



BA42



BA42 REEL

**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.

**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

**Life (L70)**

50,000 hours

**Warranty**

5 years



**Technical information**

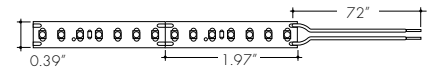
TYPE	BA42		
	SO	HO	VHO
<b>OUTPUT OPTIONS</b>			
Lumens Output (3000K)	196 lm/ft	373 lm/ft	539 lm/ft
Average Power Consumption (for a 4' section)	2.0 W/ft	4.0 W/ft	6.0 W/ft
Efficacy	98 lm/W	93 lm/W	90 lm/W
Cutting Increment (in)	1.97"		
Pitch Length	0.28"		
Max Run Length (in series to 30W)	14 ft	7 ft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

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

**Section Start/End Options**

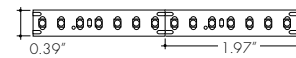
**SL**

Soldered lead wires (72")



**NC**

No connector



**Ordering code**

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

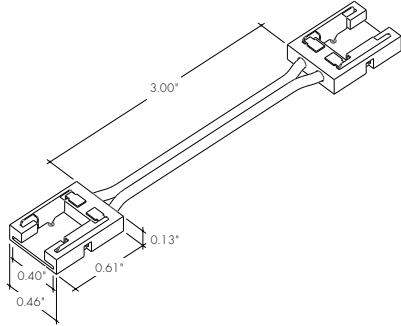
1 - R16, 16 ft reels include 3 each of LL-PFC-10-72 and LL-PJC-10-03  
 2 - R50, 50 ft reels include 6 each of LL-PFC-10-72 and LL-PJC-10-03  
 3 - Ordered in one foot increments. See chart above for max run length.

**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**

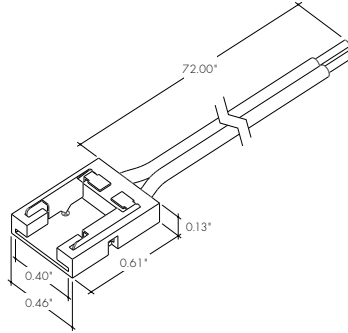
**LL-PJC-10-03**

Jumper minii connector with 3" wire for BA42 LED strip



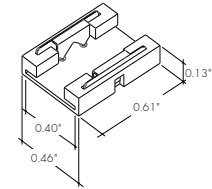
**LL-PFC-10-72**

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

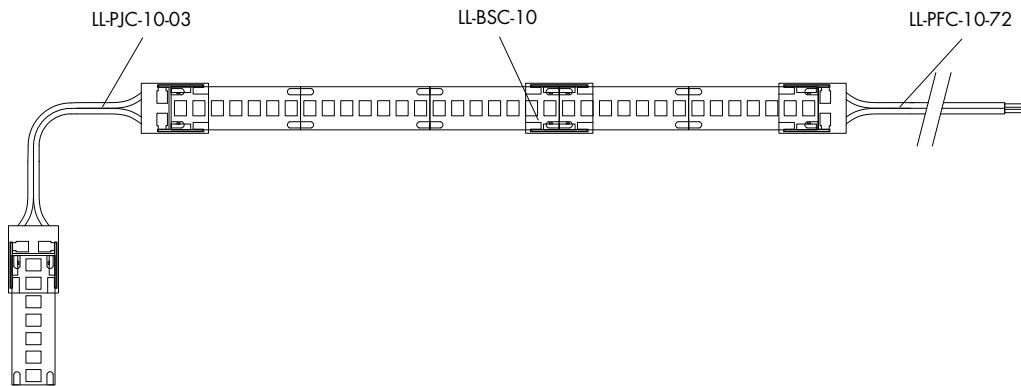


**LL-BSC-10**

Butt splice minii connector for BA42 LED strip



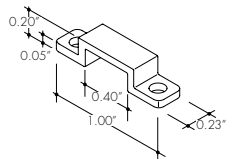
**Sample Layout**



**Accessories**

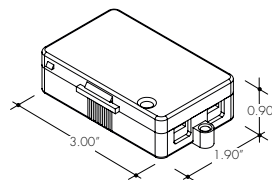
**CL1**

Mounting clip



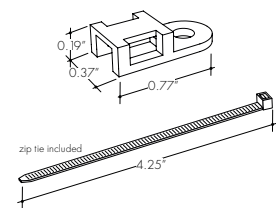
**LVSP-4T-BK**

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



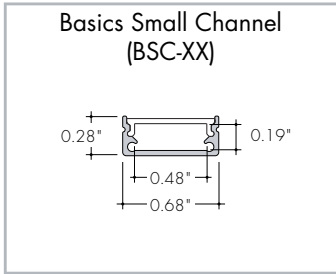
Clear



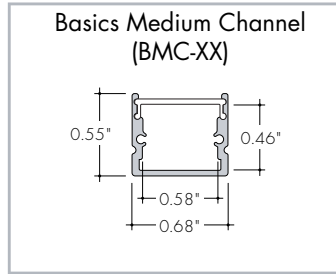
Half Frosted



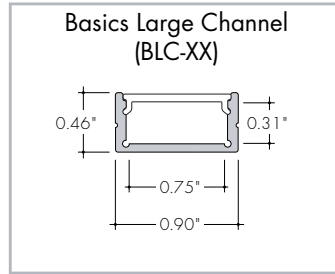
Frosted



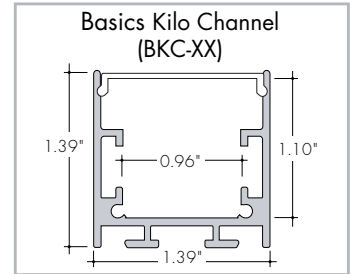
C	HF	F
82%	71%	54%



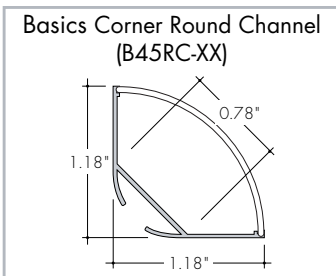
C	HF	F
75%	69%	53%



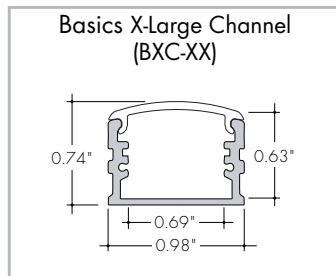
C	HF	F
83%	74%	58%



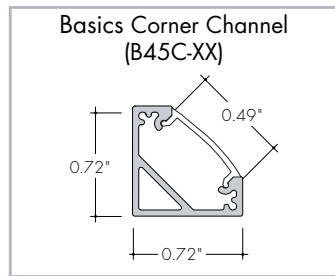
HF
59%



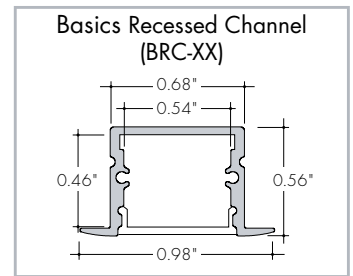
C	HF	F
93%	85%	73%



F
53%



C	HF	F
76%	68%	50%



C	HF	F
75%	69%	53%

**Installation**

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

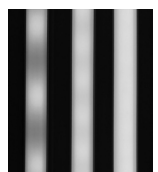
**Ordering**

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

**Led Dotting per Extrusion with BA42**

different output options may slightly vary

Extrusion	Clear Lens	Half-Frosted Lens	Frosted Lens
BSC	CD	CD	CD
BMC	CD	SD	ND
BLC	CD	CD	SD
BXC	-	-	ND
B45RC	CD	CD	ND
BKC	-	ND	-
B45C	CD	CD	SD
BRC	CD	SD	ND



CD - Clear Dotting  
SD - Slight Dotting  
ND - No Dotting

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

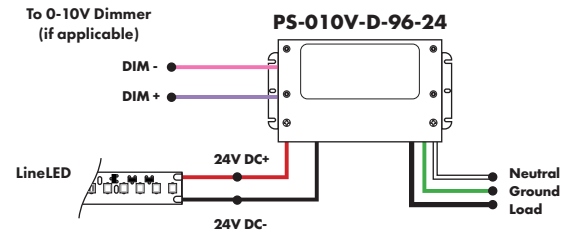
**Power Supplies**

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

**0-10V - 5% Dimming**

MODEL	INPUT CONTROL	LOCATION	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	010V - 0-10V Dimming	D - Dry	96 - 96 W	24 - 24 VDC

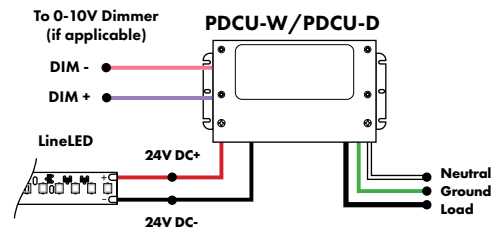
MODELS	96W
Length	8.29"
Width	4.10"
Depth	1.59"



**Universal Power Supply 1% 120VAC - 277VAC**

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W	24 - 24 VDC
	60 - 60 W	
	96 - 96 W	
	3X96 - 3X96 W	
PDCU-W - IP66 Wet Series	96 - 96 W	24 - 24 VDC
	3X96 - 3X96 W	

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%. For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.



MODEL	PDCU-W-96W	PDCU-W-3X96W	PDCU-D-30W	PDCU-D-60W	PDCU-D-96W	PDCU-D-3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

**Non-Dimming Power Supply 120VAC - 277VAC**

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

MODELS	96W
Length	8.25"
Width	3.75"
Depth	1.63"

