WIREMOLD

legrand®

ALDS4000 Activation

INSTALLATION INSTRUCTIONS

Installation Instruction No.: 43373R1 – Updated April 2006

Wiremold / Legrand Electrical Systems conform to and should be installed and properly grounded in compliance with requirements of the current National Electrical Code, Canadian Electrical Code, or codes administered by local authorities.

All electrical products may represent possible shock or fire hazard if improperly installed or used. Wiremold electrical products are UL listed to U.S. and Canadian safety standards, made for interior use only, and should be installed in conformance with current local and/or the National Electrical Code.

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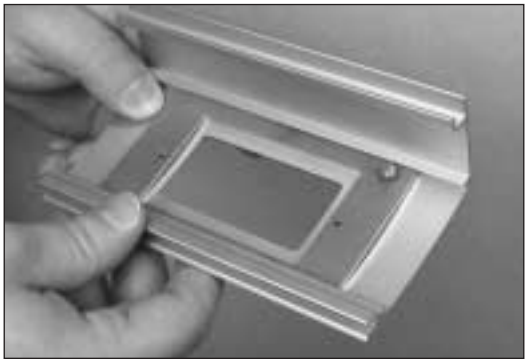
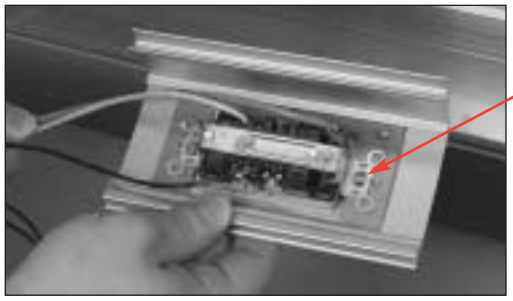
Products Covered: ***ALDS4047C, ALDS4047D, ALDS4047E, ALDS4047F, ALDS4047R, ALDS4047-2A, & ALDS4047MAB***

TO MOUNT ALDS4047D, ALDS4047E, ALDS4047F AND ALDS4047R:

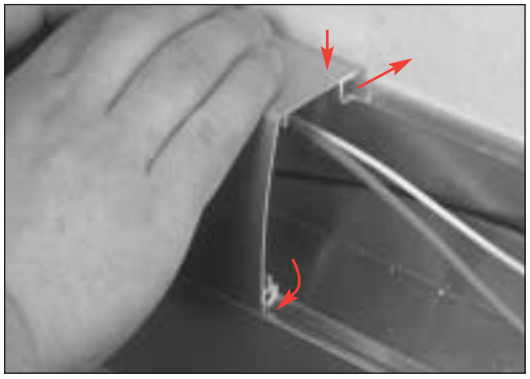
Step 1. Slide the Device Bracket into the rails on the underside of the Device Plate so that the rectangular opening in the Bracket is centered over the opening in the Device Plate.



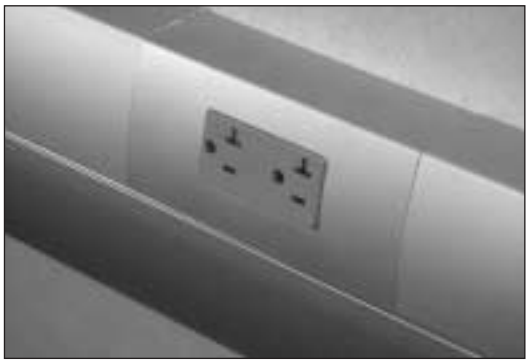
Step 2. Wire and mount the Device using the two #6 screws provided with the Device Plate. Screws are passed through the holes in the Receptacle from behind, and thread into the Device Bracket as shown. Tighten the screw on the corner of the Bracket in order to lock the Bracket in place.



Step 3. Snap the Device Plate to the Raceway Base by hooking the edge over the Divider and squeezing the snap on the Base.



Step 4. Installation complete. (ALDS4047R shown)



For more information, visit www.wiremold.com/ds4000.

TO MOUNT ALDS4047C:

Step 1. Pull Wires through opening in Device Plate and snap Device Plate to Raceway Base.

Step 2. Pull Wires through the Device Bracket and wire Receptacle.

Step 3. Use Screws provided to screw through the Receptacle and Device Bracket into threaded holes in Device Plate.

Step 4. Standard Faceplates (not provided) complete the installation.

ALDS4047-2A: No Bracket required. Bezel (included) can hold up to two communications ports.

ALDS4047MAB: Bezel (included) can hold up to six communications ports.

ALDS4000 Raceway Wire Fill Capacities for Power

WIRE SIZE THHN/THWN	O.D. Inches	[mm]	NUMBER OF CONDUCTORS (40% FILL) WITHOUT DEVICES	w/DUPLEX RECT. DEVICE 1.59in.² [1025mm²]	w/SURGE GFCI DEVICE 2.30in.² [1485mm²]	LARGE SINGLE RECEPTACLE 3.00in.² [1935mm²]
14 AWG	0.111	[2.8]	200	134	105	76
12 AWG	0.130	[3.3]	146	98	77	56
10 AWG	0.164	[4.2]	92	62	48	35
8 AWG	0.216	[5.5]	53	36	28	20
6 AWG	0.254	[6.5]	38	26	20	15

NOTE: *For additional information, refer to the Technical Section of the current version of ED439 (Wiremold Buyer's Guide).*

ALDS4000 Raceway Wire Fill Capacities for Communication

CABLE TYPE	CATEGORY/ DESIGNATION	O.D. Inches	[mm]	40% FILL 1/2 COMPARTMENT
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3	0.190	[4.8]	68
	4-pair, 24 AWG Cat 5e	0.210	[5.3]	56
	4-pair, 24 AWG Cat 6	0.250	[6.3]	40
	4-pair, 24 AWG Cat 6a*	0.335	[8.5]	22
	25-pair, 24 AWG	0.360	[9.1]	18
COAXIAL	RG6/U	0.270	[6.9]	34
FIBER	ZipCord	0.118 x 0.236	[3 x 6]	70
	Round 4 Strand Fiber	0.187	[4.8]	71
	Round 6 Strand Fiber	0.256	[6.5]	38

**Category 6 Augmented cable for 10 gigabit ethernet – max allowed cable diameter per Addendum 11 to ANSI/TIA-568-B.2.*

ALDS4000 Raceway Fittings Wire Fill Capacity Chart

WIRE SIZE THHN		O.D. Inches	[mm]	ALDS4011 40%	ALDS4011 60%	ALDS4015 40%**	ALDS4015 60%**	ALDS4017 40%**	ALDS4017 60%**	ALDS4018 40%**	ALDS4018 60%**
THHN	14	0.111	[2.8]	122	182	49	73	75	112	133	199
	12	0.130	[3.3]	89	133	35	53	54	82	97	145
	10	0.164	[4.2]	56	84	22	34	34	51	61	92
	8	0.216	[5.5]	32	48	13	19	20	30	35	53
	6	0.254	[6.5]	23	35	9	14	14	21	25	38
UTP	2-pair, 24 AWG	0.150	[4.8]	67	100	27	40	41	61	73	109
	4-pair, 24 AWG Cat 3	0.190	[4.8]	42	62	17	25	25	38	45	68
	4-pair, 24 AWG Cat 5e	0.210	[5.3]	34	51	14	20	21	31	37	56
	4-pair, 24 AWG Cat 6	0.250	[6.3]	24	36	10	14	15	22	26	39
	4-pair, 24 AWG Cat 6a*	0.354	[9.0]	13	20	5	8	8	12	15	22
	25-pair, 24 AWG	0.410	[10.4]	12	17	5	7	7	11	13	10
Coaxial	RG6/U	0.270	[6.9]	21	31	8	12	13	19	22	24
Fiber	ZipCord	0.118 x 0.236	[3 x 6]	42	64	17	25	26	39	46	69
	Round 4 Strand Fiber	0.187	[4.8]	43	64	17	26	26	40	47	70
	Round 6 Strand Fiber	0.256	[6.5]	23	34	9	14	14	21	25	38

** Entrance end fitting fill rate is calculated using backfeed capability and radius inserts. Inserts are removable and fitting can obtain maximum raceway fill from utilizing end fitting knockouts and removing radius control inserts.*

***Calculated using radius control inserts. Inserts are factory installed and may be removed in order to obtain full raceway capacity if radius control is not required.*

For more information, visit www.wiremold.com/ds4000.

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43373R1 – Updated April 2006 – For latest specs visit www.wiremold.com