

## DS4000™ Mounting Bracket & Splice Cover

### INSTALLATION INSTRUCTIONS

Installation Instruction No.: 43269 – July 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.



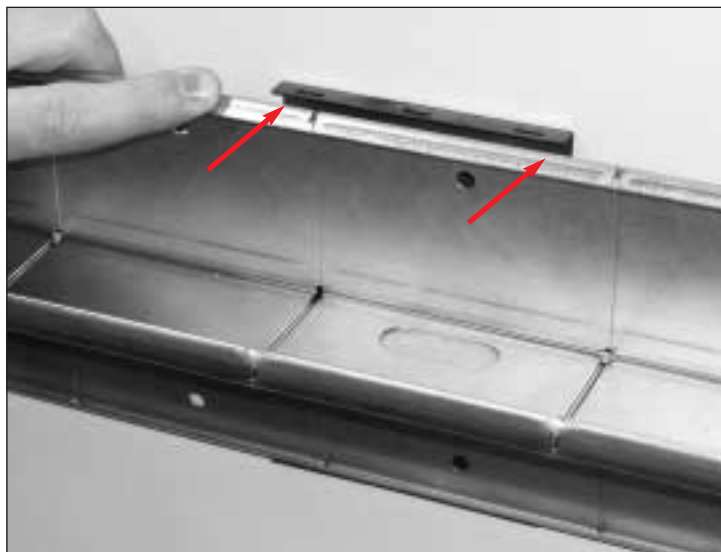
**Products Covered:** DS4003, DS4006A

#### DS4003 MOUNTING BRACKET INSTALLATION:

**Step 1.** Position the DS4003 Mounting Bracket in the middle of location where a section of ALDS4000B or DS4000B Raceway Base is to be mounted. Secure to mounting surface with minimum #8 flat head screws.



**Step 2.** Hook raceway base onto bottom of DS4003 Mounting Bracket and snap into place.



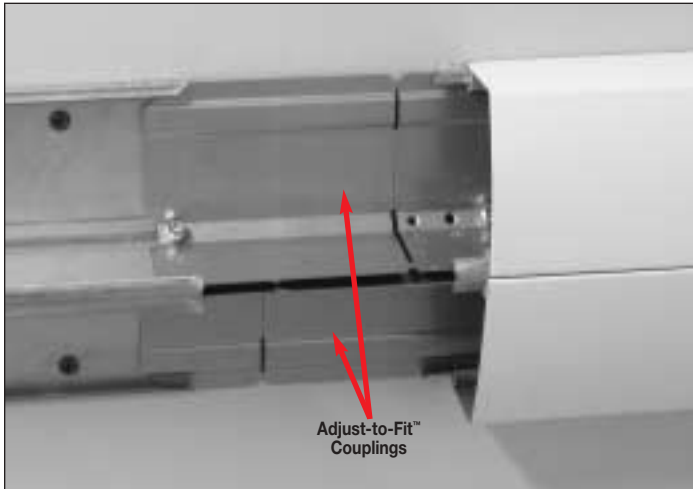
**Step 3.** Secure the ends of the raceway base section to the mounting surface with minimum #8 screws.



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## DS4006A SPLICE COVER INSTALLATION:

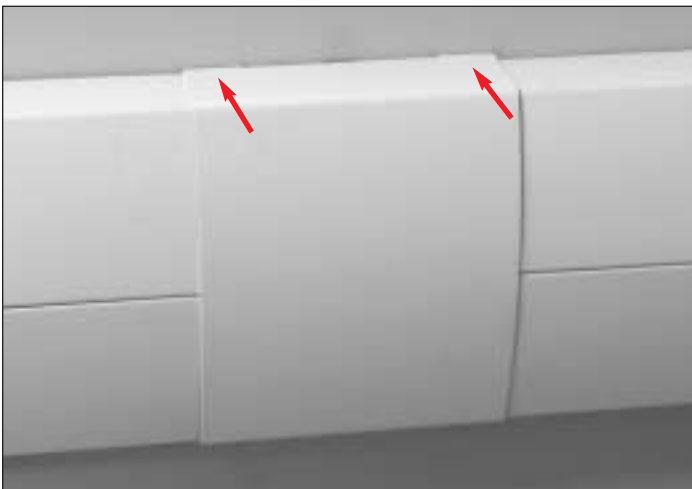
**Step 1.** Connect two sections of 4000 Designer Series™ Aluminum or Steel Raceway Base with two Adjust-to-Fit™ Couplings.



**Step 2.** Install Raceway Covers and make any splices to wiring as needed.



**Step 3.** Install D4006A Splice Cover as shown.



### DS4000 Raceway Wire Fill Capacities for Power

WIRE SIZE THHN/THWN	O.D. Inches [mm]		NUMBER OF CONDUCTORS (40% FILL)				
			WITHOUT DEVICES	w/DUPLEX RECT. DEVICES 1.59in. <sup>2</sup> [1025mm <sup>2</sup> ]	w/SURGE GFCI DEVICES 2.30in. <sup>2</sup> [1485mm <sup>2</sup> ]	w/LARGE SINGLE RECEPTACLE 3.00in. <sup>2</sup> [1935mm <sup>2</sup> ]	40% FILL w/DOWNWARD ACTIVATION/CROSSOVER
14 AWG	0.111	[2.8]	206	141	111	83	46
12 AWG	0.130	[3.3]	150	103	81	60	33
10 AWG	0.164	[4.2]	95	64	51	38	21
8 AWG	0.216	[5.5]	54	37	29	22	12
6 AWG	0.254	[6.5]	39	27	21	15	8

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

### DS4000 Raceway Wire Fill Capacities for Communication

CABLE TYPE	CATEGORY/ DESIGNATION	O.D.		40% FILL 1/2 COMPARTMENT	40% FILL w/DOWNWARD ACTIVATION/CROSSOVER
		Inches	[mm]		
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 3	0.190	[4.8]	70	28
	4-pair, 24 AWG Cat 5e	0.210	[5.3]	57	23
	4-pair, 24 AWG Cat 6	0.250	[6.3]	40	16
	4-pair, 24 AWG Cat 6a*	0.354	[9.0]	20	8
	25-pair, 24 AWG	0.410	[10.4]	15	6
COAXIAL	RG6/U	0.270	[6.9]	35	14
FIBER	ZipCord	0.118 x 0.236	[3 x 6]	72	29
	Round 4 Strand Fiber	0.187	[4.8]	73	29
	Round 6 Strand Fiber	0.256	[6.5]	38	15

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

### DS4000 Raceway Fittings Wire Fill Capacity Chart

WIRE SIZE THHN		O.D.		DS4010A*		DS4011		DS4015		DS4017**		DS4018**		DS4075		DS4075A**	
		Inches	[mm]	40%	60%	40%	60%	40%	60%	40%	60%	40%	60%	40%	60%	40%	60%
THHN	14	0.111	[2.8]	125	187	171	256	62	93	160	239	142	213	106	160	142	213
	12	0.130	[3.3]	91	137	125	187	45	68	116	175	104	156	78	116	104	156
	10	0.164	[4.2]	57	86	78	118	28	43	73	110	65	98	49	73	65	98
	8	0.216	[5.5]	33	50	45	68	16	25	42	63	38	57	28	42	38	57
	6	0.254	[6.5]	24	36	33	49	12	18	31	46	27	41	20	31	27	41
UTP	2-pair, 24 AWG	0.150	[4.8]	68	103	94	140	49	74	87	131	78	117	58	87	78	117
	4-pair, 24 AWG Cat 3	0.190	[4.8]	43	64	58	87	31	46	55	82	49	73	36	55	49	73
	4-pair, 24 AWG Cat 5e	0.210	[5.3]	35	52	48	72	25	38	45	67	40	60	30	45	40	60
	4-pair, 24 AWG Cat 6	0.250	[6.3]	25	37	34	51	18	27	32	47	28	42	21	32	28	42
	4-pair, 24 AWG Cat 6a*	0.354	[9.0]	12	18	17	25	9	13	16	24	14	21	10	16	14	21
	25-pair, 24 AWG	0.410	[10.4]	12	18	16	24	9	13	15	23	14	20	10	15	14	20
Coaxial	RG6/U	0.270	[6.9]	21	32	29	43	15	23	27	41	24	36	18	27	24	36
Fiber	ZipCord	0.118 x 0.236	[3 x 6]	44	65	59	89	31	47	56	83	50	74	37	56	50	74
	Round 4 Strand Fiber	0.187	[4.8]	44	66	60	90	32	48	56	85	50	75	38	56	50	75
	Round 6 Strand Fiber	0.256	[6.5]	24	35	32	48	17	26	30	45	27	40	20	30	27	40

\* 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.