



* MFG Model Number: LL72-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, 240 LEDs per meter, with multiple outputs from each, providing a range from 900 to over 2000 lumens per meter. Industry-best color consistency is ensured with single-binned LEDs.

Mounting

LLED 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





0 0 000.0 0 0 0 0 0 0 0 0





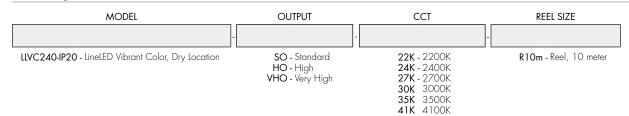
Technical information

TYPE	LLVC240-IP20		
OUTPUT OPTIONS	so	но	VHO
Lumens Output (3000K)	892 lm/m	1450 lm/m	1762 lm/m
Average Power Consumption	9 W/m	15.7 W/m	19.7 W/m
Efficacy	97 lm/W	92 lm/W	90 lm/W
Cutting Increment (mm)	29.4 mm		
Pitch Length	4.3 mm		
Max Run Length (in series)	12.0 m	9.4 m	6.7 m
Dimensions	10 mm W x 2.3 mm H		
Ambient Operating Temperature Range	-20° C - 40° C		

*VHO outpu	t must be p	aired with	an aluminum	channel

ССТ	Multiplier	TM-30				
CCI	(reference - 3000K)	CRI	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









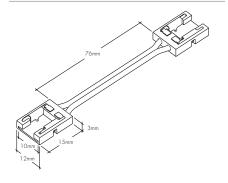
Minii Connectors

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

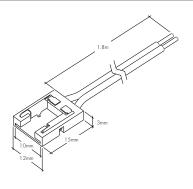
LL-PJC-10

Jumper minii connector with 76mm wire for LLVC240-IP20 LED strip



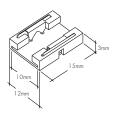
LL-PFC-10-1.8M

Power feed minii connector with 1.8m wire for LLVC240-IP20 LED strip

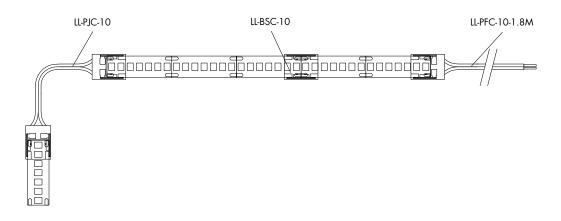


LL-BSC-10

Butt splice minii connector for LLVC240-IP20 LED strip



Sample Layout



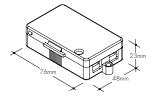
Accessories

CL1

Mounting clip

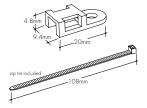


Low Voltage, 4 Terminal Splice Box, Black



LL-ZIP

Cable/Wire Strain Relief Clip



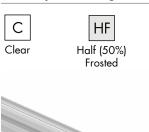
Recommended every 300mm when LineLED strip is facing down







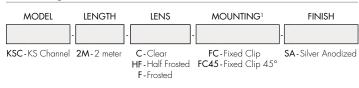
Lens Options / Light Transmission





KS Channel (KSC-XX)

Ordering code

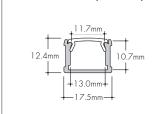


1 - Extrusion comes with 4 selected clips and 2 end caps.

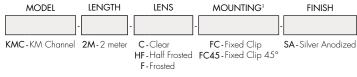




KM Channel (KMC-XX)





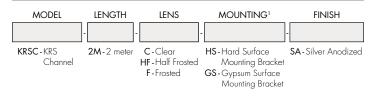


1 - Extrusion comes with 4 selected clips and 2 end caps.



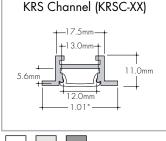


Ordering code



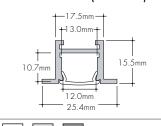
1 - Extrusion comes with 4 selected clips and 2 end caps.







KRM Channel (KRMC-XX) -17.5mm



C HF F

Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
	-		-	-
KRMC-KRM Channe		C-Clear HF-Half Frosted		SA-Silver Anodized
Chamic		F-Frosted	GS-Gypsum Surface Mounting Bracket	

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
кмс	ND	ND
KRSC	CD	ND
KRMC	ND	ND



CD - Clear Dotting

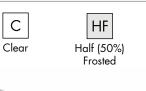
SD - Slight Dotting



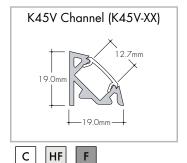




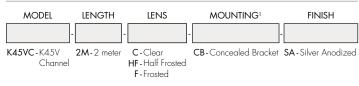
Lens Options / Light Transmission





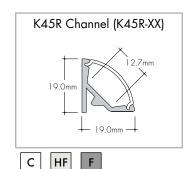


Ordering code

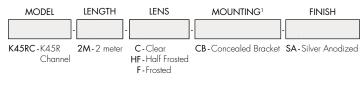


1 - Extrusion comes with 4 selected clips and 2 end caps.



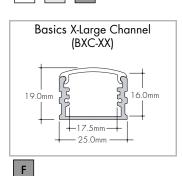


Ordering code

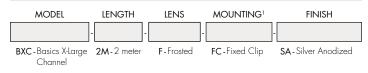


1 - Extrusion comes with 4 selected clips and 2 end caps.





Ordering code



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
вхс	ND	ND



CD - Clear Dotting **SD** - Slight Dotting

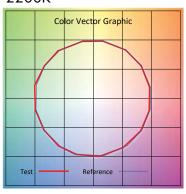
ND - No Dotting





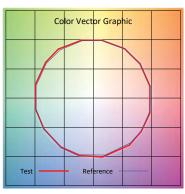
TM-30-15: Data

2200K



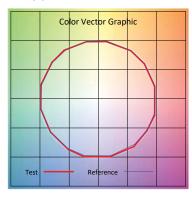
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	96.8	-1.4%	-0.2%
2	97.4	-0.7%	-0.3%
3	96.2	-0.5%	-0.4%
4	97.5	-0.8%	-1.0%
5	97.3	-0.8%	1.1%
6	95.4	1.0%	2.8%
7	98.1	0.5%	0.6%
8	95.7	2.8%	1.3%
9	97.0	1.1%	-0.8%
10	96.4	0.6%	-1.6%
11	96.0	1.3%	-2.2%
12	94.7	0.8%	-3.0%
13	92.0	0.2%	-7.8%
14	87.2	-1.1%	-7.9%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

2400K



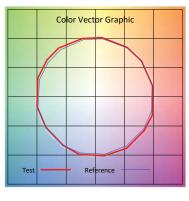
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	97.3	-0.7%	-0.6%
2	98.0	-0.7%	0.1%
3	96.7	0.1%	1.2%
4	97.4	0.0%	0.5%
5	97.0	1.0%	1.9%
6	95.0	2.9%	1.6%
7	96.4	1.7%	-0.9%
8	96.2	1.9%	-1.3%
9	97.2	0.4%	-1.1%
10	97.9	-0.3%	-0.3%
11	96.9	1.2%	1.2%
12	94.8	1.7%	-0.4%
13	93.6	2.2%	-4.9%
14	92.7	2.2%	-3.9%
15	96.7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

2700K



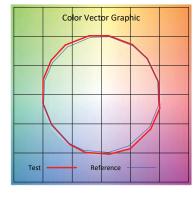
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	97.1	-1.0%	-0.6%
2	98.2	-0.7%	-0.2%
3	97.0	-0.5%	0.8%
4	97.1	-1.2%	0.2%
5	96.9	-0.1%	1.9%
6	96.2	1.7%	1.8%
7	97.3	0.8%	-0.1%
8	97.9	1.0%	-0.3%
9	98.2	-0.1%	-0.1%
10	96.8	-0.2%	1.5%
11	94.8	0.9%	3.0%
12	94.4	2.4%	0.2%
13	95.7	1.6%	-2.4%
14	94.2	2.7%	-3.1%
15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

3000K



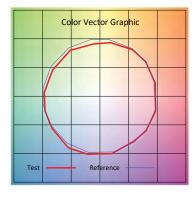
		Graphic Shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	95.9	0.2%	-1.7%
2	97.4	0.2%	-0.2%
3	96.3	0.7%	1.2%
4	95.1	1.9%	1.6%
5	94.9	2.3%	2.1%
6	92.6	4.3%	1.2%
7	92.1	3.9%	-2.2%
8	93.1	3.3%	-2.3%
9	94.8	1.2%	-2.8%
10	94.6	-0.5%	-2.7%
11	96.2	-0.1%	1.0%
12	93.7	2.7%	-0.3%
13	95.7	2.5%	-1.3%
14	94.2	3.6%	-2.1%
15	94.2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



