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Manufacturing Center
DONGGUAN · JIANGMEN



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COB SERIES

2024-2025

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180° Light-emitting,no light spot



High Efficacy,up to 100lm/W



Various options available according to the scene

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COB Honor Series

Weldless PCB

DC12V/24V

Bigger chip, high efficacy

More stable

Dots-free, uniform lights



Weldless

Regular



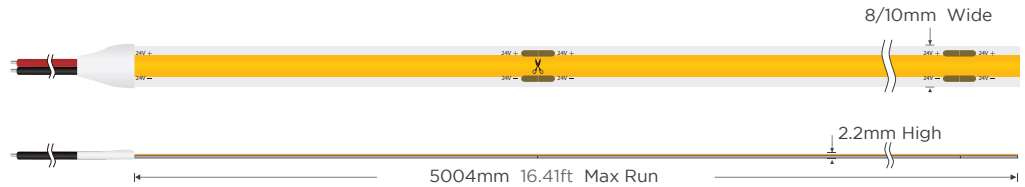


COB Honor / White



	320LEDS/M 8W	400LEDS/M 12W
Product NO.	FH08W-P0-G1 COB9X 24V320S W08RL05	FH12W-P0-G1 COB9X 24V400S W10RL05
Power	8W/M 2.4W/ft	12W/M 3.66W/ft
Voltage	DC24V/DC12V	DC24V/DC12V
CRI	90	90
Led Qty	320LEDS/m 97LEDS/ft	400LEDS/M 121LEDS/ft
Length/Reel	5004mm 16.41ft	5004mm 16.41ft
Cutting Length	50mm 1.97"	100mm 3.92"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68
Lumens		
● 2700K	745lm/m 227lm/ft	1060lm/m 323lm/ft
● 3000K	810lm/m 246lm/ft	1080lm/m 329lm/ft
● 4000K	840lm/m 256lm/ft	1285lm/m 391lm/ft
● 6500K	840lm/m 256lm/ft	1285lm/m 391lm/ft

Dimension

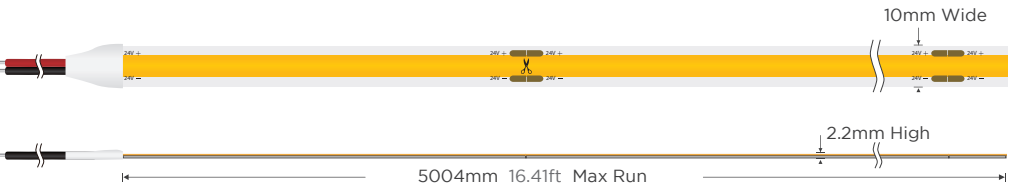


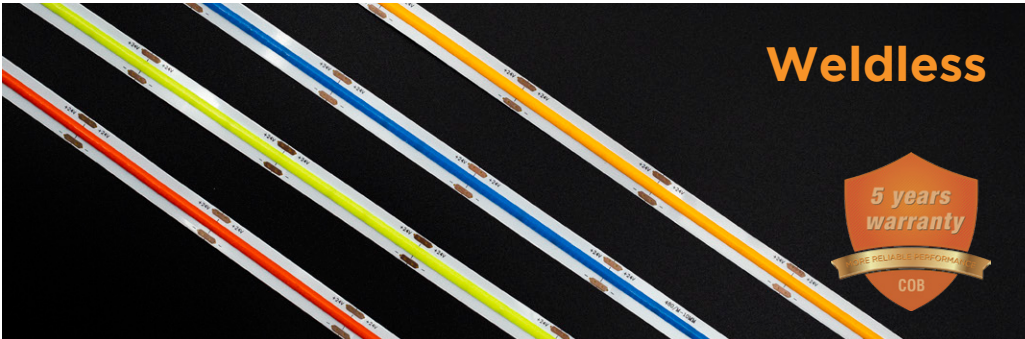
COB Honor / White



	480LEDS/M 15W
Product NO.	FH15W-P0-G1 COB9X 24V480S W10RL05
Power	15W/M 4.57W/ft
Voltage	DC24V/DC12V
CRI	90
Led Qty	480LEDS/M 146LEDS/ft
Length/Reel	5004mm 16.41ft
Cutting Length	50mm 1.97"
IP Grade	IP20 / IP65 / IP68
Lumens	
● 2700K	1350lm/m 411lm/ft
● 3000K	1440lm/m 439lm/ft
● 4000K	1440lm/m 439lm/ft
● 6500K	1440lm/m 439lm/ft

Dimension





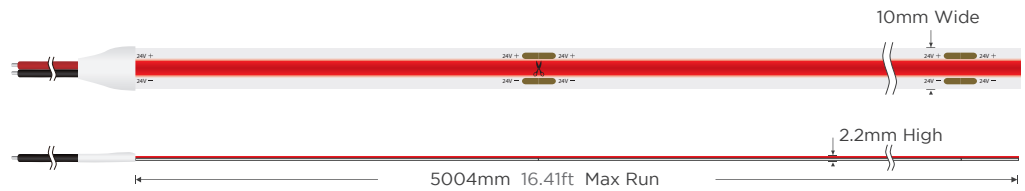
COB Honor / R/G/B/Y



480LEDS/M 10W

Product NO.	FH08W-P0-G1 COB9X 24V320S W08RL05		
Power	10W/M 3.04W/ft		
Voltage	DC24V		
CRI	-		
Led Qty	480LEDs/M 146LEDs/ft		
Length/Reel	5004mm 16.41ft		
Cutting Length	50mm 1.97"		
IP Grade	IP20 / IP65 / IP68		
Lumens			
Red	68lm/m 20lm/ft	Lp=660-670nm	
Green	1180lm/m 359lm/ft	Lp=520-530nm	
Blue	175lm/m 53lm/ft	Lp=455-465nm	
Yellow	800lm/m 244lm/ft	Ld=588-598nm	

Dimension





COB Honor / COB Ultra-Long

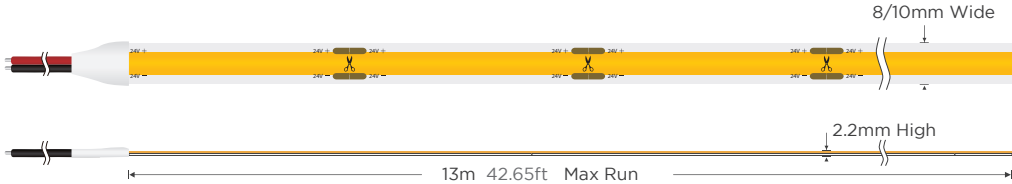


	336LEDS/M 5.8W	420LEDS/M 7.2W
Product NO.	FH06W-P0-G1 COB9x 24VC336S W08RL13	FH07W-P0-G1 COB9x 24VC420S W10RL13
Power	5.8W/M 1.77W/ft	7.2W/M 2.2W/ft
Voltage	DC24V	DC24V
CRI	90	90
Led Qty	336LEDS/m 102LEDS/ft	420LEDS/M 128LEDS/ft
Length/Reel	13m 42.65ft	13m 42.65ft
Cutting Length	41.67mm 1.64"	50mm 1.97"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68

Lumens			
2700K	455lm/m 139lm/ft	575lm/m 175lm/ft	
3000K	465lm/m 142lm/ft	585lm/m 178lm/ft	
4000K	490lm/m 149lm/ft	615lm/m 188lm/ft	
6500K	490lm/m 149lm/ft	615lm/m 188lm/ft	

	560LEDS/M 9.6W	Lumens		
Product NO.	FH10W-P0-G1 COB9x 24VC560S W10RL13	2700K	760lm/m 232lm/ft	
Power	9.6W/M 2.93W/ft	3000K	770lm/m 235lm/ft	
Voltage	DC24V	4000K	810lm/m 247lm/ft	
CRI	90	6500K	810lm/m 247lm/ft	
Led Qty	560LEDS/M 170LEDS/ft			
Length/Reel	13m 42.65ft			
Cutting Length	25mm 0.98"			
IP Grade	IP20 / IP65 / IP68			

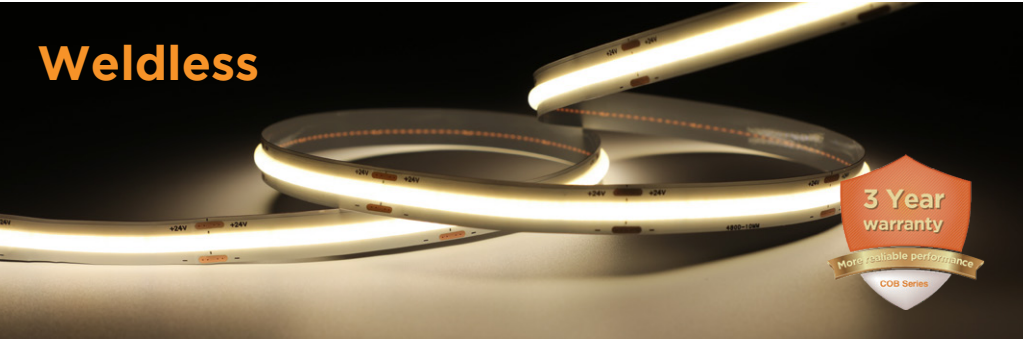
Dimension



COB Essential Series

CRI90+, various CCT for optional,
RGB&Tunable are available.
Widely used in office, commercial household
and decoration lighting, etc.



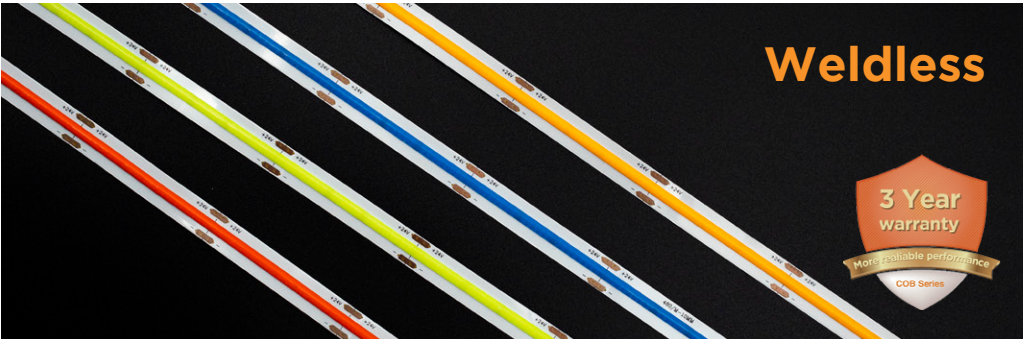
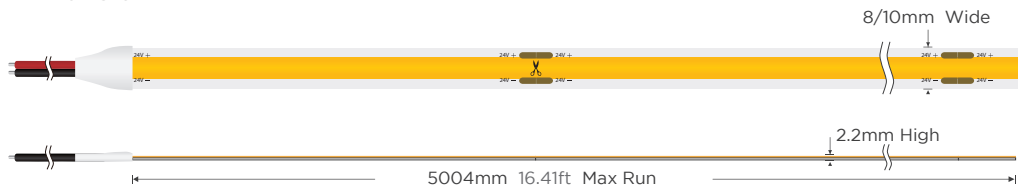


COB Essential / White (Weldless)



	320LEDS/M 8W	480LEDS/M 12W
Product NO.	FE08W-P0-G1 COB9X 24V320S W08RL05	FE12W-P0-G1 COB9X 24V480S W10RL05
Power	8W/M 2.4W/ft	12W/M 3.66W/ft
Voltage	DC24V	DC24V
CRI	90	90
Led Qty	320LEDS/M 97LEDs/ft	480LEDS/M 146LEDs/ft
Length/Reel	5004mm 16.41ft	5004mm 16.41ft
Cutting Length	50mm 1.96"	50mm 1.96"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68
Lumens		
● 2700K	736lm/m 224lm/ft	1044lm/m 318lm/ft
● 3000K	760lm/m 231lm/ft	1104lm/m 336lm/ft
● 4000K	864lm/m 263lm/ft	1212lm/m 369lm/ft
● 6500K	864lm/m 263lm/ft	1212lm/m 369lm/ft

Dimension

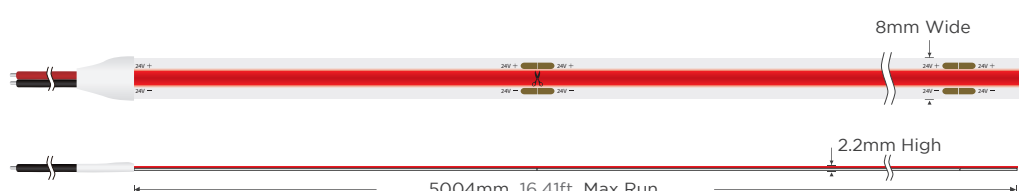


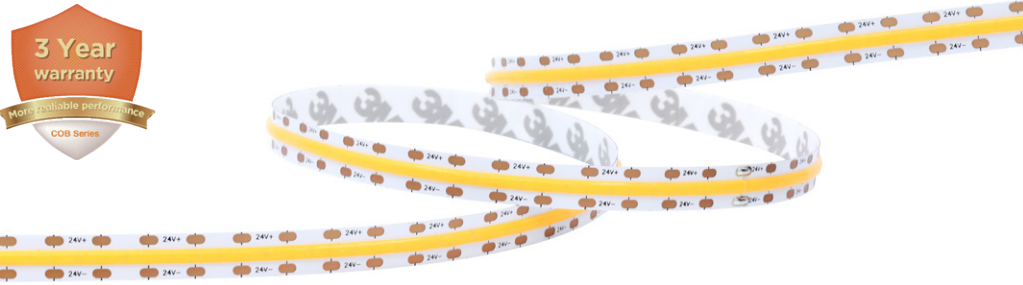
COB Essential / R/G/B/Y (Weldless)



	480LEDS/M 10W
Product NO.	FE10M-P0-G1 COBX 24V480S W08RL05
Power	10W/M 3.04W/ft
Voltage	DC24V
CRI	-
Led Qty	480LEDS/M 146LEDs/ft
Length/Reel	5004mm 16.41ft
Cutting Length	50mm 1.97"
IP Grade	IP20 / IP65 / IP68
Lumens	
● Red	70lm/m 21lm/ft Lp=660-670nm
● Green	1190lm/m 363lm/ft Lp=520-530nm
● Blue	150lm/m 46lm/ft Lp=455-465nm
● Yellow	900lm/m 274lm/ft Ld=588-598nm

Dimension



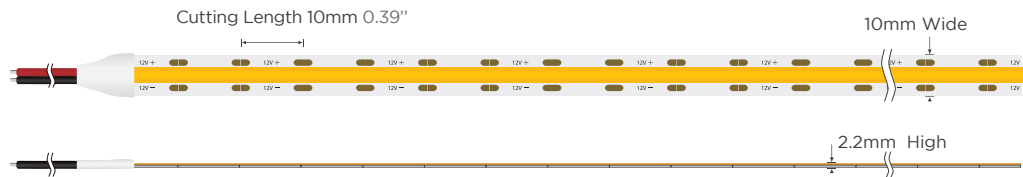


COB Essential / Mini cut



	300LEDS/M 10W	600LEDS/M 10W
Product NO.	FE10W-P0-G1 COB9x 12V300S W10L05	FE10W-P0-G1 COB9x 24V600S W10L05
Power	10W/M 3.04W/ft	10W/M 3.04W/ft
Voltage	DC12V	DC24V
CRI	90	90
Led Qty	300LEDS/M 91LEDS/ft	600LEDS/M 183LEDS/ft
Length/Reel	2500mm 8.36ft	5004mm 16.41ft
Cutting Length	10mm 0.39"	10mm 0.39"
IP Grade	IP20	IP20
Lumens		
● 2700K	650lm/m 198lm/ft	680lm/m 207lm/ft
● 3000K	720lm/m 219lm/ft	750lm/m 228lm/ft
● 4000K	850lm/m 259lm/ft	900lm/m 274lm/ft
● 6500K	800lm/m 259lm/ft	820lm/m 250lm/ft

Dimension





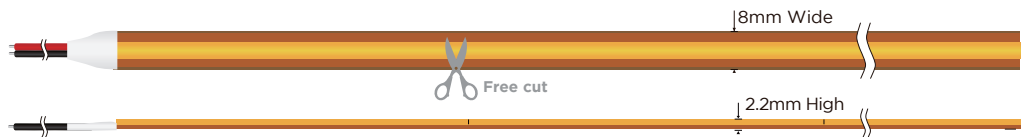
COB Essential / Free cut



528LEDS/M 13W

Product NO.	FE13W-P0-G1 COB9x 12V528S1 W08L05	
Power	13W/M 3.96W/ft	
Voltage	DC12V	
CRI	90	
Led Qty	528LEDs/m 161LEDs/ft	
Length/Reel	5004mm 16.41ft	
Cutting Length	Free cut	
IP Grade	IP20 / IP65 / IP68	
Lumens		
● 3000K	1170lm/m	357lm/ft
● 4000K	1200lm/m	366lm/ft
● 6500K	1200lm/m	366lm/ft

Dimension



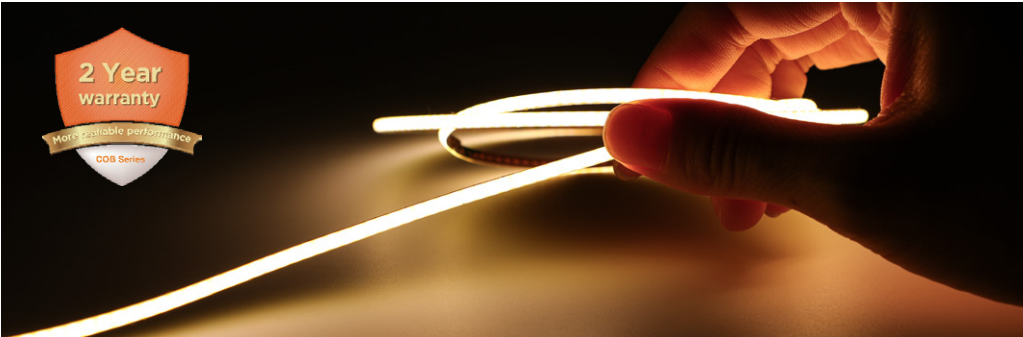


COB Essential / Mini PCB



	PCB 4mm / 4W	PCB 6mm / 6W
Product NO.	FE04W-P0-G1 COB9X 24V480S W04L2D5	FE06W-P0-G1 COB9X 24V480S W06L05
Power	4W/M 1.21W/ft	6W/M 1.82W/ft
Voltage	DC24V	DC24V
CRI	90	90
Led Qty	480LEDs/M 146LEDs/ft	480LEDs/M 146LEDs/ft
Length/Reel	2500mm 8.36ft	5004mm 16.41ft
Cutting Length	50mm 1.97"	50mm 1.97"
IP Grade	IP20	IP20
Lumens		
● 2700K	350lm/m 106lm/ft	480lm/m 146lm/ft
● 3000K	380lm/m 115lm/ft	580lm/m 176lm/ft
● 4000K	420lm/m 128lm/ft	630lm/m 192lm/ft
● 6500K	400lm/m 121lm/ft	600lm/m 182lm/ft

Dimension

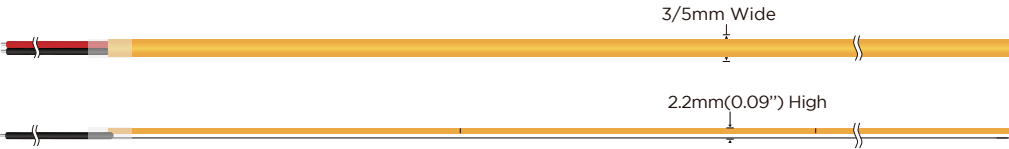


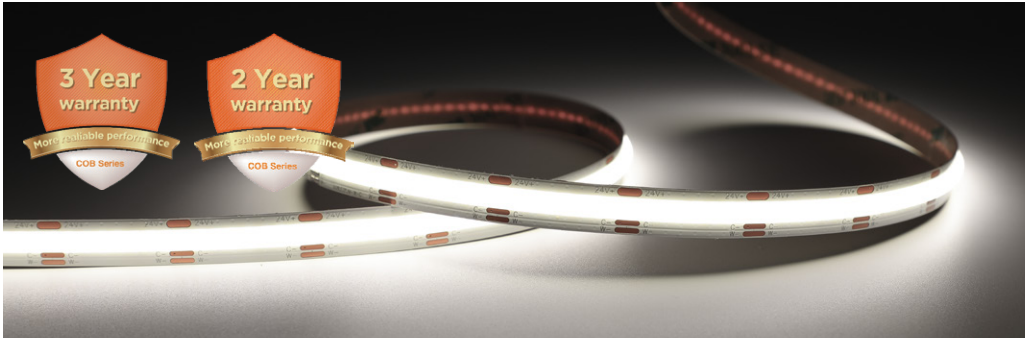
COB Essential / Mini PCB



	PCB 3mm / 7W	PCB 5mm / 7W
Product NO.	FE07W-P0-G1 COB9x 24V384S W03L2D5	FE07W-P0-G1 COB9x 24V384S W05L05
Power	7W/M 2.13W/ft	7W/M 2.13W/ft
Voltage	DC24V	DC24V
CRI	90	90
Led Qty	384LEDs/M 117LEDs/ft	384LEDs/M 117LEDs/ft
Length/Reel	2500mm 8.36ft	5004mm 16.41ft
Cutting Length	41.7mm 1.64"	41.7mm 1.64"
IP Grade	IP20	IP20
Lumens		
● 2700K	630lm/m 192lm/ft	630lm/m 192lm/ft
● 3000K	660lm/m 201lm/ft	660lm/m 201lm/ft
● 4000K	700lm/m 213lm/ft	700lm/m 213lm/ft
● 6500K	740lm/m 226lm/ft	740lm/m 226lm/ft

Dimension



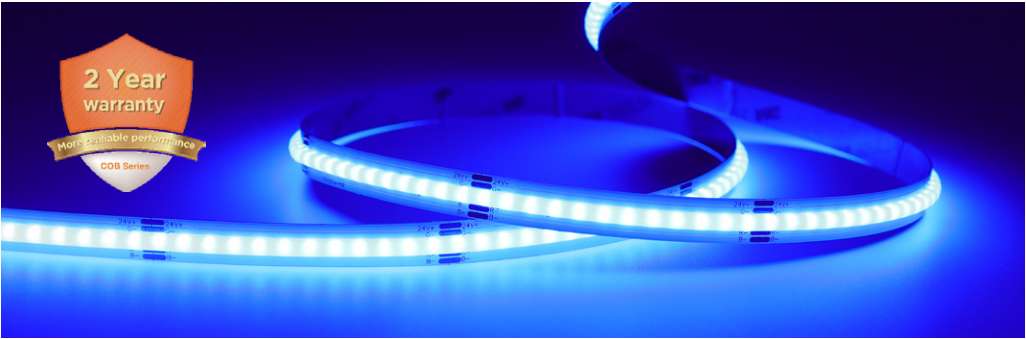
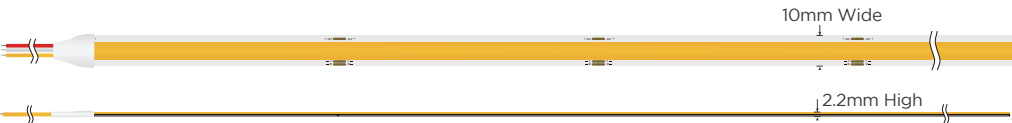


COB Essential / Colorful Tunable CCT



	3 840LEDS/M 20W	2 608LEDS/M 14W
Product NO.	FE20C-P0-G1 COB927965 24V840S W10L05	FE14C-P0-G1 COB92765 24V608S W10L05
Power	20W/M 6.09W/ft	14W/M 4.27W/ft
Voltage	DC24V	DC24V
CRI	90	90
Led Qty	840LEDS/M 256LEDS/ft	608LEDS/M 186LEDS/ft
Length/Reel	5004mm 16.41ft	5004mm 16.41ft
Cutting Length	50mm 1.97"	26.3mm 1.03"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68
Lumens		
● 2700K	840lm/m 256lm/ft	630lm/m 192lm/ft
● 6500K	1000lm/m 305lm/ft	770lm/m 235lm/ft

Dimension

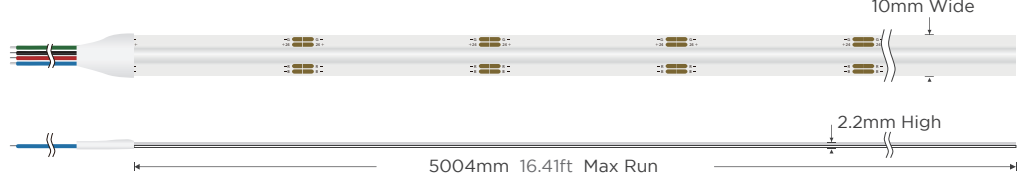


COB Essential / Colorful RGB



	576LEDS/M 14W	768LEDS/M 14W
Product NO.	FE14C-P0-G1 COBRGB 24V576S W10L05	FE14C-P0-G1 COBRGB 24V768S W10L05
Power	14W/M 4.27W/ft	14W/M 4.27W/ft
Voltage	DC24V	DC24V
CRI	-	-
Led Qty	576LEDS/M 176LEDS/ft	768LEDS/M 233LEDS/ft
Length/Reel	5004mm 16.41ft	5004mm 16.41ft
Cutting Length	62.5mm 2.46"	31.26mm 1.23"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68
Lumens		
● Red	160lm/m 49lm/ft	180lm/m 55lm/ft
● Green	330lm/m 100lm/ft	340lm/m 104lm/ft
● Blue	60lm/m 18lm/ft	80lm/m 24lm/ft

Dimension





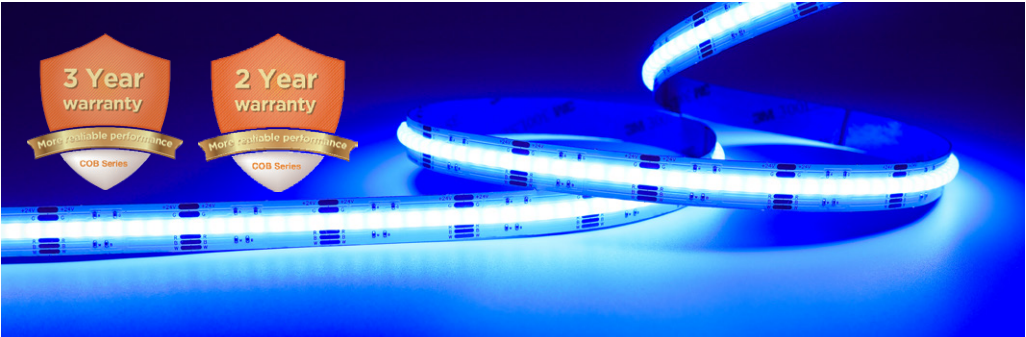
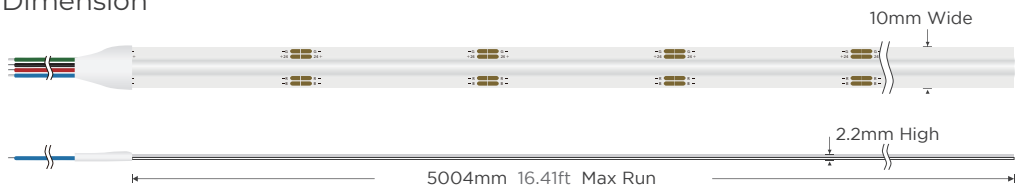
COB Essential / Colorful RGB



840LEDS/M 14W

Product NO.	FE14C-P0-G1 COBRGB 24V840S W10L05
Power	14W/M 4.27W/ft
Voltage	DC24V
CRI	-
Led Qty	840LEDS/M 256LEDS/ft
Length/Reel	5004mm 16.41ft
Cutting Length	25mm 0.98"
IP Grade	IP20 / IP65 / IP68
Lumens	
● Red	120lm/m 36lm/ft
● Green	400lm/m 122lm/ft
● Blue	55lm/m 17lm/ft

Dimension



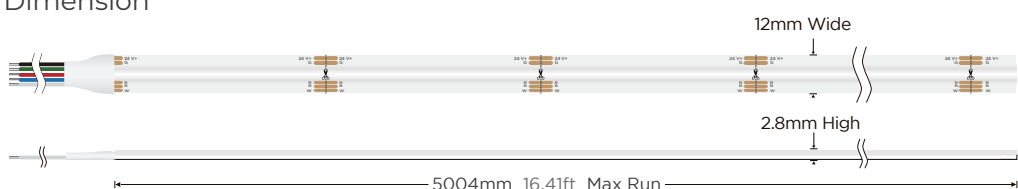
COB Essential / Colorful RGBW



784LEDS/M 19W

Product NO.	FE19C-P0-G1 COBRGBW 24V784S W12L05	FE18C-P0-G1 COBRGBW 24V840S W12L05
Power	19W/M 5.79W/ft	18W/M 5.48W/ft
Voltage	DC24V	DC24V
CRI	-	-
Led Qty	784LEDS/M 239LEDS/ft	840LEDS/M 256LEDS/ft
Length/Reel	5004mm 16.41ft	5004mm 16.41ft
Cutting Length	71.4mm 2.81"	33.33mm 1.31"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68
Lumens		
● Red	160lm/m 49lm/ft	110lm/m 33lm/ft
● Green	415lm/m 127lm/ft	450lm/m 137lm/ft
● Blue	85lm/m 26lm/ft	60lm/m 18lm/ft
● White	485lm/m 148lm/ft	480lm/m 146lm/ft

Dimension





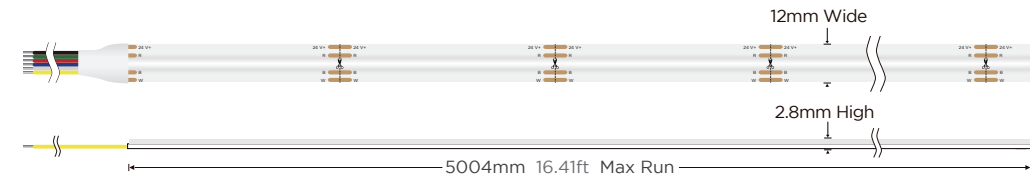
COB Essential / Colorful RGBWC



840LEDS/M 21W

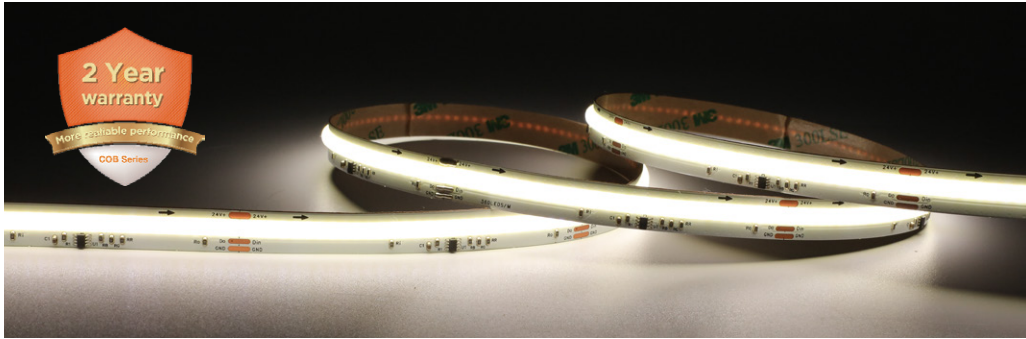
Product NO.	FE21C-P0-G1 COBRGBWC 24V840S W12L05	
Power	21W/M 6.4W/ft	
Voltage	DC24V	
CRI	-	
Led Qty	840LEDs/M 256LEDs/ft	
Length/Reel	5004mm 16.41ft	
Cutting Length	35.7mm 1.4"	
IP Grade	IP20 / IP65 / IP68	
Lumens		
● Red	130lm/m	40lm/ft
● Green	310lm/m	95lm/ft
● Blue	65lm/m	20lm/ft
● 2700K	380lm/m	116lm/ft
● 6500K	390lm/m	119lm/ft

Dimension



COB SPI Digital White

Colors jump & gradual changings can be realized by controller coding.
Varying color programs can be controlled by 12 pixels per meter.
SPI control IC-WS2811



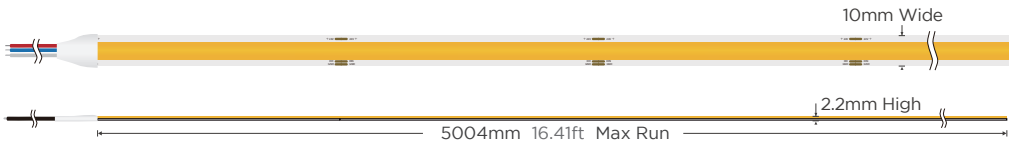
COB Essential / SPI Digital White



360LEDS/M 12W

Product NO.	FE12D-P0-G1 COB9xx 24VS360S W10L05
Power	12W/M 3.66W/ft
Voltage	DC24V
CRI	90
Led Qty	360LEDs/M 110LEDs/ft
Length/Reel	5004mm 16.41ft
Cutting Length	83.33mm 3.28"
IP Grade	IP20 / IP65 / IP68
Lumens	
● 3000K	660lm/m 201lm/ft
● 4000K	720lm/m 220lm/ft
● 6500K	720lm/m 220lm/ft

Dimension





COB SPI Digital RGB/RGBW

Colors jump & gradual changings can be realized by controller coding.

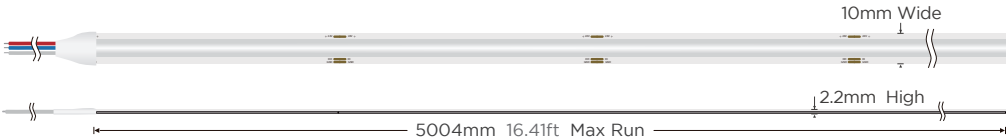


COB Essential / SPI Digital RGB/RGBW



	 RGB 576LEDS/M 18W	 RGBW 784LEDS/M 21W
Product NO.	FE18D-P0-G1 COBRGB 24VS576S W10L05	FE21D-P0-G1 COBRGBW 24VS784S W10L05
Power	18W/M 5.49W/ft	21W/M 6.4W/ft
Voltage	DC24V	DC24V
CRI	/	/
Led Qty	576LEDS/M 176LEDS/ft	784LEDS/M 239LEDS/ft
Length/Reel	5004mm 16.41ft	5004mm 16.41ft
Cutting Length	62.5mm 2.46"	71.42mm 2.81"
IP Grade	IP20 / IP65 / IP68	IP20 / IP65 / IP68
Lumens		
● Red	114lm/m 35lm/ft	66lm/m 20lm/ft
● Green	433lm/m 132lm/ft	435lm/m 133lm/ft
● Blue	60lm/m 18lm/ft	69lm/m 21lm/ft
● White	/ /	340lm/m 104lm/ft

Dimension



COB NEON Series / Black Gold

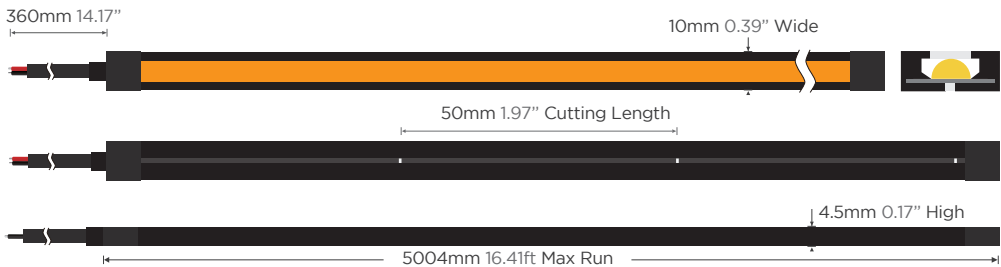
IP67 protection.
Black and gold collocation, the appearance of
High-end atmosphere.
Easy to install and preserve.



320LEDS/M 8W

Product NO.	FE08W-P7-G3 COB9X 24V320S W08L05	
Power	8W/M 2.43W/ft	
Voltage	DC24V	
CRI	90	
Led Qty	320LEDs/M 97LEDs/ft	
Length/Reel	5050mm 16.56ft	
Cutting Length	50mm 1.97"	
IP Grade	IP67	
Lumens		
● 2700K	480lm/m	146lm/ft
● 3000K	520lm/m	158lm/ft
● 4000K	650lm/m	198lm/ft
● 6500K	650lm/m	198lm/ft

Dimension



Accessories Specification



COB Connectors

Single Color

Series	Product			PCB Width	Product NO.
	BB PCB to PCB	XB Cable to PCB	BXB PCB to Cable to PCB		
LD- COB H Series Maximum voltage: 36V Maximum current: 5A				8mm	COB2P-C08BB-G1 COB2P-C08XB-G1 COB2P-C08MBXB-G1
				10mm	COB2P-C10BB-G1 COB2P-C10XB-G1 COB2P-C10MBXB-G1
LD- COB E Series Maximum voltage: 36V Maximum current: 5A				8mm	COB2P-C08BB-G1 COB2P-C08XB-G1 COB2P-C08MBXB-G1
				10mm	COB2P-C10BB-G1 COB2P-C10XB-G1 COB2P-C10MBXB-G1

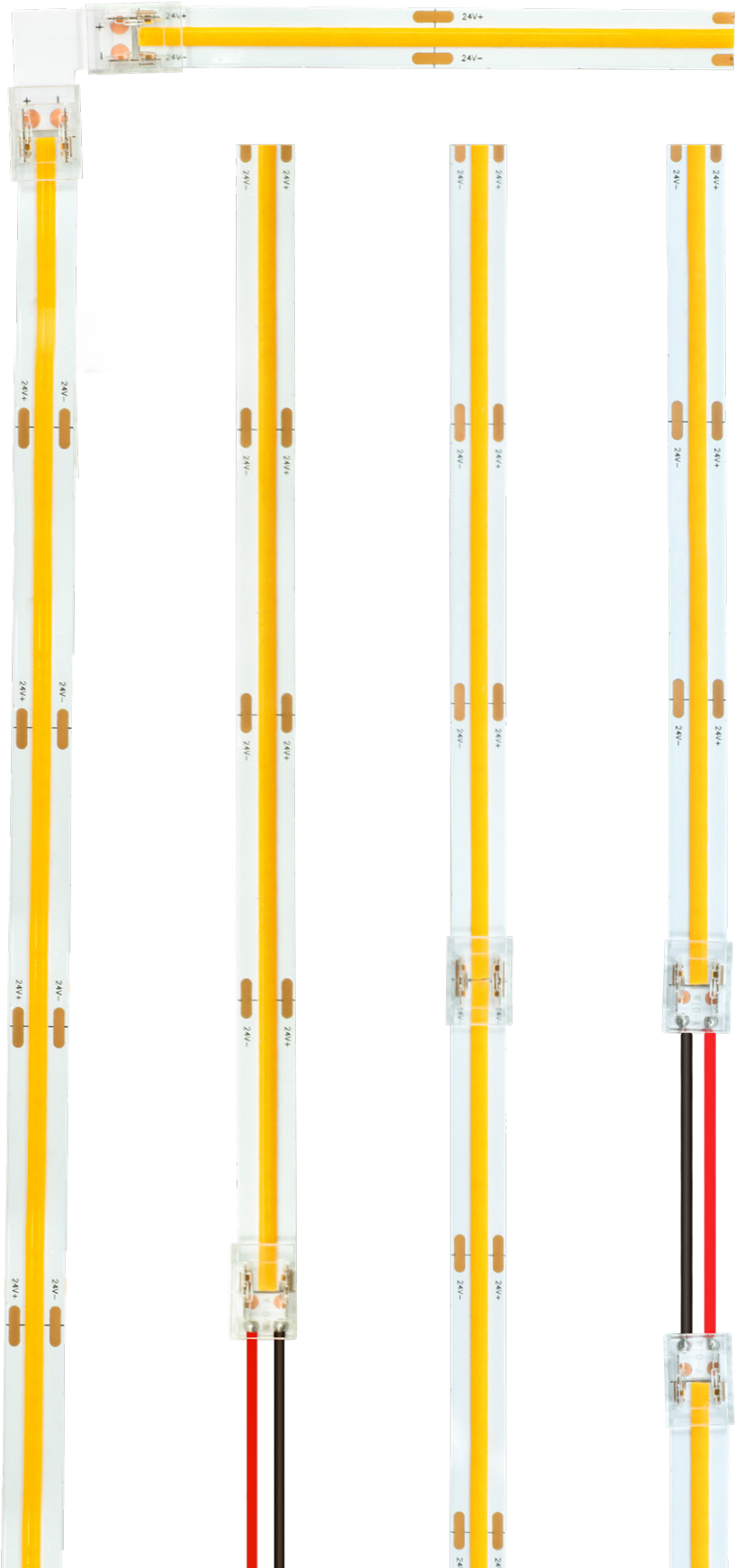
Tunable

Series	Product			PCB Width	Product NO.
	BB PCB to PCB	XB Cable to PCB	BXB PCB to Cable to PCB		
LD- COB H Series Maximum voltage: 36V Maximum current: 5A				8mm	COB3/4P-C10BB-G1 COB3P-C10XB-G1 COB3P-C10MBXB-G1
				10mm	COB2P-C10BB-G1 COB2P-C10XB-G1 COB2P-C10MBXB-G1

RGB

Series	Product			PCB Width	Product NO.
	BB PCB to PCB	XB Cable to PCB	BXB PCB to Cable to PCB		
LD- COB H Series Maximum voltage: 36V Maximum current: 5A				10mm	COB3/4P-C10BB-G1 COB4P-C10XB-G1 COB4P-C10MBXB-G1
LD- COB E Series Maximum voltage: 36V Maximum current: 5A			/	10mm	COB4P-C10BB SMD4P-C10BB COB4P-C10XB

L Shape



IP Rating

IP20 / Ribbon Series

2.2mm
8mm
PCB

2.2mm
10mm
PCB

IP65 / Hollow Extrusion

4.5mm
10mm
Silicon cased
PCB 8mm

4.5mm
12mm
Silicon cased
PCB 10mm

NEON IP67

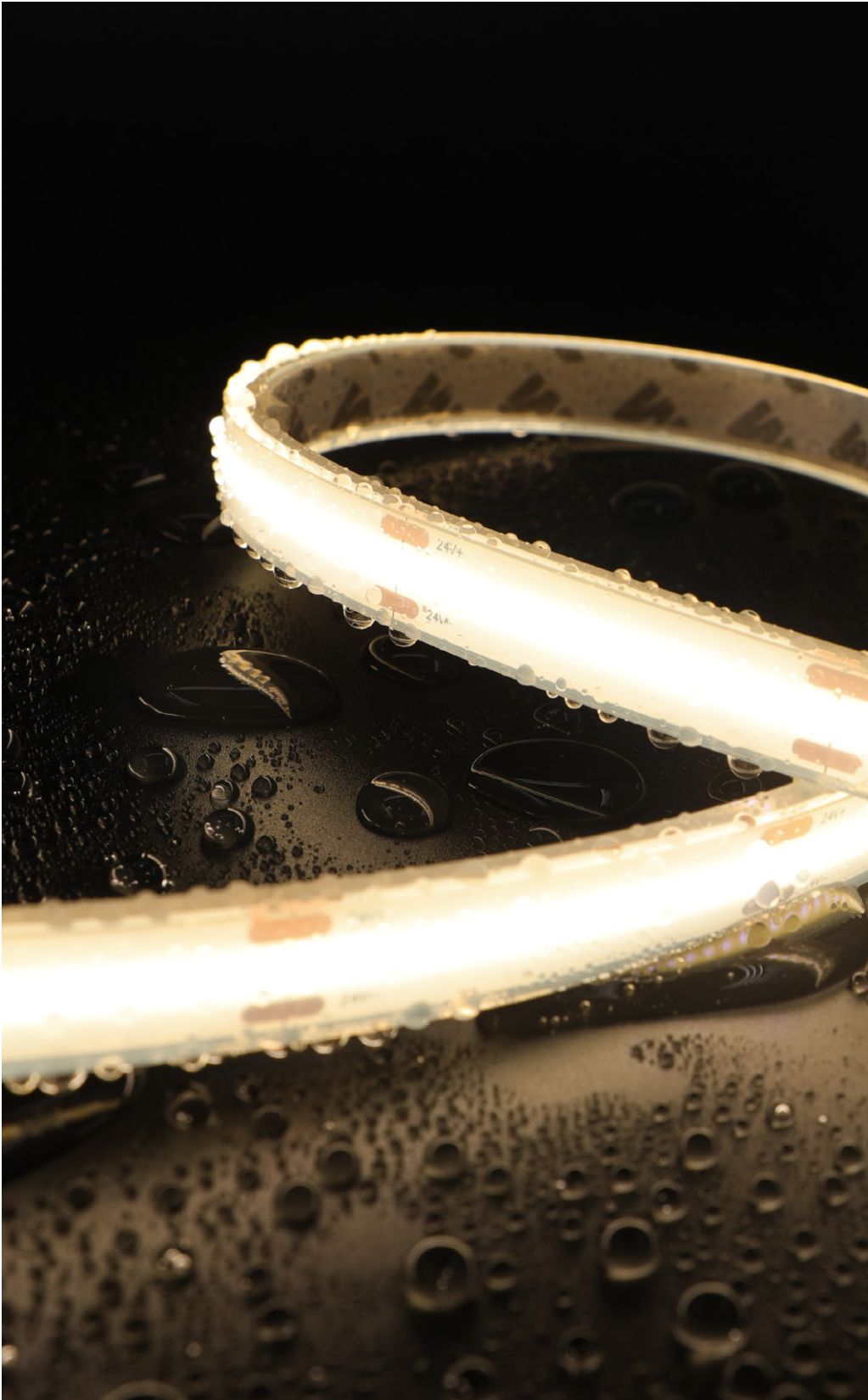
4.5mm
10mm
Transparent
Silicon glue
PCB 8mm

4.5mm
10mm
Transparent
Silicon glue
PCB 8mm

IP68 / Jade Series

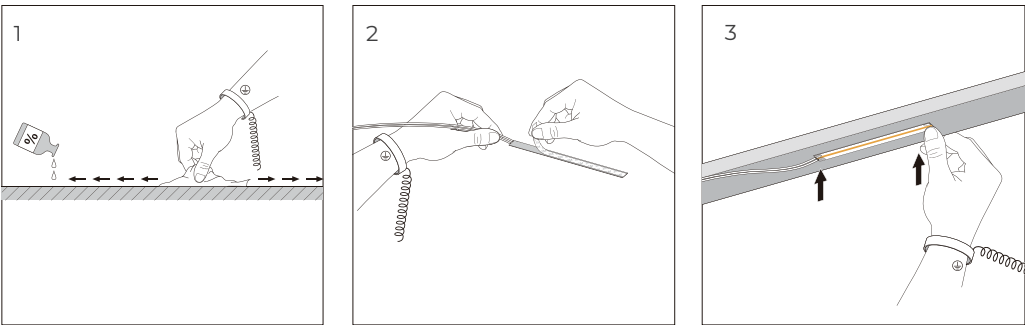
4.5mm
10mm
Silicon glue
Silicon cased
PCB 8mm

4.5mm
12mm
Silicon glue
Silicon cased
PCB 10mm

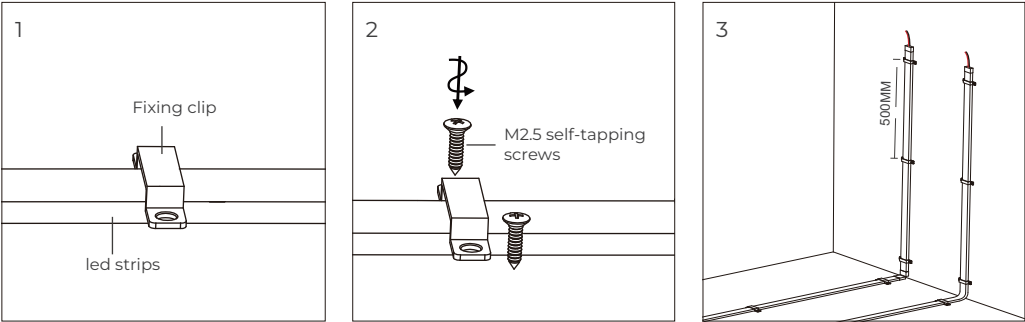


Installation

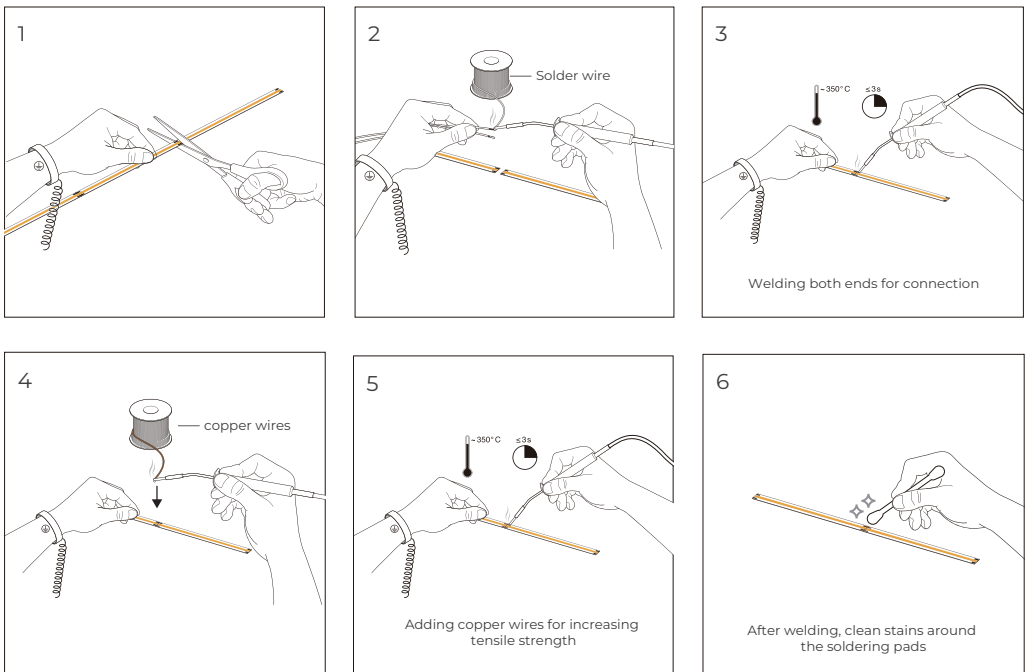
IP20



IP65/IP68



Cutting



Applicaiton note

