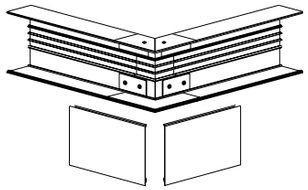
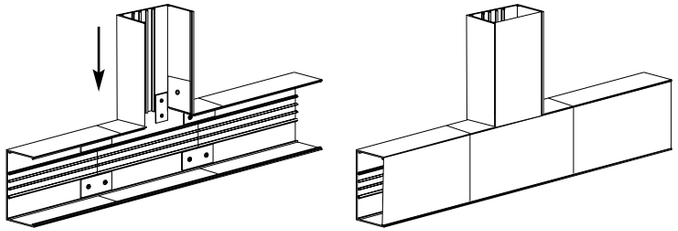
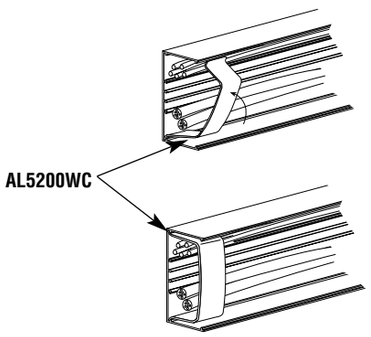


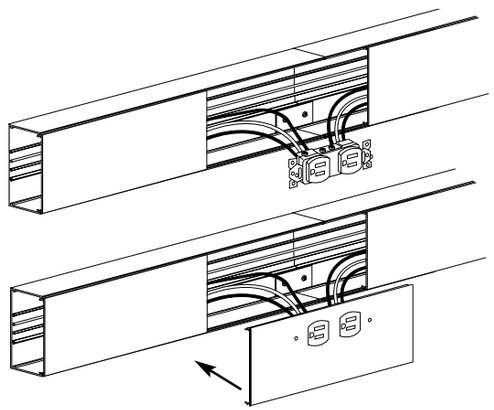
At 90° Outside Corner, position AL5218 External Elbow at end of AL5200B Base. Slide other base section to other end of AL5218. Center couplings on joints and tighten screws. After wiring system, snap on AL5218 mitered covers.



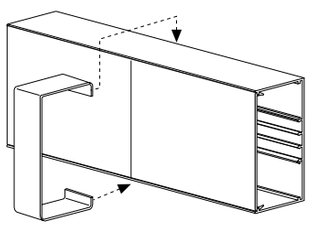
AL5215 Tee (shown above) and Al5216 Cross: Position fitting at end of AL5200B Base. Install other base sections to other ends of the fitting. Center couplings on joints and tighten screws. Install fitting covers after wiring.



For retaining wires in long raceway runs, snap-in AL5200WC Series Wire Clips into AL5200B Base as required.



For AL5246P Series Device Plates, install wiring to devices as required. Attach devices to plate using #6 screws and "Keps" nuts provided. Snap device plate onto AL5200B raceway base.



Snap AL5206 Cover Clip over joints in either AL5200B Base or AL5200C Cover sections.

WIREMOLD™

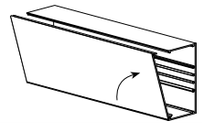
The Wiremold Company
In U.S.:
60 Woodlawn Street • West Hartford, CT 06133-2500
1-800-621-0049 • FAX 860-232-2062
In Canada:
850 Gartshore Street • Fergus, Ontario N1M 2W8
1-800-741-7957 • FAX 519-843-5980

41045 896

WIREMOLD™
Wire Management Systems

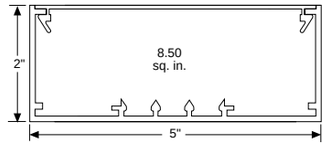
AL5200 ALUMINUM RACEWAY

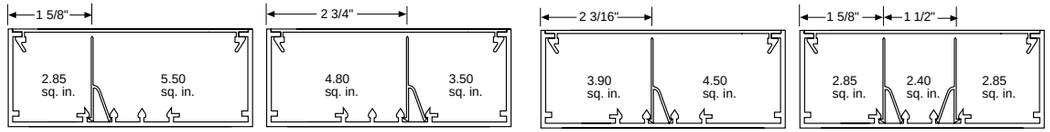
Installation Instructions



Raceway may be configured in single or multiple channels in several versatile ways to accommodate power, data or telecommunications 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 and should be installed by qualified electrical people in conformance with current local and/or the National Electrical Code.

AL5200 RACEWAY WIRE FILL CAPACITIES FOR POWER

CAPACITY OF CROSS SECTIONAL AREA WITH DUPLEX DEVICE (1.34 Sq. In.)

WIRE TYPE		3.5"	3.9"	4.5"	4.8"	5.5"	8.5"
THWN/THHN	#6	16	19	24	26	32	55
	#8	23	27	34	37	44	76
	#10	47	55	68	75	90	155
	#12	74	87	108	118	142	244
	#14	99	117	145	159	191	329

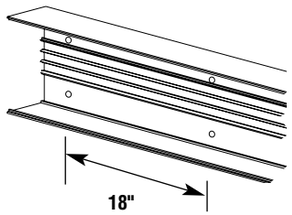
CAPACITY OF CROSS SECTIONAL AREA WITHOUT DEVICES

WIRE TYPE		2.4"	2.85"	3.5"	3.9"	4.5"	4.8"	5.5"	8.5"
THWN/THHN	#6	18	22	27	30	34	37	42	65
	#8	25	30	37	42	48	51	59	91
	#10	52	62	76	84	98	104	119	184
	#12	82	97	119	133	154	164	188	290
	#14	110	131	161	179	207	220	253	391

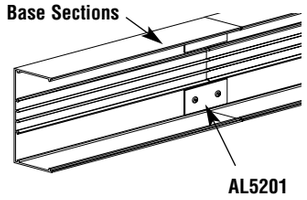
AL5200 RACEWAY WIRE FILL CAPACITIES FOR DATA/COMMUNICATIONS[1]

CABLE/WIRE SIZE		O.D.	CAPACITY OF CROSS SECTION AREA* 2.4"	2.85"	3.5"	3.9"	4.5"	4.8"	5.5"	8.5"
UNSHIELDED TWISTED PAIR (UTP)	4-Pair, 24 AWG, Cat.5	0.220	19	22	27	31	35	38	43	67
	4-Pair, 24 AWG, Cat.3	0.190	25	30	37	41	47	50	58	90
TELEPHONE	2-Pair, 24 AWG	0.140	47	55	68	76	87	93	107	165
	3-Pair, 24 AWG	0.150	41	48	59	66	76	81	93	144
	4-Pair, 24 AWG	0.190	25	30	37	41	47	51	58	90
	25-Pair, 24 AWG	0.410	5	6	8	9	10	11	12	19
COAXIAL CABLES	RG58/U 18 Gage	0.195	24	28	35	39	45	48	55	85
	RG59/U 22 Gage	0.242	15	18	23	25	29	31	36	55
	RG62A/U 20 Gage	0.242	15	18	23	25	29	31	36	55
	RG6/U 22 Gage	0.270	12	15	18	20	23	25	29	44
TWINAXIAL	100 Ohm	0.330	8	10	12	13	16	17	19	30
SHIELDED TWISTED PAIR (STP)	TYPE 1	0.390	6	7	9	10	11	12	14	21
	TYPE 2	0.465	4	5	6	7	8	8	9	15
	TYPE 9	0.275	12	15	18	20	23	25	28	44

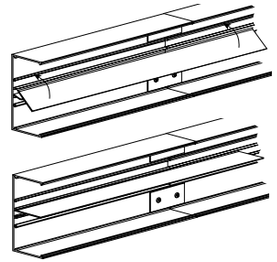
[1] Capacity range is calculated at 40% of raceway areas based on pending changes to the Commercial Buildings Standard for Telecommunication Pathways and Spaces, EIA/TIA-569. Caution: Capacity for radial bonds reduce to 20% of raceway area.



To attach AL5200B Series Base sections to mounting surface; drill 9/32" holes in the base (approx. 18" O.C.). Fasten Base with #8 flat head screws.

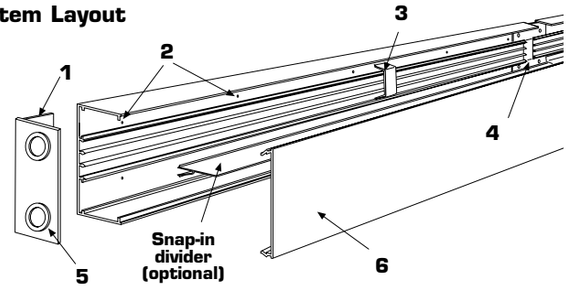


At AL5200B Base section butt joints: slide two (2) AL5201 Couplings into first base section. Mount next base to surface. Center couplings on joint. Tighten locking screws.

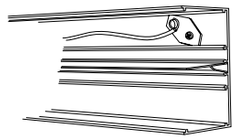


Snap in AL5200D Divider into raceway base as shown. Refer to cross-sectional drawings above for versatile divider locations.

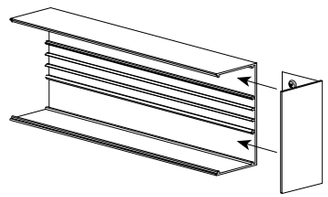
System Layout



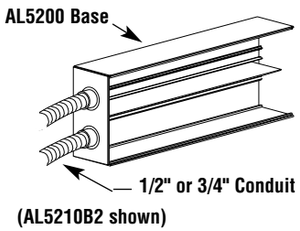
1 - Provide electrical feed through 1/2" or 3/4" KOs in AL5210B2 End Cap.
2 - Attach base section to mounting surface by drilling 9/32" holes in the base then fastening with #8 flat head screws.
3 - Secure conductors in place with AL5200WC Wire Clip.
4 - Join additional raceway sections with two AL5201 Couplings.
5 - Close ends with AL5210B2 End Caps.
6 - Snap cover into base to complete installation.



Position AL5209 Ground Clamp into ribs in AL5200B Base. Fasten mounting screw. Attach ground wire to green ground lug.

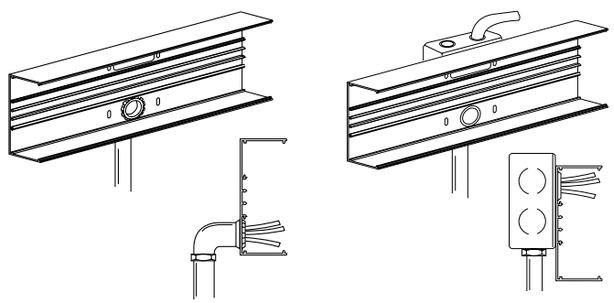


At end of AL5200 Raceway run: slide AL5210B Blank End Fitting in last base section. Secure in place by tightening two screws.

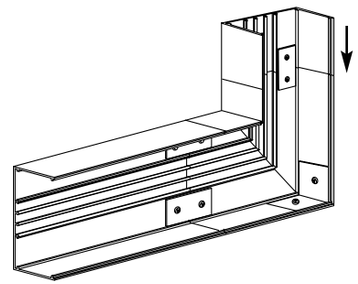


End-feeding: AL5210B2/ AL5210B1/ AL5210B3 Series End Fittings have concentric 1/2" and 3/4" trade size KOs in end. Provide electrical feed through KOs. Insert fitting into end of raceway base. Secure in place by tightening two screws.

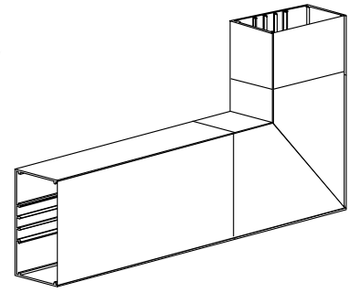
Using AL5214 Wall Box Connector



AL5214 Wall Box Connector connects to two in line AL5200B base sections via AL5201 Couplings supplied.

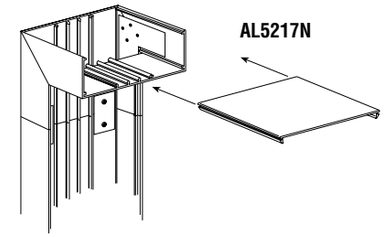


AL5211



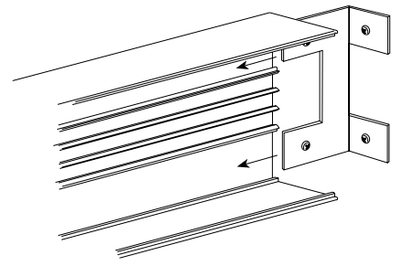
AL5211 With Cover

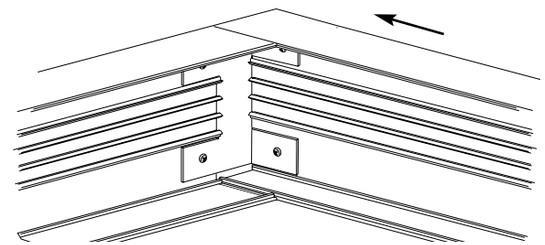
At 90° turn on same surface, position AL5211 Flat Elbow at end of AL5200B Base. Position next base section onto other end of AL5211. Center couplings over base joints and tighten screws. Install AL5211 Covers and AL5200C Covers as shown after wiring.



For connecting a vertical run of AL5200 with a horizontal overhead run with its cover facing up. Assemble AL5217N to raceway bases with AL5201 Couplings supplied.

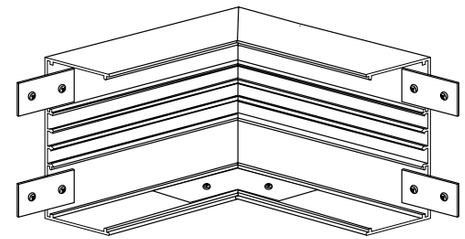
Options for 90° Internal Corners:

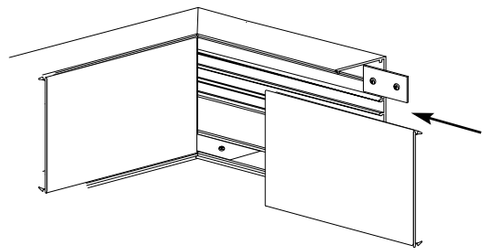




AL5217A Internal Corner Coupling

Install one side of AL5217A Internal Coupling, ***BEFORE*** mounting raceway base. Fasten first base section to wall, then slide adjoining base onto coupling legs. Tighten all four coupling screws.





AL5217 Internal Elbow

Install AL5217 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.