

Economy

RA 90+ SMD3528 Series

Product Features

- 1. RA 90+, conform to the requirement of supplementary lighting.
- 2. Abundant CCT option: 2700K|3000K|3500K|4000K|5000K|6500K.
- 3. 60LEDs/96LEDs/112LEDs/120LEDs/180LEDs/182LEDs/238LEDs/240LEDs per meter for option.
- 4. 8MM,10MM,14MM FPC width for option.
- 5. White,brown,bblack FPC for option,but our standard FPC color is white.
- 6. Low consumption, excellent and reliable stability.
- 7. Long lifetime (>50 000h).

EST-FS3528C-240-24-Y

① ② ③ ④ ⑤

Color

2700 K	3000 K	3500 K
4000 K	5000 K	6500 K

Input DC Voltage

24VDC | 12VDC

LED Type

SMD3528

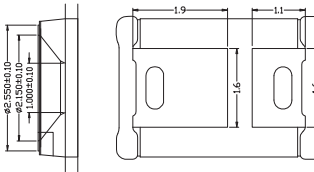
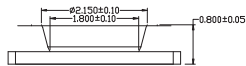
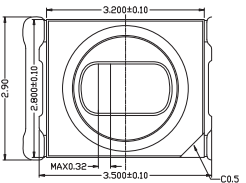
LED Qty.per meter

240 | 180 | 176 | 120
112 | 96 | 60

IP Index

IP20 | IP54 | IP65
IP67 | IP68

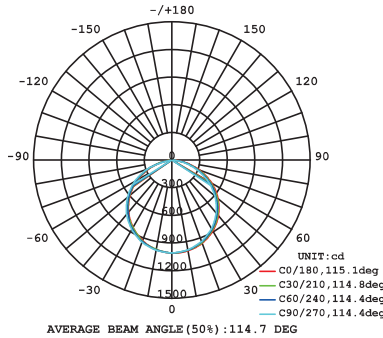
Model	CCT Wave lengths	Luminous Flux		I _F	V _F		CRI(Ra)
		Min.	Max.		Current	Max.	
 SMD3528	2700K	16LM	18LM	60mA	3.0V	3.2V	90+
	3000K	16LM	18LM	60mA	3.0V	3.2V	90+
	3500K	18LM	20LM	60mA	3.0V	3.2V	90+
	4000K	18LM	20LM	60mA	3.0V	3.2V	90+
	5000K	18LM	20LM	60mA	3.0V	3.2V	90+
	6500K	18LM	20LM	60mA	3.0V	3.2V	90+
	620-625 NM NM	---	---	60mA	3.0V	3.2V	---
	585-590 NM NM	---	---	60mA	3.0V	3.2V	---
	517-522 NM NM	---	---	60mA	3.0V	3.2V	---
	465-470 NM NM	---	---	60mA	3.0V	3.2V	---



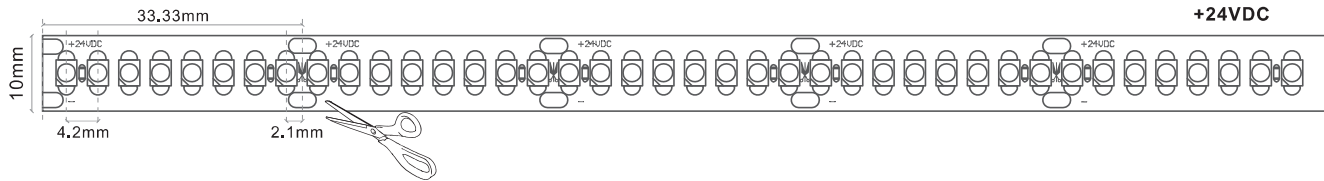
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-240-24-Y(High Efficiency)

Model	Color temp. Wave lengths	LM/M	Power/M	Light efficiency	CRI (Ra)	FPC copper
ES-FS3528WW-240-24-Y	2700K	2208LM	<19.2W	115LM/W	90+	3OZ
ES-FS3528WW-240-24-Y	3000K	2208LM	<19.2W	115LM/W	90+	3OZ
ES-FS3528WW-240-24-Y	3500K	2208LM	<19.2W	115LM/W	90+	3OZ
ES-FS3528NW-240-24-Y	4000K	2323LM	<19.2W	121LM/W	90+	3OZ
ES-FS3528NW-240-24-Y	5000K	2323LM	<19.2W	121LM/W	90+	3OZ
ES-FS3528PW-240-24-Y	6500K	2246LM	<19.2W	117LM/W	90+	3OZ
ES-FS3528R-240-24-Y	620-625 NM NM	---	<19.2W	---	---	3OZ
ES-FS3528Y-240-24-Y	585-590 NM NM	---	<19.2W	---	---	3OZ
ES-FS3528G-240-24-Y	517-522 NM NM	---	<19.2W	---	---	3OZ
ES-FS3528B-240-24-Y	465-470 NM NM	---	<19.2W	---	---	3OZ



Strip length: CE:500CM UL:16.4FT



IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue



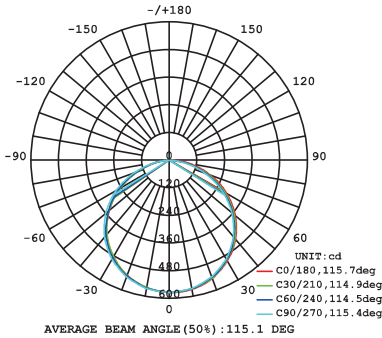
AL. profiles (mm)

 ES-LL017009	 ES-LL024011	 ES-LL017015	 ES-LL013006
 ES-LL023009	 ES-LL030011	 ES-LL023015	 ES-LL013012
 ES-LL016016	 ES-LL020020-1	 ES-LL016015	 ES-LL025025
 ES-LL030030	 ES-LL010015	 ES-LL020020	
 ES-LL018018		 ES-LL010010	

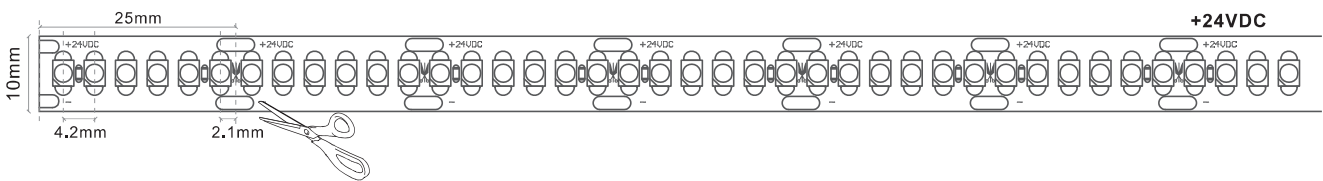
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-240-24-Y

Model	Color temp. Wave lengths	LM/M	Power/M	CRI (Ra)	FPC copper
ES-FS3528WW-240-24-Y	2700K	1564LM	<19.2W	90+	3OZ
ES-FS3528WW-240-24-Y	3000K	1564LM	<19.2W	90+	3OZ
ES-FS3528WW-240-24-Y	3500K	1564LM	<19.2W	90+	3OZ
ES-FS3528NW-240-24-Y	4000K	1600LM	<19.2W	90+	3OZ
ES-FS3528NW-240-24-Y	5000K	1600LM	<19.2W	90+	3OZ
ES-FS3528PW-240-24-Y	6500K	1650LM	<19.2W	90+	3OZ
ES-FS3528R-240-24-Y	620-625 NM NM	---	<19.2W	---	3OZ
ES-FS3528Y-240-24-Y	585-590 NM NM	---	<19.2W	---	3OZ
ES-FS3528G-240-24-Y	517-522 NM NM	---	<19.2W	---	3OZ
ES-FS3528B-240-24-Y	465-470 NM NM	---	<19.2W	---	3OZ



Strip length: CE:500CM UL:16.4FT



IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue

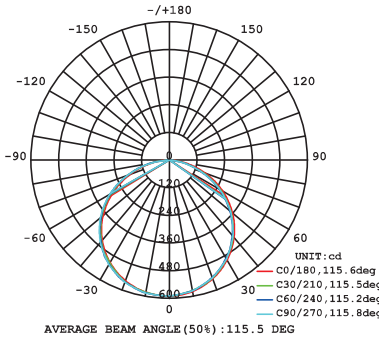


AL. profiles (mm)

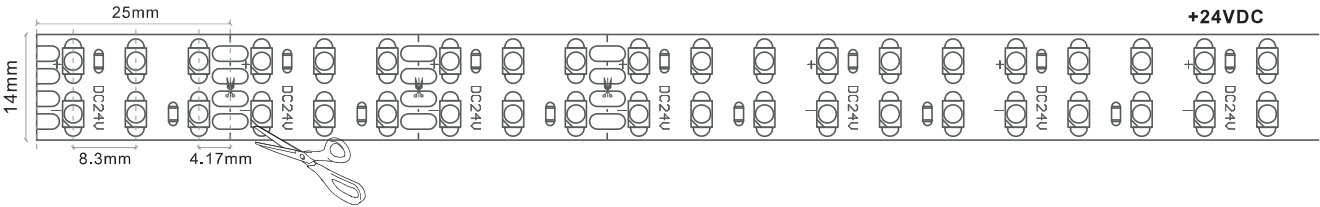
 ES-LL017009	 ES-LL024011	 ES-LL017015	 ES-LL013006
 ES-LL023009	 ES-LL030011	 ES-LL023015	 ES-LL013012
 ES-LL016016	 ES-LL020020-1	 ES-LL016015	 ES-LL025025
 ES-LL030030	 ES-LL010015	 ES-LL020020	
 ES-LL018018		 ES-LL010010	

Part Number:EST-FS3528C-240H-24-Y

Model	Color temp. Wave lengths	LM/M	Power/M	CRI (Ra)	FPC copper
ES-FS3528WW-240H-24-Y	2700K	1564LM	<19.2W	90+	3OZ
ES-FS3528WW-240H-24-Y	3000K	1564LM	<19.2W	90+	3OZ
ES-FS3528WW-240H-24-Y	3500K	1564LM	<19.2W	90+	3OZ
ES-FS3528NW-240H-24-Y	4000K	1600LM	<19.2W	90+	3OZ
ES-FS3528NW-240H-24-Y	5000K	1600LM	<19.2W	90+	3OZ
ES-FS3528PW-240H-24-Y	6500K	1650LM	<19.2W	90+	3OZ
ES-FS3528R-240H-24-Y	620-625 NM NM	---	<19.2W	---	3OZ
ES-FS3528Y-240H-24-Y	585-590 NM NM	---	<19.2W	---	3OZ
ES-FS3528G-240H-24-Y	517-522 NM NM	---	<19.2W	---	3OZ
ES-FS3528B-240H-24-Y	465-470 NM NM	---	<19.2W	---	3OZ



Strip length: CE:500CM UL:16.4FT



IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue

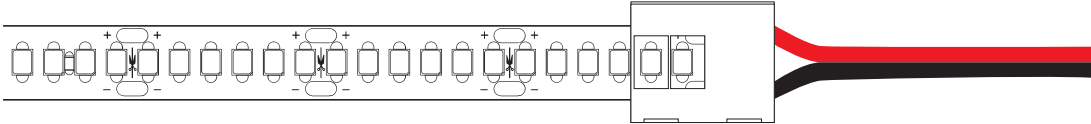


AL. profiles (mm)

Connector with cables



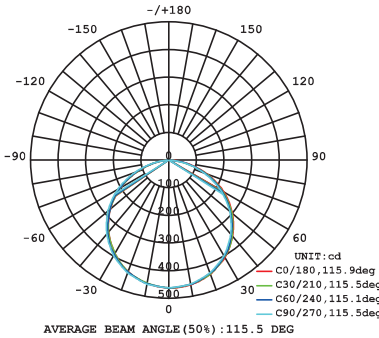
Suitable for SMD3528/2835,one meter with 240LED or 238LED
Item:ES-FS3528C-240-24-Y,ES-FS3528C-238-24-Y,ES-FS2835C-240-24-Y
Max.Current: 4A



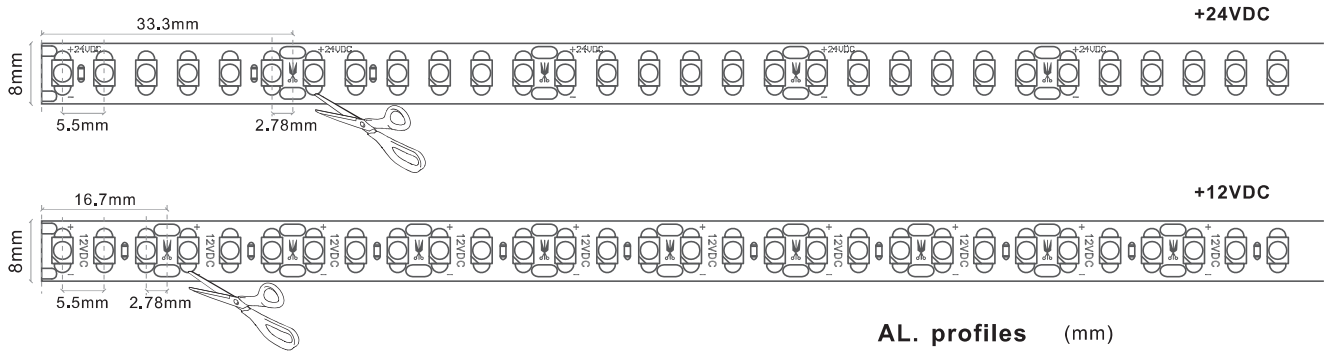
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-180-24-Y
Part Number:EST-FS3528C-180-12-Y

Model	Color temp. Wave lengths	LM/M	Power/M	CRI (Ra)	FPC copper
ES-FS3528WW-180-24-Y	2700K	1026LM	<14.4W	90+	3OZ
ES-FS3528WW-180-24-Y	3000K	1026LM	<14.4W	90+	3OZ
ES-FS3528WW-180-24-Y	3500K	1026LM	<14.4W	90+	3OZ
ES-FS3528NW-180-24-Y	4000K	1100LM	<14.4W	90+	3OZ
ES-FS3528NW-180-24-Y	5000K	1100LM	<14.4W	90+	3OZ
ES-FS3528PW-180-24-Y	6500K	1150LM	<14.4W	90+	3OZ
ES-FS3528R-180-24-Y	620-625 NM NM	---	<14.4W	---	3OZ
ES-FS3528Y-180-24-Y	585-590 NM NM	---	<14.4W	---	3OZ
ES-FS3528G-180-24-Y	517-522 NM NM	---	<14.4W	---	3OZ
ES-FS3528B-180-24-Y	465-470 NM NM	---	<14.4W	---	3OZ



Strip length: CE:500CM UL:22.63FT(24V) | 13.12FT(12V)



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



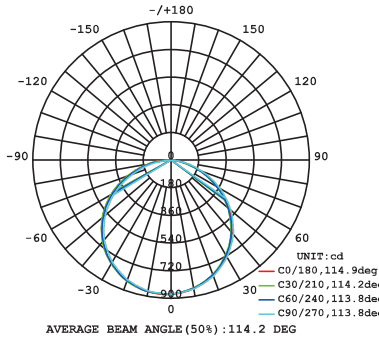
AL. profiles (mm)

ES-LL017009	ES-LL024011	ES-LL017015	ES-LL013006
ES-LL023009	ES-LL030011	ES-LL023015	ES-LL013012
ES-LL016016	ES-LL020020-1	ES-LL016015	ES-LL025025
ES-LL030030	ES-LL010015	ES-LL020020	
ES-LL018018	ES-LL010010		

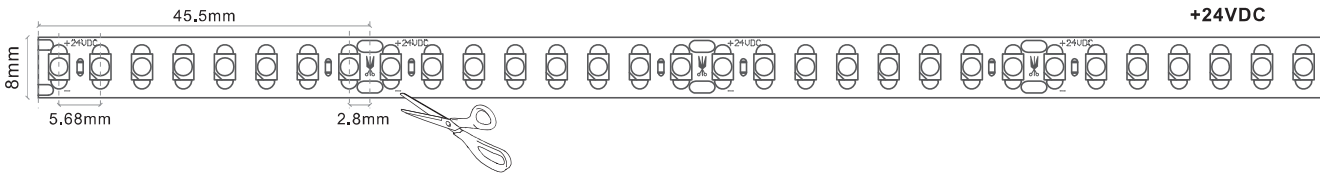
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-176-24-Y

Model	Color temp. Wave lengths	LM/M	Power/M	Light efficiency	CRI (Ra)	FPC copper
ES-FS3528WW-176-24-Y	2700K	1584LM	<14.4W	110LM/W	90+	3OZ
ES-FS3528WW-176-24-Y	3000K	1584LM	<14.4W	110LM/W	90+	3OZ
ES-FS3528WW-176-24-Y	3500K	1642LM	<14.4W	114LM/W	90+	3OZ
ES-FS3528NW-176-24-Y	4000K	1699LM	<14.4W	118LM/W	90+	3OZ
ES-FS3528NW-176-24-Y	5000K	1728LM	<14.4W	120LM/W	90+	3OZ
ES-FS3528PW-176-24-Y	6500K	1699LM	<14.4W	118LM/W	90+	3OZ
ES-FS3528R-176-24-Y	620-625 NM NM	---	<14.4W	---	---	3OZ
ES-FS3528Y-176-24-Y	585-590 NM NM	---	<14.4W	---	---	3OZ
ES-FS3528G-176-24-Y	517-522 NM NM	---	<14.4W	---	---	3OZ
ES-FS3528B-176-24-Y	465-470 NM NM	---	<14.4W	---	---	3OZ



Strip length: CE:500CM UL:16.4FT



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



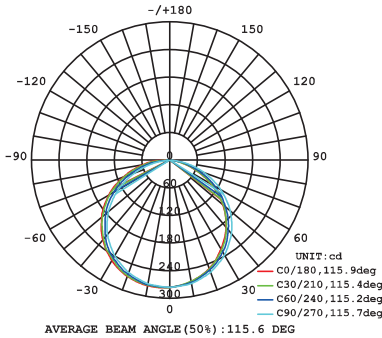
AL. profiles (mm)

ES-LL017009	ES-LL024011	ES-LL017015	ES-LL013006
ES-LL023009	ES-LL030011	ES-LL023015	ES-LL013012
ES-LL016016	ES-LL020020-1	ES-LL016015	ES-LL025025
ES-LL030030	ES-LL010015	ES-LL020020	
ES-LL018018	ES-LL010010		

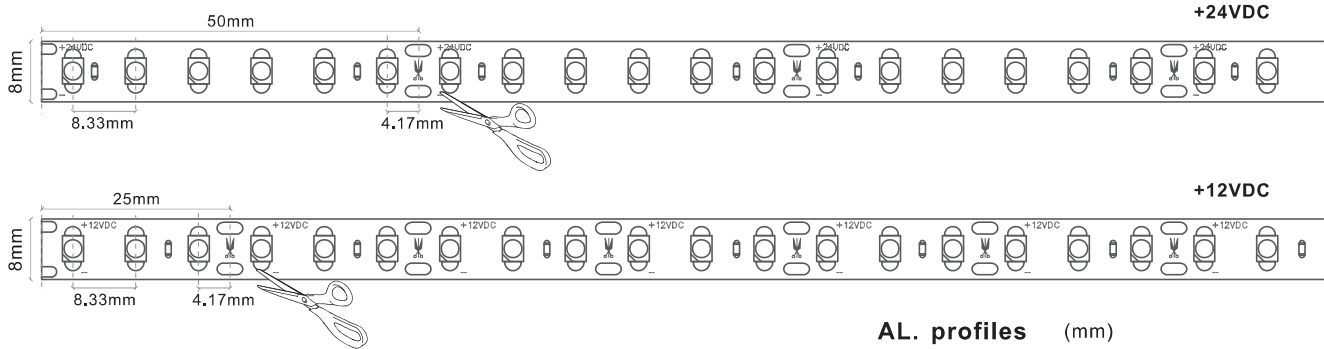
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-120-24-Y
Part Number:EST-FS3528C-120-12-Y

Model	Color temp. Wave lengths	LM/M	Power/M	CRI (Ra)	FPC copper
ES-FS3528WW-120-24-Y	2700K	740LM	<9.6W	90+	3OZ
ES-FS3528WW-120-24-Y	3000K	740LM	<9.6W	90+	3OZ
ES-FS3528WW-120-24-Y	3500K	740LM	<9.6W	90+	3OZ
ES-FS3528NW-120-24-Y	4000K	768LM	<9.6W	90+	3OZ
ES-FS3528NW-120-24-Y	5000K	768LM	<9.6W	90+	3OZ
ES-FS3528PW-120-24-Y	6500K	780LM	<9.6W	90+	3OZ
ES-FS3528R-120-24-Y	620-625 NM NM	---	<9.6W	---	3OZ
ES-FS3528Y-120-24-Y	585-590 NM NM	---	<9.6W	---	3OZ
ES-FS3528G-120-24-Y	517-522 NM NM	---	<9.6W	---	3OZ
ES-FS3528B-120-24-Y	465-470 NM NM	---	<9.6W	---	3OZ



Strip length: CE:500CM UL:32.8FT(24V) | 19.69FT(12V)



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



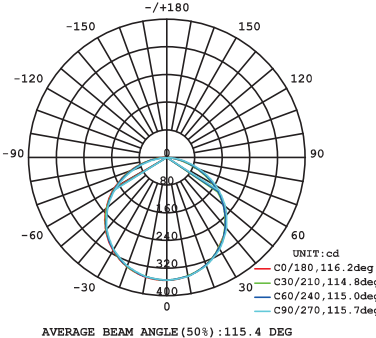
AL. profiles (mm)

 ES-LL017009	 ES-LL024011	 ES-LL017015	 ES-LL013006
 ES-LL023009	 ES-LL030011	 ES-LL023015	 ES-LL013012
 ES-LL016016	 ES-LL020020-1	 ES-LL016015	 ES-LL025025
 ES-LL030030	 ES-LL010015	 ES-LL020020	
 ES-LL018018		 ES-LL010010	

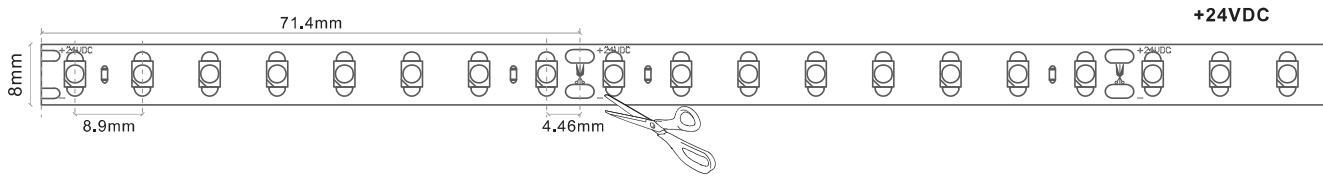
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-112-24-Y

Model	Color temp. Wave lengths	LM/M	Power/M	Light efficiency	CRI (Ra)	FPC copper
ES-FS3528WW-112-24-Y	2700K	1037LM	<9.6W	108LM/W	90+	3OZ
ES-FS3528WW-112-24-Y	3000K	1056LM	<9.6W	110LM/W	90+	3OZ
ES-FS3528WW-112-24-Y	3500K	1056LM	<9.6W	110LM/W	90+	3OZ
ES-FS3528NW-112-24-Y	4000K	1113LM	<9.6W	116LM/W	90+	3OZ
ES-FS3528NW-112-24-Y	5000K	1113LM	<9.6W	116LM/W	90+	3OZ
ES-FS3528PW-112-24-Y	6500K	1065LM	<9.6W	111LM/W	90+	3OZ
ES-FS3528R-112-24-Y	620-625 NM NM	---	<9.6W	---	---	3OZ
ES-FS3528Y-112-24-Y	585-590 NM NM	---	<9.6W	---	---	3OZ
ES-FS3528G-112-24-Y	517-522 NM NM	---	<9.6W	---	---	3OZ
ES-FS3528B-112-24-Y	465-470 NM NM	---	<9.6W	---	---	3OZ



Strip length: CE:500CM UL:34.18FT



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



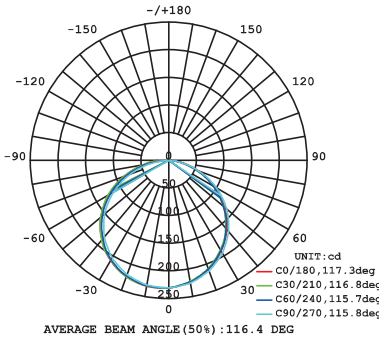
AL. profiles (mm)

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 ES-LL023009	 ES-LL030011	 ES-LL023015	 ES-LL013012
 ES-LL016016	 ES-LL020020-1	 ES-LL016015	 ES-LL025025
 ES-LL030030	 ES-LL010015	 ES-LL020020	
 ES-LL018018		 ES-LL010010	

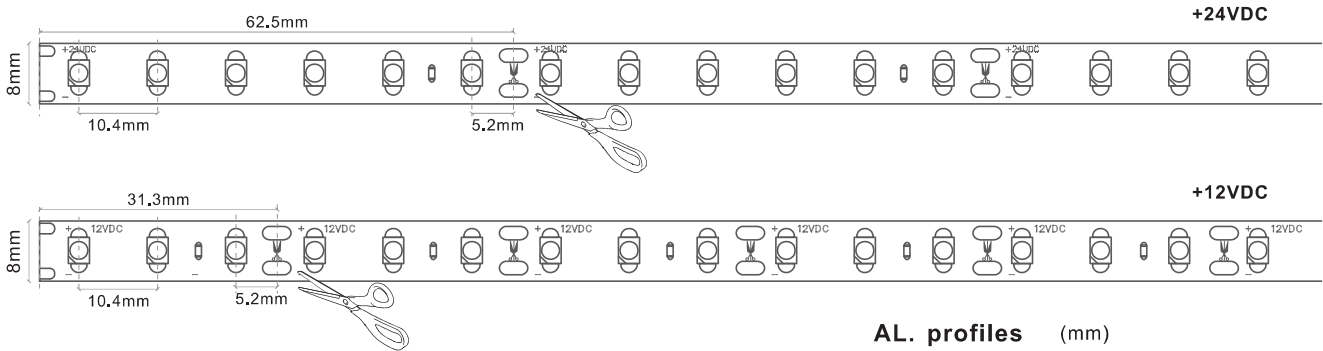
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-96-24-Y
Part Number:EST-FS3528C-96-12-Y

Model	Color temp. Wave lengths	LM/M	Power/M	CRI (Ra)	FPC copper
ES-FS3528WW-96-24-Y	2700K	430LM	<7.68W	90+	3OZ
ES-FS3528WW-96-24-Y	3000K	430LM	<7.68W	90+	3OZ
ES-FS3528WW-96-24-Y	3500K	430LM	<7.68W	90+	3OZ
ES-FS3528NW-96-24-Y	4000K	480LM	<7.68W	90+	3OZ
ES-FS3528NW-96-24-Y	5000K	530LM	<7.68W	90+	3OZ
ES-FS3528PW-96-24-Y	6500K	500LM	<7.68W	90+	3OZ
ES-FS3528R-96-24-Y	620-625 NM NM	---	<7.68W	---	3OZ
ES-FS3528Y-96-24-Y	585-590 NM NM	---	<7.68W	---	3OZ
ES-FS3528G-96-24-Y	517-522 NM NM	---	<7.68W	---	3OZ
ES-FS3528B-96-24-Y	465-470 NM NM	---	<7.68W	---	3OZ



Strip length: CE:500CM UL:47.57FT(24V) | 26.25FT(12V)



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



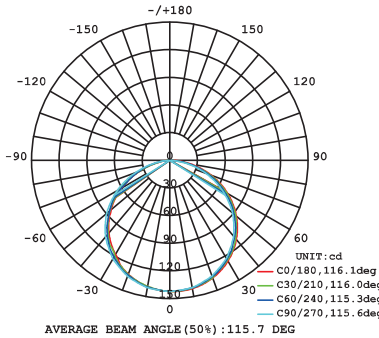
AL. profiles (mm)

ES-LL017009	ES-LL024011	ES-LL017015	ES-LL013006
ES-LL023009	ES-LL030011	ES-LL023015	ES-LL013012
ES-LL016016	ES-LL020020-1	ES-LL016015	ES-LL025025
ES-LL030030	ES-LL010015	ES-LL020020	
ES-LL018018	ES-LL010010		

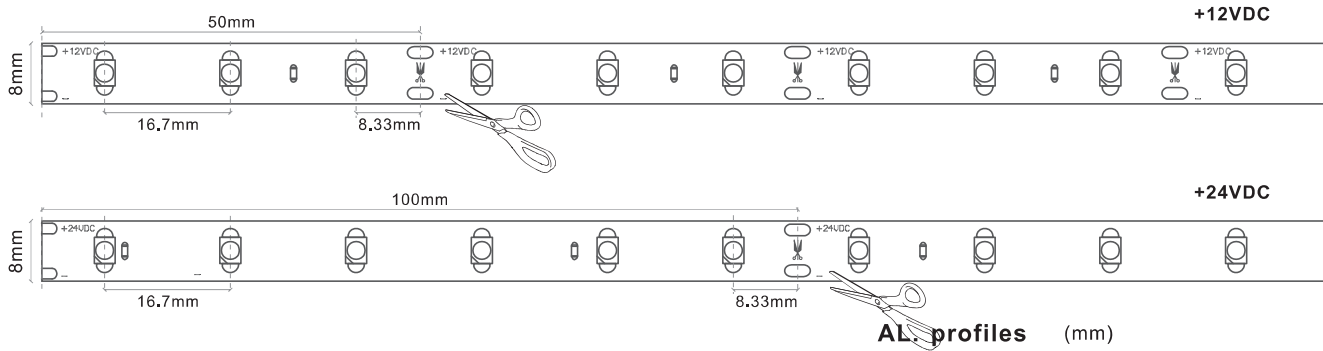
Economy--RA 90+ SMD3528

Part Number:EST-FS3528C-60-12-Y
Part Number:EST-FS3528C-60-24-Y

Model	Color temp. Wave lengths	LM/M	Power/M	CRI (Ra)	FPC copper
ES-FS3528WW-60-12-Y	2700K	360LM	<4.8W	90+	2OZ
ES-FS3528WW-60-12-Y	3000K	360LM	<4.8W	90+	2OZ
ES-FS3528WW-60-12-Y	3500K	360LM	<4.8W	90+	2OZ
ES-FS3528NW-60-12-Y	4000K	390LM	<4.8W	90+	2OZ
ES-FS3528NW-60-12-Y	5000K	390LM	<4.8W	90+	2OZ
ES-FS3528PW-60-12-Y	6500K	400LM	<4.8W	90+	2OZ
ES-FS3528R-60-12-Y	620-625 NM NM	---	<4.8W	---	2OZ
ES-FS3528Y-60-12-Y	585-590 NM NM	---	<4.8W	---	2OZ
ES-FS3528G-60-12-Y	517-522 NM NM	---	<4.8W	---	2OZ
ES-FS3528B-60-12-Y	465-470 NM NM	---	<4.8W	---	2OZ



Strip length: CE:500CM UL:41FT(12V) | 60.7FT(24V)



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



AL. profiles (mm)

ES-LL017009	ES-LL024011	ES-LL017015	ES-LL013006
ES-LL023009	ES-LL030011	ES-LL023015	ES-LL013012
ES-LL016016	ES-LL020020-1	ES-LL016015	ES-LL025025
ES-LL030030	ES-LL010015	ES-LL020020	
ES-LL018018	ES-LL010010		