

LineLED Vibrant Color Series LLVC140-IP20



* MFG Model Number: LL42-XX



Features

Line LED LL series is a small profile, high performance LED strip. It offers excellent color quality with 95+ CRI and 95+ R9 values across the entire range of outputs, while sustaining efficacy above 90 lumens per watt. The simple range consists of just two configurations, 140 LEDs per meter, with multiple outputs from each, providing a range from 400 to over 1000 lumens per meter. Industry-best color consistency is ensured with single-binned LEDs.

Mounting

LED strip is equipped with 3M™ adhesive tape.

Applications

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

Approvals

CE, UKCA, UL, Class 2

Operating voltage

24 VDC

Average Life (L70)

50,000 hours

Warranty

7 years



RoHS

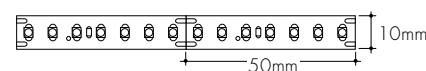
CE

UKCA



Technical information

TYPE	LLVC140-IP20		
OUTPUT OPTIONS	SO	HO	VHO
Lumens Output (3000K)	433 lm/m	728 lm/m	1056 lm/m
Average Power Consumption	4.6 W/m	7.9 W/m	11.8 W/m
Efficacy	94 lm/W	93 lm/W	89 lm/W
Cutting Increment (mm)	50.0 mm		
Pitch Length	7.0 mm		
Max Run Length (in series)	16.7 m	13.7 m	10.6 m
Dimensions	10 mm W x 2.3 mm H		
Ambient Operating Temperature Range	-20° C - 40° C		



CCT	Multiplier (reference - 3000K)	CRI	TM-30		
			R _f	R _g	R ₉
2200K	0.70	96	95	101	89
2400K	0.72	98	97	101	91
2700K	0.74	97	96	101	91
3000K	1.00	97	95	104	97
3500K	1.02	97	94	105	97
4100K	1.07	97	90	99	97

Ordering code

MODEL	OUTPUT	CCT	REEL SIZE
LLVC140-IP20 - LineLED Vibrant Color, Dry Location	SO - Standard HO - High VHO - Very High	22K - 2200K 24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 41K - 4100K	R10m - Reel, 10 meter



LineLED Vibrant Color Series LLVC140-IP20

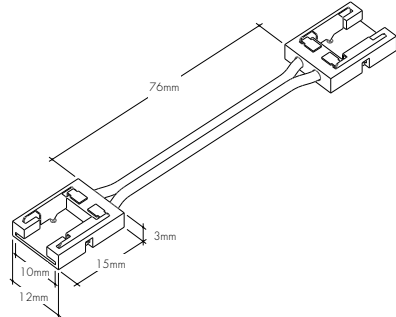
Minii Connectors

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

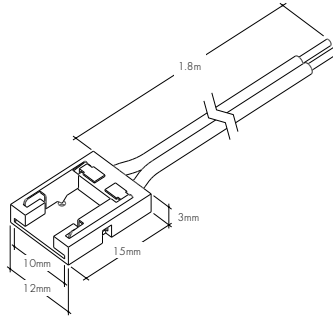
LL-PJC-10

Jumper minii connector with 76mm wire for LLVC140-IP20 LED strip



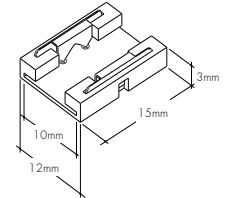
LL-PFC-10-1.8M

Power feed minii connector with 1.8m wire for LLVC140-IP20 LED strip

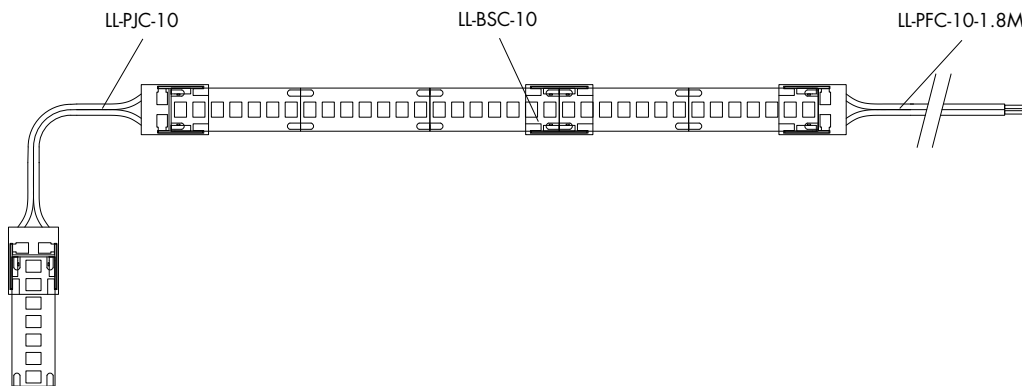


LL-BSC-10

Butt splice minii connector for LLVC140-IP20 LED strip



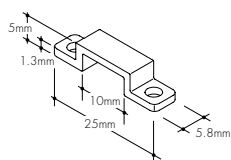
Sample Layout



Accessories

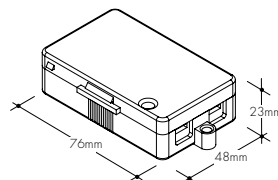
CL1

Mounting clip



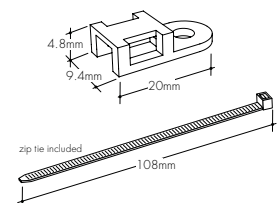
LVSP-IP20-4T-BK

Low Voltage, 4 Terminal Splice Box, Black



LL-ZIP

Cable/Wire Strain Relief Clip



Recommended every 300mm when LineLED strip is facing down



LineLED Vibrant Color Series LLVC140-IP20

Lens Options / Light Transmission



Clear



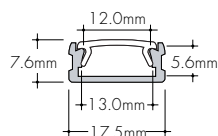
Half (50%)
Frosted



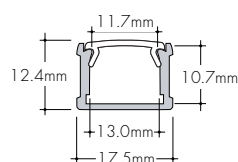
Frosted



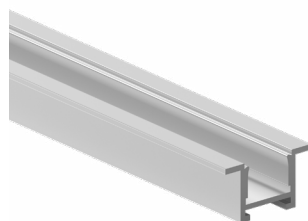
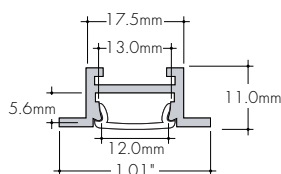
KS Channel (KSC-XX)



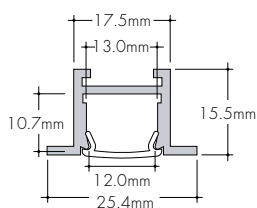
KM Channel (KMC-XX)



KRS Channel (KRSC-XX)



KRM Channel (KRMC-XX)



Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KSC-KS Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	FC-Fixed Clip FC45-Fixed Clip 45°	SA-Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.

Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KMC-KM Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	FC-Fixed Clip FC45-Fixed Clip 45°	SA-Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.

Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KRSC-KRS Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	HS-Hard Surface Mounting Bracket GS-Gypsum Surface Mounting Bracket	SA-Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.

Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KRMC-KRM Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	HS-Hard Surface Mounting Bracket GS-Gypsum Surface Mounting Bracket	SA-Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.

Installation

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

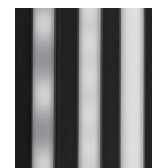
Ordering

Extrusion are sold separately.

Led Dotting per Extrusion

using the frosted lens option

Extrusion	LLVC140-IP20	LLVC240-IP20
KSC	CD	ND
KMC	ND	ND
KRSC	CD	ND
KRMC	ND	ND



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



Lens Options / Light Transmission



Clear



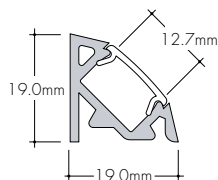
Half (50%)
Frosted



Frosted



K45V Channel (K45V-XX)



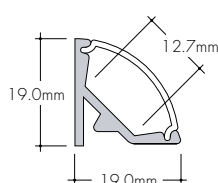
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
K45VC - K45V Channel	2M - 2 meter	C - Clear HF - Half Frosted F - Frosted	CB - Concealed Bracket	SA - Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.



K45R Channel (K45R-XX)



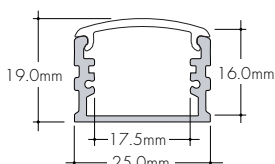
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
K45RC - K45R Channel	2M - 2 meter	C - Clear HF - Half Frosted F - Frosted	CB - Concealed Bracket	SA - Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.



Basics X-Large Channel (BXC-XX)



Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
BXC - Basics X-Large Channel	2M - 2 meter	F - Frosted	FC - Fixed Clip	SA - Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.

Installation

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

Ordering

Extrusion are sold separately.

Led Dotting per Extrusion

using the frosted lens option

Extrusion	LLVC140-IP20	LLVC240-IP20
K45VC	SD	ND
K45RC	ND	ND
BXC	ND	ND



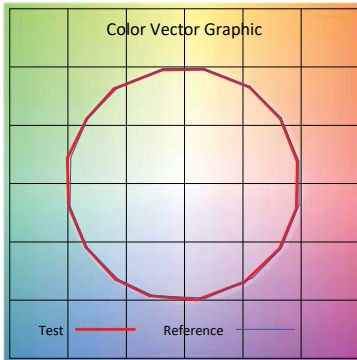
CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting



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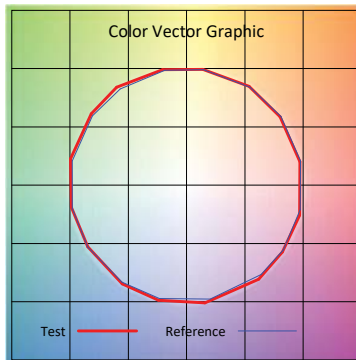
TM-30-15: Data

2200K



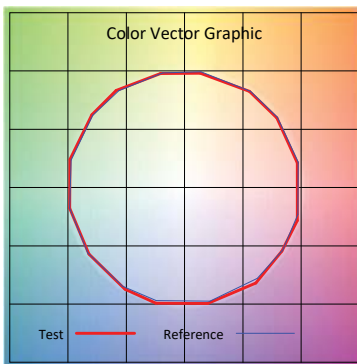
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	96.8	-1.4%	-0.2%
2	97.4	-0.7%	-0.3%
3	96.2	-0.5%	-0.4%
4	97.5	-0.8%	-1.0%
5	97.3	-0.8%	1.1%
6	95.4	1.0%	2.8%
7	98.1	0.5%	0.6%
8	95.7	2.8%	1.3%
9	97.0	1.1%	-0.8%
10	96.4	0.6%	-1.6%
11	96.0	1.3%	-2.2%
12	94.7	0.8%	-3.0%
13	92.0	0.2%	-7.8%
14	87.2	-1.1%	-7.9%
15	96.6	-0.9%	-1.7%
16	94.1	-1.6%	-3.2%

2400K



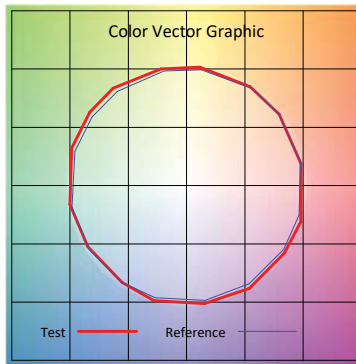
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	97.3	-0.7%	-0.6%
2	98.0	-0.7%	0.1%
3	96.7	0.1%	1.2%
4	97.4	0.0%	0.5%
5	97.0	1.0%	1.9%
6	95.0	2.9%	1.6%
7	96.4	1.7%	-0.9%
8	96.2	1.9%	-1.3%
9	97.2	0.4%	-1.1%
10	97.9	-0.3%	-0.3%
11	96.9	1.2%	1.2%
12	94.8	1.7%	-0.4%
13	93.6	2.2%	-4.9%
14	92.7	2.2%	-3.9%
15	96.7	0.4%	-2.0%
16	92.9	0.3%	-4.7%

2700K



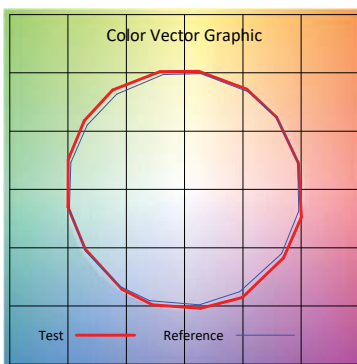
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	97.1	-1.0%	-0.6%
2	98.2	-0.7%	-0.2%
3	97.0	-0.5%	0.8%
4	97.1	-1.2%	0.2%
5	96.9	-0.1%	1.9%
6	96.2	1.7%	1.8%
7	97.3	0.8%	-0.1%
8	97.9	1.0%	-0.3%
9	98.2	-0.1%	-0.1%
10	96.8	-0.2%	1.5%
11	94.8	0.9%	3.0%
12	94.4	2.4%	0.2%
13	95.7	1.6%	-2.4%
14	94.2	2.7%	-3.1%
15	96.5	-0.0%	-1.4%
16	92.3	0.7%	-5.3%

3000K



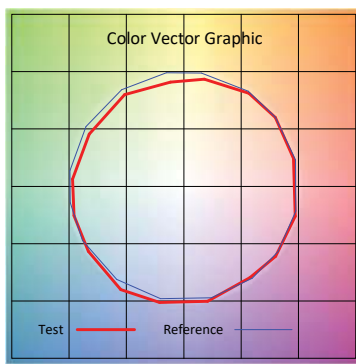
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	95.9	0.2%	-1.7%
2	97.4	0.2%	-0.2%
3	96.3	0.7%	1.2%
4	95.1	1.9%	1.6%
5	94.9	2.3%	2.1%
6	92.6	4.3%	1.2%
7	92.1	3.9%	-2.2%
8	93.1	3.3%	-2.3%
9	94.8	1.2%	-2.8%
10	94.6	-0.5%	-2.7%
11	96.2	-0.1%	1.0%
12	93.7	2.7%	-0.3%
13	95.7	2.5%	-1.3%
14	94.2	3.6%	-2.1%
15	94.2	2.2%	-2.5%
16	92.0	2.5%	-5.3%

3500K



		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	96.4	0.5%	-1.5%
2	97.7	0.3%	0.2%
3	94.7	1.0%	2.2%
4	94.4	1.7%	2.2%
5	93.4	3.0%	2.3%
6	91.4	5.0%	1.0%
7	92.7	4.1%	-1.6%
8	94.1	2.8%	-2.1%
9	95.0	0.9%	-2.1%
10	95.9	-0.8%	-1.6%
11	93.5	1.1%	3.4%
12	91.7	3.1%	3.0%
13	95.3	3.1%	0.5%
14	93.0	5.3%	-0.8%
15	93.5	3.4%	-2.1%
16	90.9	3.2%	-4.6%

4100K



		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	91.5	-1.3%	1.6%
2	95.3	-0.1%	-0.4%
3	95.4	-1.0%	-1.3%
4	89.1	-4.8%	-3.5%
5	86.6	-8.7%	-2.1%
6	91.9	-5.0%	0.5%
7	87.8	-6.2%	4.0%
8	86.7	-3.5%	6.7%
9	82.7	-1.2%	11.7%
10	81.6	1.0%	10.5%
11	84.5	5.4%	8.0%
12	92.6	3.3%	-0.3%
13	90.9	2.3%	3.9%
14	92.6	-1.5%	-1.5%
15	86.6	0.5%	-4.4%
16	86.7	0.5%	-4.7%

