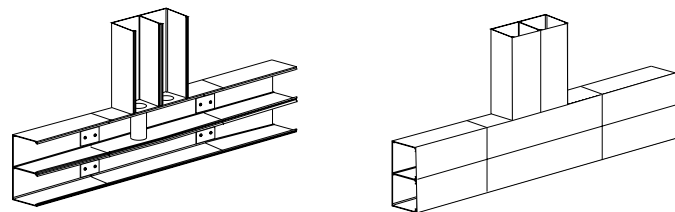
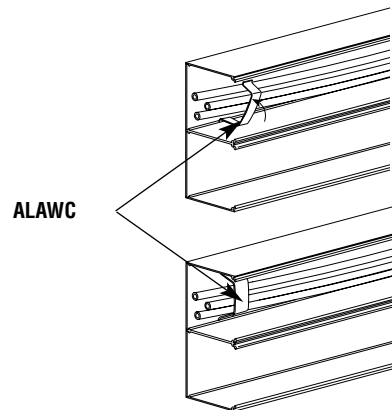


At 90° Outside Corner, position ALA4818 External Elbow at end of ALA4800B-10 Base. Slide other base section to other end of ALA4818. Center couplings on joints and tighten screws. After wiring system, snap on ALA4818 mitered covers.



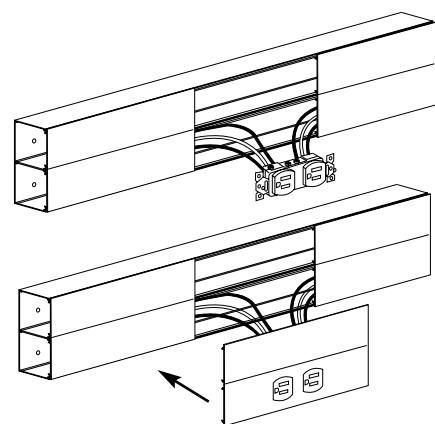
ALA4815

ALA4815 Tee: Position fitting at end of ALA4800B-10 Base. Install other base sections to other ends of the fitting. Center couplings on joints and tighten screws. Install fitting covers after wiring.

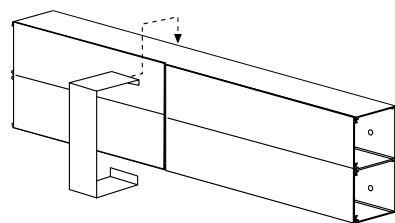


ALAWC

For retaining wires in long raceway runs, snap-in ALAWC Series Wire Clips into ALA4800B-10 Base as required.



For Device Plates (ALA-BL, ALA-E, ALA-DR, ALA-G, ALA-J, ALA-N, ALA-LPB, ALA-MAB, ALA-SG, ALA-2A, and ALA-Z), install wiring to devices as required. Attach devices to plate (using #6 screws and "Keps" nuts as required.) Snap device plate onto ALA4800B-10 Raceway Base.



Snap ALA4806 Cover Clip over joints in either ALA4800B Base or ALAC-5 Cover sections.



The Wiremold Company

In U.S.:

60 Woodlawn Street • West Hartford, CT 06110

1-800-621-0049 • FAX 860-232-2062

In Canada:

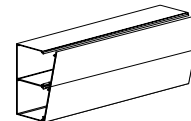
850 Gartshore Street • Fergus, Ontario N1M 2W8

1-800-741-7957 • FAX 519-843-5980



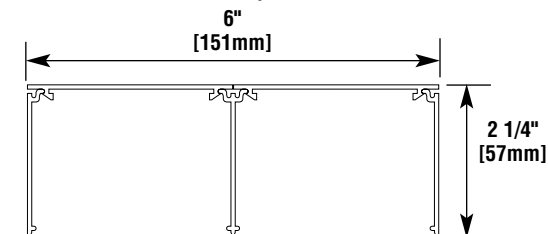
ALA4800 ALUMINUM RACEWAY

Installation Instructions



The ALA4800 is a permanent two-channel raceway that is versatile enough to accommodate power, data or telecommunication wiring.

NOTE: Cross-sectional area of each compartment indicated.



Wiremold Electrical Systems conform with, and should be installed and properly grounded in compliance with requirements of the current National Electrical Code or codes administered by local authorities. All electrical products may represent a possible shock or fire hazard if improperly installed or used. Wiremold electrical products are UL listed, made for interior use in a dry location and should be installed by qualified electrical people in conformance with current local and/or the National Electrical Code.

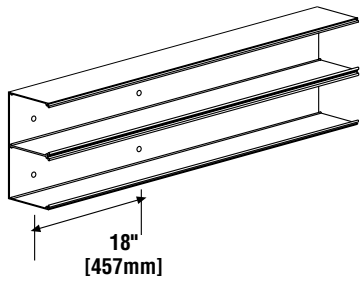
ALA4800 Raceway Cable Fill Capacity for Data/Communication

	CABLE/WIRE SIZE	O.D. INCHES [MM]	20% FILL	40% FILL
UNSHIELDED TWISTED PAIR	4-Pair, 24 AWG Cat. 5	0.220 [5.6]	31	62
	4-Pair, 24 AWG Cat. 3	0.190 [4.8]	41	83
TELEPHONE	2-Pair, 24 AWG	0.140 [3.6]	77	154
	3-Pair, 24 AWG	0.150 [3.8]	67	134
	4-Pair, 24 AWG	0.190 [4.8]	41	83
	25-Pair, 24 AWG	0.410 [10.4]	8	17
COAXIAL CABLES	RG58/U 18	0.195 [5.0]	39	79
	RG59/U 22	0.242 [6.1]	25	51
	RG62/U 20	0.242 [6.1]	25	51
	RG6/U 22	0.270 [6.9]	20	41
TWINAXIAL	100 Ohm	0.330 [8.4]	13	27
SHIELDED TWISTED PAIR	TYPE 1	0.390 [9.9]	9	19
	TYPE 2	0.465 [11.8]	6	13
	TYPE 3	0.245 [6.2]	25	50
FIBER OPTIC	Two Strand (Duplex) Multimode 62.5/125 µm	0.190 [4.8]	41	83

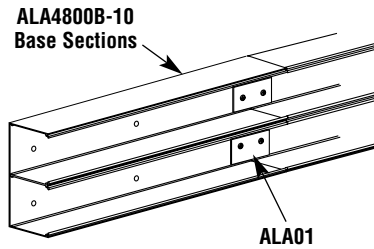
*Capacity range is calculated at 20% to 40% of raceway area as stated in a proposed revisions to the Commercial Building Standard for Telecommunication Pathways & Spaces, EIA/TIA-569. Actual wire fill capacity may vary based on applications, cable types, and number, as well as type of fittings. (Fittings may cause additional variances to the fill capacity.)

ALA4800 Raceway Cable Fill Capacity for Power

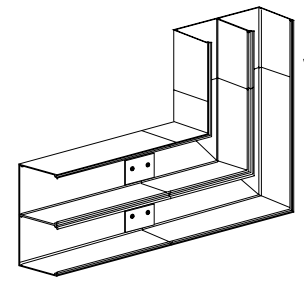
	WIRE SIZE THHN/THWN	O.D. INCHES [MM]	40% FILL
POWER WIRING WITHOUT DEVICES	6 AWG	0.257 [6.5]	41
	8 AWG	0.218 [5.5]	56
	10 AWG	0.153 [3.9]	98
	12 AWG	0.122 [3.1]	156
	14 AWG	0.105 [2.7]	214
POWER WIRING WITH DEVICES	6 AWG	0.257 [6.5]	30
	8 AWG	0.218 [5.5]	42
	10 AWG	0.153 [3.9]	73
	12 AWG	0.122 [3.1]	116
	14 AWG	0.105 [2.7]	159



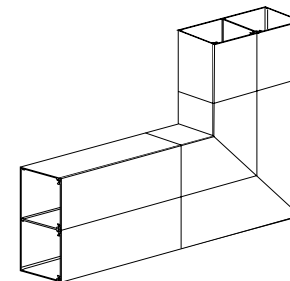
To attach ALA4800B-10 Series Base sections to mounting surface; drill 9/32" [7.14mm] holes in the base (approx. 18" [457mm] O.C.). Fasten Base with #8 flat head screws.



At ALA4800B-10 Base section butt joints: slide two ALA01 Couplings into first base section. Mount next base to surface. Center couplings on joint. Tighten locking screws.

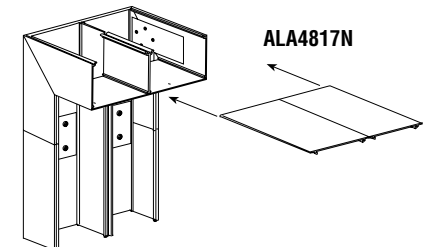


ALA4811



ALA4811 With Cover

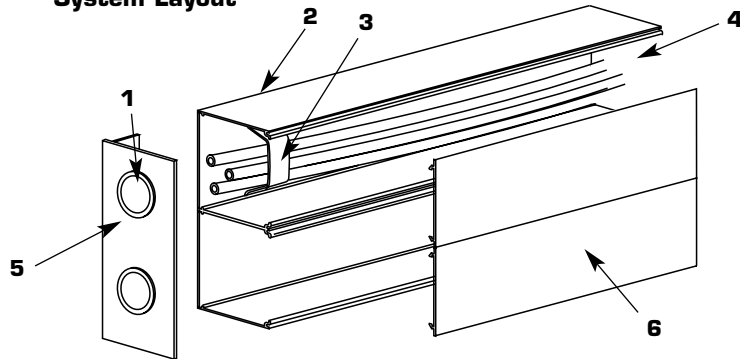
At 90° turn on same surface, position ALA4811 Flat Elbow at end of ALA4800B Base. Position next base section onto other end of ALA4811. Center couplings over base joints and tighten screws. Install ALA4811 Covers and ALA4800 Series Covers as shown after wiring.



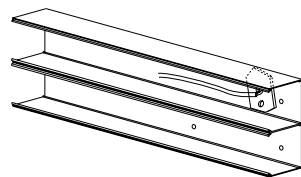
ALA4817N

For connecting a vertical run of ALA4800B with a horizontal overhead run with its cover facing up. Assemble ALA4817N to raceway bases with ALA01 Couplings included.

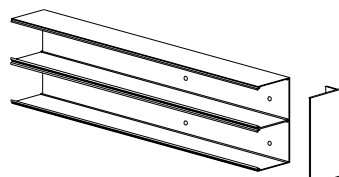
System Layout



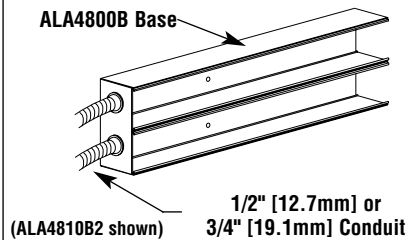
- 1 - Provide electrical feed through 1/2" [12.7mm] or 3/4" [19.1mm] KOs in ALA4810B2 End Cap.
- 2 - Attach base section to mounting surface by drilling 9/32" [7.14mm] holes in the base then fastening with #8 flat head screws.
- 3 - Secure conductors in place with ALAWC Wire Clip.
- 4 - Join additional raceway sections with two ALA01 Couplings.
- 5 - Close ends with ALA4810B2 End Caps.
- 6 - Snap ALAC-5 Cover into ALA4800B-10 Base to complete installation.



Position ALA09 Ground Clamp into ribs in ALA4800B-10 Base. Fasten mounting screw. Attach ground wire using brass cup washer & green hex nut to ground lug.

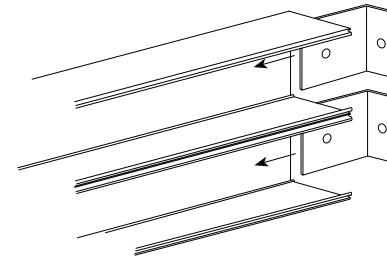


At end of ALA4800B-10 Raceway run: slide ALA4810B Blank End Fitting in last base section. Secure in place by tightening two screws.



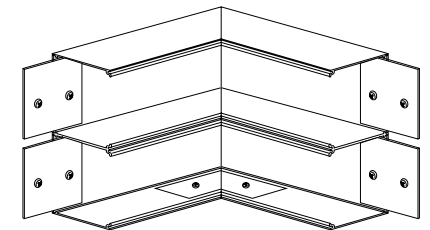
End-feeding: ALA4810B2 Series End Fittings have concentric 1/2" [12.7mm] and 3/4" [19.1mm] trade size KOs in end. Provide electrical feed through KOs. Insert fitting into end of raceway base. Secure in place by tightening two screws.

Options for 90° Internal Corners:



ALA17A Internal Corner Coupling

Install one side of ALA17A Internal Coupling, **BEFORE** mounting raceway base. Fasten first base section to wall, then slide adjoining base onto coupling legs. Tighten all four coupling screws.



ALA4817 Internal Elbow

Install ALA4817 to first raceway base, **BEFORE** mounting raceway base. Fasten base section to surface. Butt next section of base. Center couplings over base joints, tighten set screws.