

Features

BA42 series is a Contractor Grade, efficient, field configurable and durable LED strip light. It is suitable for use in coves, under cabinets, in shelves, millwork, and virtually anywhere a linear light is required.



BA42



BA42 REEL

Mounting

BA strip is equipped with 3M™ adhesive transfer tape.

Applications

Indoor only - millwork, cove, architectural reveals, undercabinet, display case, handrail, accent lighting.

Approvals

Class 2 damp listed

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
5 years



Technical information

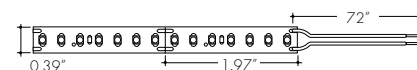
TYPE	BA42			
OUTPUT OPTIONS	SO	HO	VHO	XHO
Lumens Output (3000K)	196 lm/ft	373 lm/ft	539 lm/ft	796 lm/ft
Average Power Consumption (for a 4' section)	2.0 W/ft	4.0 W/ft	6.0 W/ft	8.0 W/ft
Efficacy	98 lm/W	93 lm/W	90 lm/W	98 lm/W
Cutting Increment (in)	1.97"			
Pitch Length	0.28"			
Max Run Length (in series to 30W)	14 ft	7 ft	4 ft	3 ft
Max Run Length (in series to 60W)	40 ft	16 ft	10 ft	7 ft
Max Run Length (in series to 96W)	50 ft	30 ft	24 ft	14 ft
Dimensions	0.39"W x 0.06" H			
Ambient Operating Temperature Range*	-40°F -104°F (-40° C - 40° C)			

Please note, the XHO output must be paired with an aluminum extrusion

Section Start/End Options

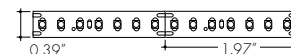
SL

Soldered lead wires (72")



NC

No connector



CCT	Multiplier (reference - 3000K)	CRI
2100K	0.86	90
2400K	0.90	90
2700K	0.90	90
3000K	1.00	90
3500K	1.03	90

Ordering code

MODEL	OUTPUT	CCT	SECTION START	SECTION END	LENGTH
BA42 - Basics Strip	SO - Standard HO - High VHO - Very High XHO - Extreme	21K - 2100K 24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K	(Leave blank for Reels)	(Leave blank for Reels)	R16 - Reel, 16ft ¹ R50 - Reel, 50ft ²
			SL - Soldered lead wires (72") NC - No connector	SL - Soldered lead wires (72") NC - No connector	— - Nominal length, 1 ft increments ³

1 - R16, 16 ft reels include 3 each of LL-PFC-10-72 and LL-PJC-10-03
2 - R50, 50 ft reels include 6 each of LL-PFC-10-72 and LL-PJC-10-03
3 - Ordered in one foot increments. See chart above for max run length.

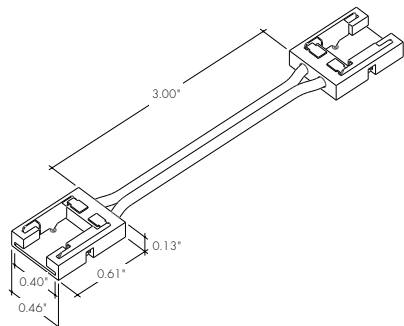
Minii Connectors

Minii connectors are easy, field-installable accessories that make joining LL strip simple! Their minimal width allows them to fit into extrusions, while their transparent frame eliminates dark spots.

Note: verify internal extrusion dimensions to confirm compatibility

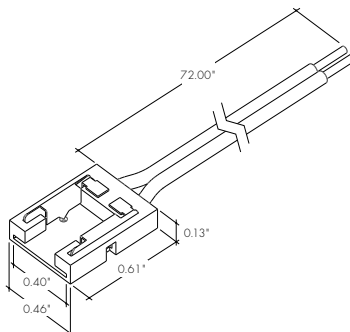
LL-PJC-10-03

Jumper minii connector with 3" wire for BA42 LED strip



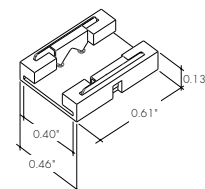
LL-PFC-10-72

Power feed minii connector with 72" wire for BA42 LED strip

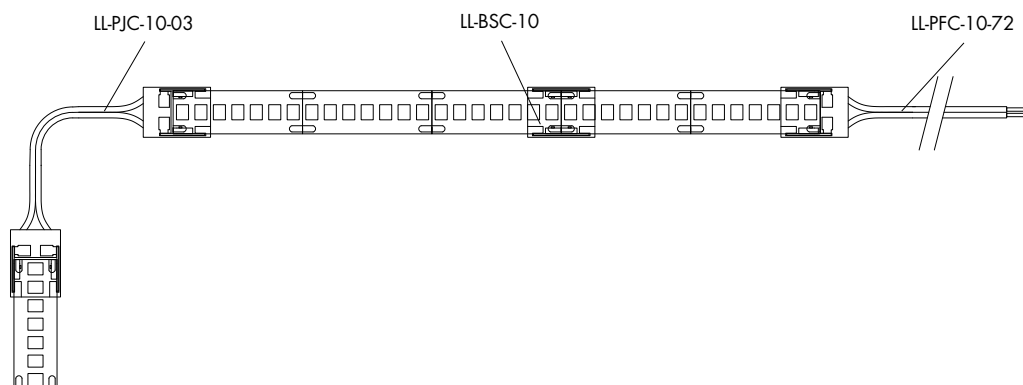


LL-BSC-10

Butt splice minii connector for BA42 LED strip



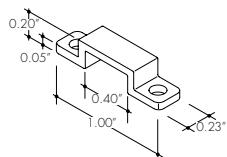
Sample Layout



Accessories

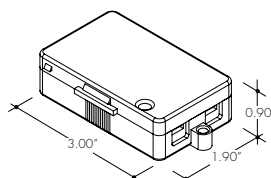
CL1

Mounting clip



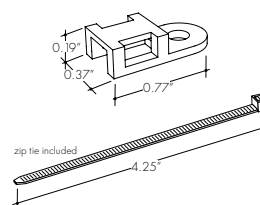
LVSP-4T-BK

Low Voltage, 4 Terminal Splice Box, Black



LL-ZIP

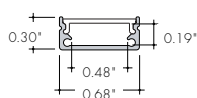
Cable/Wire Strain Relief Clip



Recommended every 12" when LineLED strip is facing down

Lens Options / Light Transmission

B5 CHANNEL -B5C

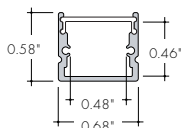


Lens	Clear	Half Frosted	Frosted
Transmission %	89%	78%	65%
Dotting*	CD	CD	CD

*At 100% brightness

NOT Compatible with
- XHO output

BM CHANNEL -BMC

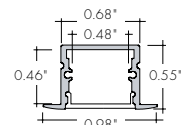
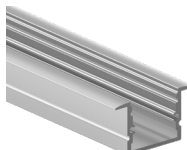


Lens	Clear	Half Frosted	Frosted
Transmission %	65%	58%	44%
Dotting*	CD	SD	ND

*At 100% brightness

NOT Compatible with
- XHO output

BR CHANNEL -BRC

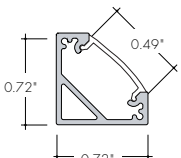
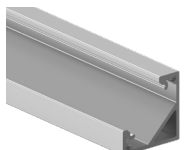


Lens	Clear	Half Frosted	Frosted
Transmission %	65%	58%	44%
Dotting*	CD	SD	ND

*At 100% brightness

NOT Compatible with
- XHO output

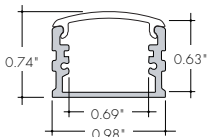
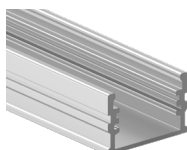
B45 CHANNEL -B45C



Lens	Clear	Half Frosted	Frosted
Transmission %	78%	68%	52%
Dotting*	CD	CD	SD

*At 100% brightness

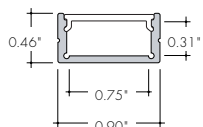
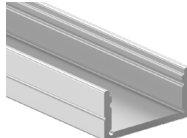
BX CHANNEL -BXC



Lens	Frosted
Transmission %	53%
Dotting*	ND

*At 100% brightness

BL CHANNEL -BLC

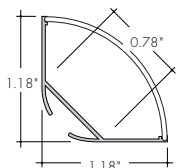
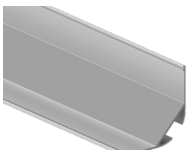


Lens	Clear	Half Frosted	Frosted
Transmission %	85%	76%	60%
Dotting*	CD	CD	CD

*At 100% brightness

NOT Compatible with
- XHO output

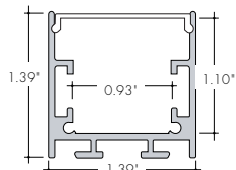
B45R CHANNEL -B45RC



Lens	Clear	Half Frosted	Frosted
Transmission %	93%	85%	73%
Dotting*	CD	CD	ND

*At 100% brightness

BK CHANNEL -BKC



Lens	Clear	Half Frosted	Frosted
Transmission %	62%	59%	45%
Dotting*	CD	SD	ND

*At 100% brightness

NOT Compatible with
- XHO output

Installation

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

Ordering

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

Led Dotting Reference

Use complete Dotting Chart Tool online for more dotting information

Dotting Chart Tool



I'm also click-able



CD - Clear Dotting



SD - Slight Dotting



ND - No Dotting

Power Consumption

Tested at full power with PS-UNI Series power supplies.

Nominal Length	BA42-SO		BA42-HO		BA42-VHO		BA42-XHO	
	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage
1	2.27	2.27	4.54	4.54	6.95	6.95	9.18	9.18
2	2.26	4.51	4.48	8.97	6.77	13.55	9.17	18.35
3	2.23	6.70	4.43	13.30	6.65	19.95	8.93	26.78
4	2.23	8.92	4.39	17.56	6.50	25.98	8.79	35.16
5	2.21	11.05	4.35	21.73	6.41	32.07	8.49	42.47
6	2.26	13.57	4.36	26.18	6.43	38.59	8.58	51.48
7	2.23	15.58	4.28	29.96	6.27	43.91	8.37	58.56
8	2.21	17.66	4.21	33.66	6.08	48.65	8.09	64.73
9	2.19	19.69	4.14	37.23	5.92	53.30	7.82	70.41
10	2.17	21.66	4.07	40.69	5.77	57.69	7.54	75.43
11	2.14	23.56	3.98	43.83	5.61	61.76	7.32	80.48
12	2.12	25.38	3.91	46.91	5.46	65.52	7.10	85.17
13	2.09	27.21	3.83	49.82	5.31	69.03	6.84	88.93
14	2.07	29.01	3.76	52.59	5.16	72.18	6.65	93.05
15	2.05	30.77	3.68	55.22	5.00	75.07		
16	2.02	32.35	3.61	57.74	4.86	77.77		
17	2.01	34.25	3.55	60.33	4.74	80.59		
18	1.99	35.80	3.47	62.41	4.60	82.87		
19	1.96	37.27	3.39	64.37	4.46	84.79		
20	1.94	38.75	3.31	66.18	4.33	86.66		
21	1.91	40.13	3.24	67.96	4.21	88.40		
22	1.89	41.48	3.16	69.57	4.09	90.05		
23	1.86	42.75	3.09	71.06	3.97	91.28		
24	1.83	44.00	3.02	72.48	3.86	92.62		
25	1.81	45.17	2.95	73.82				
26	1.78	46.29	2.89	75.05				
27	1.76	47.39	2.82	76.15				
28	1.74	48.64	2.76	77.39				
29	1.71	49.64	2.70	78.32				
30	1.68	50.52	2.64	79.23				
31	1.66	51.39						
32	1.63	52.27						
33	1.61	53.08						
34	1.58	53.85						
35	1.56	54.56						
36	1.54	55.31						
37	1.51	55.99						
38	1.49	56.62						
39	1.47	57.33						
40	1.45	57.91						
41	1.43	58.49						
42	1.40	59.00						
43	1.38	59.51						
44	1.36	59.95						
45	1.34	60.41						
46	1.32	60.84						
47	1.30	61.25						
48	1.28	61.64						
49	1.27	62.00						
50	1.25	62.39						

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

Power Supplies

See Power Supply instructions and spec sheet for wiring information.

For use with Static White

Ordering Code

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS-BA - Basics Power Supply, 120-277VAC	UNI - 0-10V, Phase Dimming	D - Dry	30 - 30 W 60 - 60 W 96 - 96 W	24 - 24 VDC

MODELS	PS-BA-UNI-D-30-24	PS-BA-UNI-D-60-24	PS-BA-UNI-D-96-24
Length	6.10"	7.93"	8.29"
Width	3.35"	3.35"	4.10"
Depth	1.33"	1.32"	1.59"

