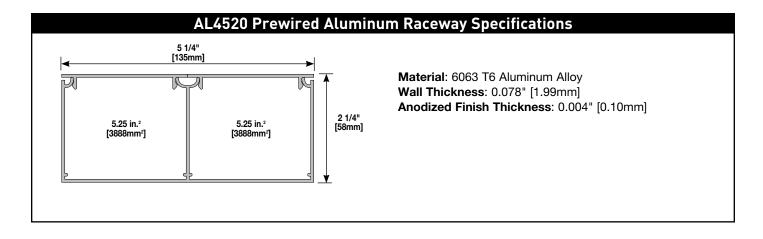
 Accommodates most installations including single outlets, duplex outlets, NEMA-Locking outlets, GFCI outlets, and Pass & Seymour surge protected outlets.
- Electrical device identification with self-adhesive polyester labels or optional engraving. No guesswork or time consuming tracing of circuits. Speeds 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.

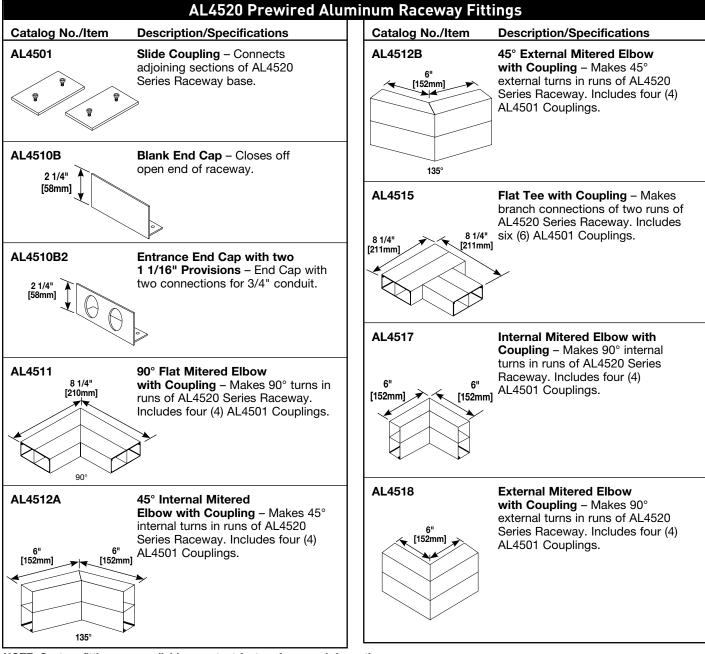
- Datacom connectivity options. Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, data, audio, and video applications at the point of use.
- UL5 and ADA Compliant. Raceway and fittings meet UL5 specifications 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 4376 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.







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

AL4520 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.

AL4520 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

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.

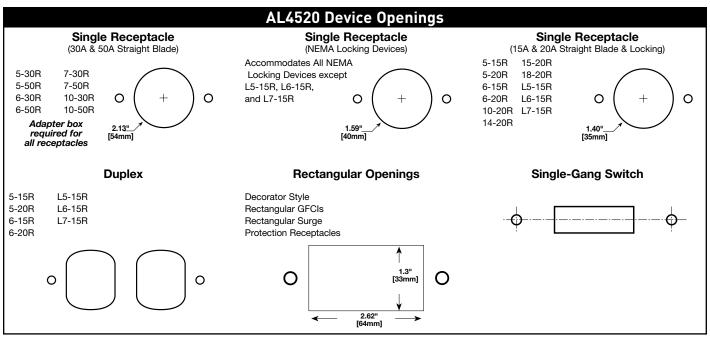
PHASE 1			PHASE 2	PHASE 3		
	Quotation within 48 Hours based upon complexity		Within 24 Hours	Within 2 Weeks	Within 2-4	Weeks
Documents to Rep	Quote	Purchase Order	Project Launch	Submittals	Approval & Release	Shipment
Electrical Plans Data Plans Legends & Schedules Specifications	Take-Off Completed Quote Delivered	Place contractor order with authorized Prewired Distributor. All bid and order documents to Wiremold Project Services.	Wiremold Project Manager assigned and PO acknowl- edged. Documents reviewed for completeness.	Includes Material Product Sheets, material list, Engineered raceway details, product place- ment drawings and release forms.	Return approved submittal package with required revisions and requested on site date. Drawings revised.	Material pack- aged & marked per area, and shipped with "as built" drawings and documents.



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



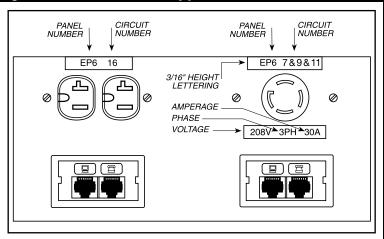
Wiremold Prewired Raceway is available in a wide range of capacity and configuration options.



NEMA L	ocking C	ompatibi	ility										
All of the	following	NEMA loc	king devi	ces will fit	i.								
L5-15R	L6-15R	L7-15	R L	8-20R	L10-20R	L12-	20R	L14-20R	L16-20F	R L18	8-20R	L20-20R	L22-20R
L5-20R	L6-20R	L7-20	R L	8-30R	L10-30R	L12-	30R	L14-30R	L16-30F	R L18	8-30R	L20-30R	L22-30R
L5-30R	L6-30R	L7-30	R L	9-20R	L11-20R	L13-	20R	L15-20R	L17-20F	R L19	9-20R	L21-20R	L23-20R
			L	9-30R	L11-30R	L13-	30R	L15-30R	L17-30F	R L19	9-30R	L21-30R	L23-30R
NEMA S	Straight B	lade Cor	mpatibilit	:у									
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	Υ	1	1	Υ	1	1	1	1	Υ	1	1	Υ	N
14-50R	14-60R	15-20R	15-30R	15-50R	15-60R	18-20R	18-60R	GFCI	SURGE				
N	N	Υ	N	N	N	Y	N	Y	Υ				

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.



AL4520 Wire Fill Capacity Charts

	AL4520 Raceway Wire Fill Capacities for Data/Communication										
CABLE/WIRE TYPE		O.E Inches). [mm]	AL4400 40%	AL4520** 40%	ALA4750 40%	ALA3800 40%	ALA4800** 40%	AL74 TOP 40%	450 BOTTOM 40%	
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 0.360	[4.8] [5.3] [6.4] [9.0] [9.1]	66 55 38 19	84 69 48 24 23	69 57 40 20 19	86 70 50 25 24	86 70 50 25 24	71 58 41 20 20	66 55 38 19 19	
COAXIAL	RG6/U	0.270	[6.9]	33	41	34	43	43	35	33	
FIBER OPTIC	ZipCord Round 4 Strand Fiber Round 6 Strand Fiber	0.118 x 0.236 0.187 0.256	[3 x 6] [4.7] [6.5]	68 69 37	85 87 46	70 71 38	88 89 47	88 89 47	72 73 39	68 69 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.

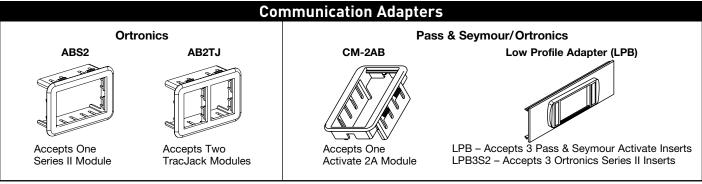
AL4520 Raceway Wire Fill Capacities for Power (40% Fill Factor)										
WIRE SIZE THHN (STRANDED)		ALA3800	AL4400*	AL4520*	AL4750	AL7450 Single Dual*		AL4800*		
POWER WIRING WITHOUT DEVICES	8 AWG 10 AWG 12 AWG	41 56 98	50 87 139	54 110 172	35 61 97	53 108 170	49 101 159	41 56 98		
POWER WIRING WITH GFCI DEVICES	8 AWG 10 AWG 12 AWG	30 42 73	28 49 77	32 65 102	13 22 35	31 64 100	27 57 89	30 42 73		

^{*} Each compartment

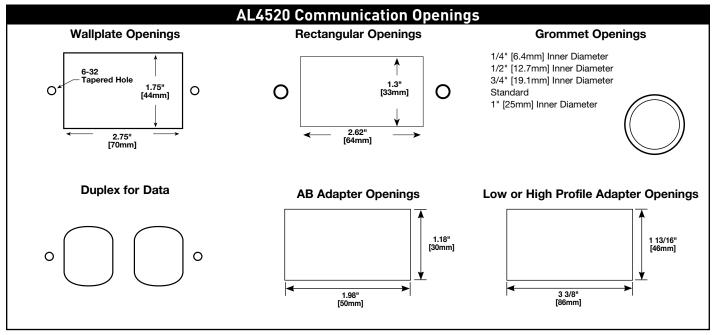


Wiremold Prewired Raceway reduces installation time, gets installers off the job faster, and eliminates the need for field cutting.

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.



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



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Notes

NOTES



Electrical Wiring Systems

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

570 Applewood Crescent Vaughan, Ontario L4K 4B4 Phone:905.738.9195 www.legrand.ca

