WIREMOLD®

ALA3800 Series Aluminum Raceway

The low profile design of ALA3800 Series Raceway accommodates power or communication services.

Aluminum Single Channel Raceway

Available Factory Prewired.

Isoduct™ ALA3800 Series Aluminum Raceway System meets the demands of commercial spaces, providing a handsome and effective method of directing power or communications services where required. The low-profile surface mounted raceway is easy to install and because of its two-piece design, wiring is always accessible and changes are easily accomplished.

Features & Benefits

- **Single-Channel, Single-Cover, 2 1/4" (57mm) 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. Shares cover plates with Wiremold ALA4800 Series Raceway.
- **Cable bend radius control inserts.** Provides a 2" (51mm) bend radius for Fiber Optic/Cat 5 installations.
- **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.

Vertical Markets

- **Commercial**
- **Education**
- **Government**
- **Healthcare**
- **Retail**

PEP ecoPASSPORT®

Download this product's PEP ecopasport® environmental product declaration at www.legrand.us/resources-and-downloads. This declaration conforms with ISO 14025 and 14040 and is in alignment with EN 15804.

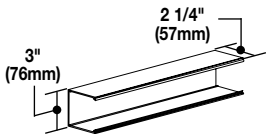
Compliance

c UL us

cULus Listed Raceway File E4376, Guide RJBT, **Fittings** File E41751, Guide RJPR
Raceway & Fittings – Meets Article 386 of NEC and Section 12-3032 of CEC.
Multioutlet Assemblies – File E15191, Guide PVGT. Meets Article 380 of NEC and Section 12-3032 of CEC.

ALA3800 Series Raceway Specifications

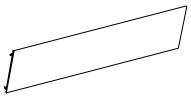
ALA3800B-10



Base – Satin Anodized finish. Nominal wall thickness of 0.078" (1.99mm). Packed four 10' (3.00m) lengths per carton.

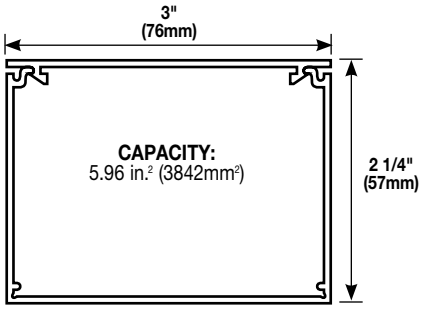
Country of Origin: Mexico

ALAC-5



Cover – Satin Anodized finish. Nominal wall thickness of 0.078" (1.99mm). Packed eight 5' (1.50m) lengths per carton.

Country of Origin: Mexico



ALA3800 Series Raceway Wire Fill Capacity Charts

ALA3800 Raceway Wire Fill Capacities for Data/Communication

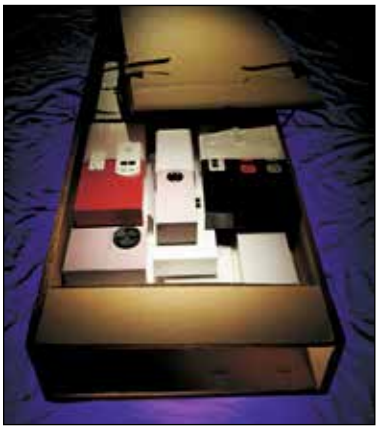
CABLE/WIRE TYPE		O.D. Inches	O.D. (mm)	AL4400 40%	AL4520** 40%	ALA4750 40%	ALA3800 40%	ALA4800** 40%	AL7450 TOP 40%	AL7450 BOTTOM 40%
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat. 3	0.190	(4.8)	66	84	69	86	86	71	66
	4-pair, 24 AWG Cat. 5e	0.210	(5.3)	55	69	57	70	70	58	55
	4-pair, 24 AWG Cat. 6	0.250	(6.4)	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.**

ALA3800 Raceway Wire Fill Capacities for Power (40% Fill Factor)

WIRE SIZE THHN (STRANDED)		ALA3800	AL4400*	AL4520*	AL4750	AL7450 Single	AL7450 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**



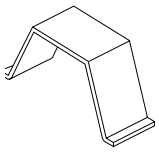
Wiremold Prewired Raceway reduces installation time, gets installers off the job faster, and eliminates the need for field cutting.

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.

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

ALA3800 Series Raceway Fittings Ordering Information

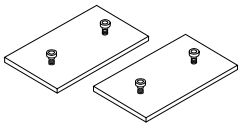
ALAWC



Wire Clip – Holds conductors in place along raceway. Snaps into grooves on base.

Country of Origin: USA

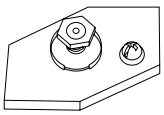
ALA01



Slide Coupling – Connects adjoining sections of ALA4800 Series Raceway base.

Country of Origin: USA

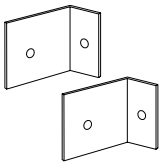
ALA09



Grounding Adapter – Connects to equipment grounding conductor

Country of Origin: USA

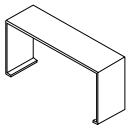
ALA17A



Internal Corner Coupling – Makes internal 90° turn in a raceway run

Country of Origin: USA

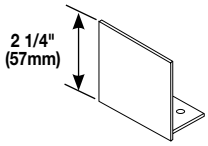
ALA3806



Cover Clip – Covers seam where two sections of ALAC-5 Cover come together.

Country of Origin: USA

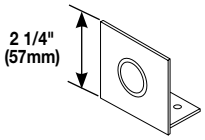
ALA3810B



Blank End Cap – Closes off open ends of ALA3800 Series Raceway.

Country of Origin: Mexico

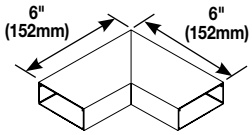
ALA3810B1



Entrance End Cap – For feeding raceway. Has two concentric 1/2" and 3/4" knockouts.

Country of Origin: Mexico

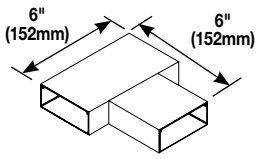
ALA3811



90° Flat Mitered Elbow with Coupling – Makes 90° turns in runs of ALA3800 Series Raceway. Includes two (2) ALA01 Couplings.

Country of Origin: Mexico

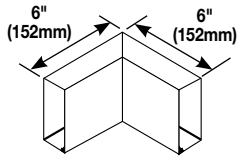
ALA3815



Flat Tee with Coupling – Makes branch connections of two runs of ALA3800 Series Raceway. Includes three (3) ALA01 Couplings.

Country of Origin: Mexico

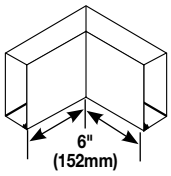
ALA3817



Internal Elbow with Coupling – Makes 90° internal turns in runs of ALA3800 Series Raceway. Includes Two (2) ALA01 Couplings.

Country of Origin: Mexico

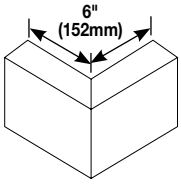
ALA3817N



Inverted Internal Elbow with Coupling – Connects vertical runs with horizontal runs of ALA3800 Series Raceway with its cover facing up. Includes two ALA01 Couplings.

Country of Origin: Mexico

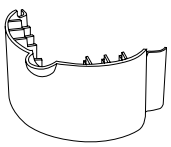
ALA3818



External Mitered Elbow with Coupling – Makes 90° external turns in runs of ALA3800 Series Raceway. Includes two (2) ALA01 Couplings.

Country of Origin: Mexico

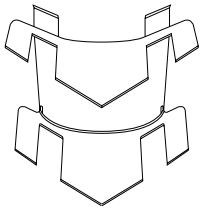
ALA11R1



Bend Radius Control Insert for Flat Elbow – Makes 90° turns in runs of ALA4800 Series Raceway. Includes four (4) ALA01Couplings.

Country of Origin: USA

ALA17/18R1

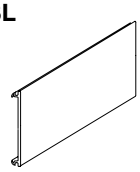


2" (51mm) Bend Radius Insert for Internal and External Elbow – Inserts into ALA3817, ALA3817N, and ALA3818 fittings. For new and retrofit applications whether the cable installation is lay-in or pull-through.

Country of Origin: USA

ALA3800 Series Raceway Device Plates Ordering Information

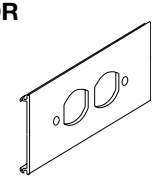
ALA-BL



Blank Cover Plate – Covers a 12" (305mm) section of raceway.

Country of Origin: Mexico

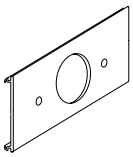
ALA-DR



Duplex Receptacle Cover Plate – Mounts standard duplex devices. Accepts 106 Frame.

Country of Origin: Mexico

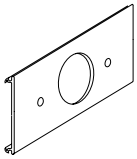
ALA-E



Single Receptacle Cover Plate – 1.40" (36mm) diameter. For straight blade and locking single receptacles.

Country of Origin: Mexico

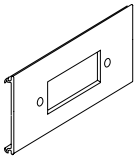
ALA-F



Single Receptacle Cover Plate – 1.59" (40mm) diameter. For straight blade and locking single receptacles.

Country of Origin: Mexico

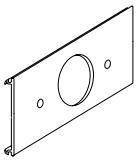
ALA-G



GFCI/Surge/Decorator Cover Plate – For GFCI or Pass & Seymour surge protection receptacles. receptacles.

Country of Origin: Mexico

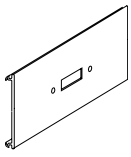
ALA-J



Single Receptacle Cover Plate – 2.13" (54mm) diameter. For straight blade or locking single receptacles.

Country of Origin: Mexico

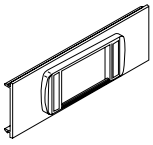
ALA-N



Toggle Switch Cover Plate – For toggle switch.

Country of Origin: Mexico

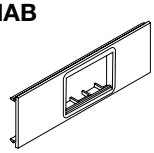
ALA-LPB



Activate LPB Cover Plate – Accepts Activate connectivity inserts. Includes cover and Activate low profile adapter with station label openings. (6A size opening)

Country of Origin: Mexico

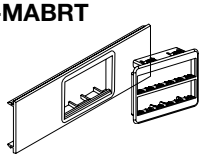
ALA-MAB



MAB Cover Plate – Accepts standard commercial faceplates. Provides a flush installation. Includes adapter.

Country of Origin: Mexico

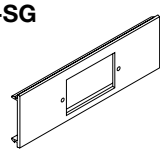
ALA-MABRT



Ortronics Cover Plate – Accepts six Ortronics TracJack® or three Series II communications inserts. Both adapters ncluded.

Country of Origin: Mexico

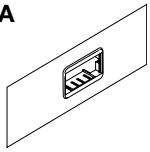
ALA-SG



Cover Plate with 1 3/4" x 2 3/4" (44mm x 70mm) Holecut – Accepts Activate connectivity inserts with a single-gang or angled single-gang faceplate (not included).

Country of Origin: Mexico

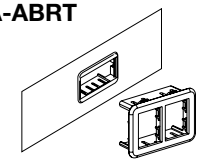
ALA-2A



Activate 2A Cover Plate – Accepts a single 2A Activate insert.

Country of Origin: Mexico

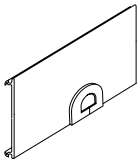
ALA-ABRT



Ortronics Cover Plate – Accepts two Ortronics TracJack® or one Series II communication inserts. Both adapters included.

Country of Origin: Mexico

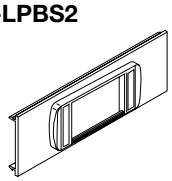
ALA-Z



3/4" (19.1mm) Grommet/ Mousehole Cover Plate – Facilitates the exit of voice or communication cabling. Grommet furnished.

Country of Origin: Mexico

ALA-LPBS2



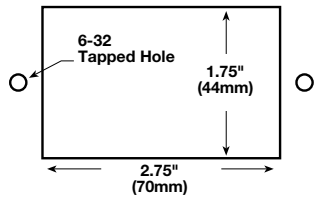
Ortronics® Low Profile Adapter Cover Plate – Accepts Ortronics datacom inserts. 3-Series II Devices Low Profile Adapter included.

Country of Origin: Mexico

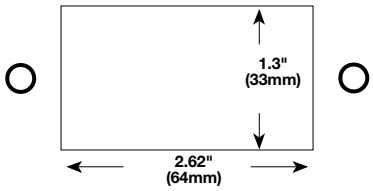
NOTE: All device plates are 12" (305mm) in length.

ALA3800 Series Raceway Communication Openings

Wallplate Openings

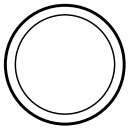


Rectangular Openings

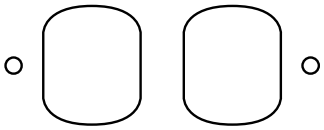


Grommet Openings

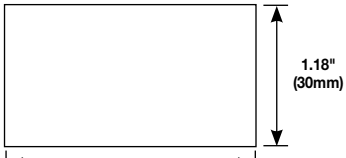
1/4" (6.4mm) Inner Diameter
1/2" (12.7mm) Inner Diameter
3/4" (19.1mm) Inner Diameter
Standard
1" (25mm) Inner Diameter



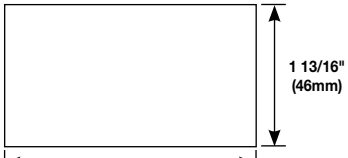
Duplex for Data



AB Adapter Openings



Low or High Profile Adapter Openings

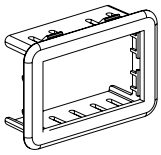


NOTE: Custom openings also available – consult factory for more information.

Communication Adapters

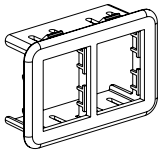
Ortronics

ABS2



Accepts One
Series II Module

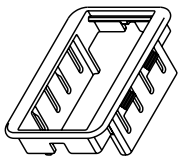
AB2TJ



Accepts Two
TracJack Modules

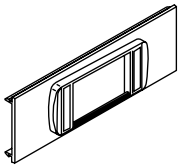
Pass & Seymour/Ortronics

CM-2AB



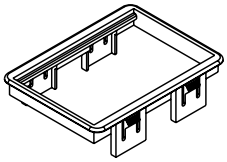
Accepts One
Activate 2A Module

Low Profile Adapter (LPB)

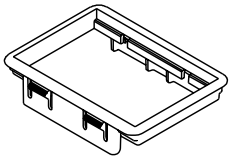


LPB – Accepts 3 Pass & Seymour Activate Inserts
LPB3S2 – Accepts 3 Ortronics Series II Inserts

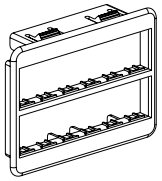
MAB



MAB3S2



MAB6TJ



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

ALA3800 Series Raceway Prewired 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.**

ALA3800 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.

PHASE 1

Documents to Rep

Electrical Plans
Data Plans
Legends & Schedules
Specifications

Quote

Quotation within 48 Hours based upon complexity

Take-Off Completed
Quote Delivered

PHASE 2

Purchase Order

Within 24 Hours

Place contractor order with authorized Prewired Distributor.
All bid and order documents to Wiremold Project Services.

Project Launch

Wiremold Project Manager assigned and PO acknowledged.

Documents reviewed for completeness.

Submittals

Within 2 Weeks

Includes Material Product Sheets, material list, Engineered raceway details, product placement drawings and release forms.

PHASE 3

Approval & Release

Within 2-4 Weeks

Return approved submittal package with required revisions and requested on site date.

Drawings revised.

Shipment

Material packaged & marked per area, and shipped with "as built" drawings and documents.

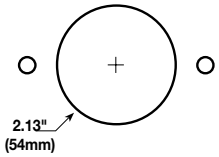
Prewired Raceway gets installers off the job in 1/3 less time than conventional raceway installations.

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

ALA3800 Series Raceway Device Openings

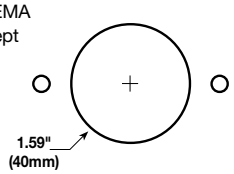
Single Receptacle
(30A & 50A Straight Blade)

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



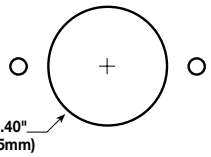
Single Receptacle
(NEMA Locking Devices)

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



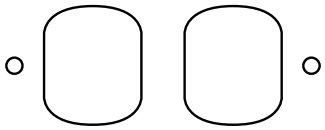
Single Receptacle
(15A & 20A Straight Blade & Locking)

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



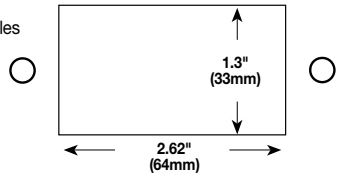
Duplex

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

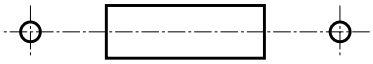


Rectangular Openings

Decorator Style
Rectangular GFCIs
Rectangular Surge
Protection Receptacles



Single-Gang Switch



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

ALA3800 Series Raceway Device Compatibility for Prewired Applications

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

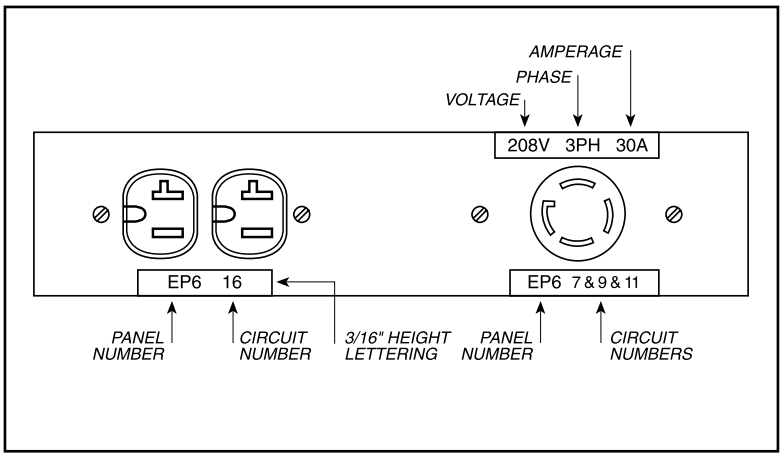
5-15R	5-20R	5-30R	5-50R	6-20R	6-30R	6-50R	7-30R	7-50R	10-20R	10-30R	10-50R	14-20R	14-30R
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

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

Y= will fit, N= will not fit , 1= requires adapter box

Device and Raceway Labeling Options

- Device labeling is available in the following materials:
  - Clear self-adhesive polyester labels
  - Other color self-adhesive polyester labels
  - Covers engraved 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).



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