

ARCUS CORE 3D MEDIUM - COMBO SYSTEM

(Standard Cut + Free Cut Finishing Piece)

3D Bending · Static White

Features

The Arcus Combo System combines standard cut and free cut capabilities to provide precise, made-to-order lengths, utilizing Standard Cuts for the majority of the runs, with Free Cuts reserved only for the finishing segments. This combo usage achieves cost savings of 20 - 40% versus using Free Cuts for the entire length. Both Arcus Standard Cut and Free Cut maintain consistent binning and brightness.

The system is suitable for indoor and outdoor applications, and delivers exceptional performance with a CRI over 90, brightness of up to 268 lm/ft, ensuring robustness and design flexibility.

Applications

Living rooms, TV walls, feature walls, under-cabinet areas, staircases, ceiling coves, hallways, etc.



RoHS

ONE
BIN24V
DC

Date

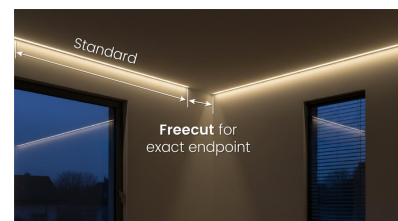
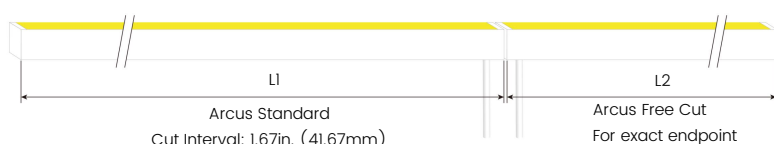
Fixture type

Project name

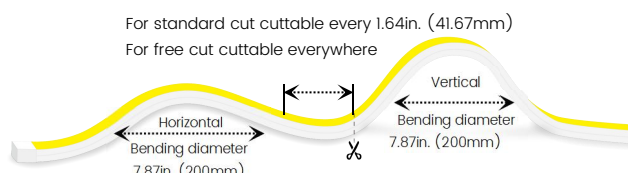
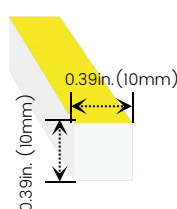
Project phase



Combo System



Dimensions



*FT/FO end caps are flush-finished with the strip body.

Order Code

Model	Environment	Voltage	CCT	Power	End Cap
AC3DM	D4-Dry (IP54)	24V-DC24V	22K-2200K	3.0-3.05W/ft	FT Flush translucent
AC3DMFC	W7-Wet (IP67)		27K-2700K		FO Flush opaque
			30K-3000K		
			35K-3500K		
			40K-4000K		

*AC3DMFC: Free Cut delivers precise field-cut lengths for the last segment while keeping in line with standard cut in dimensions, binning, output, and mounting for a uniform appearance.

*Flush translucent and opaque are factory-made only.

Assembly Builder

Left Feed Entry			
F	Front	OW	Open wire 3.28ft (1m)
B	Bottom	MC	Male connector with 0.98ft (30cm) cable
S	Side	FC	Female connector with 0.98ft (30cm) cable
C	Closed	NA	Only for Closed Feed Entry

Assembly Builder

Right Feed Entry				Length	
F	Front	OW	Open wire 3.28ft (1m)	Max nominal	16.4ft (5m)
B	Bottom	MC	Male connector with 0.98ft (30cm) cable	Increment	1.64in. (41.67mm)
S	Side	FC	Female connector with 0.98ft (30cm) cable	* For ARCUS CORE 3D MEDIUM	
C	Closed	NA	Only for Closed Feed Entry		

*We will manufacture to the requested length considering the increment length.

Mounting Order Code

Product Code
Please select on the Mounting Options page.

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Lumen Output (lm/ft)

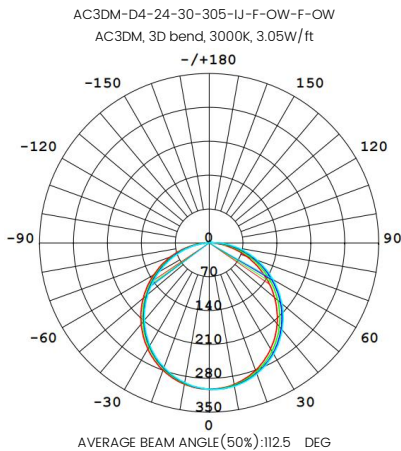
Temp./Color	3.05W/ft
■ 2200K	214
■ 2700K	244
■ 3000K	256
■ 3500K	268
■ 4000K	268
Max. Run for Class 2*	16.4ft (5m) ¹ 16.4ft (5m) ²
Max. Run Supported Length	16.4ft (5m) ¹ 16.4ft (5m) ²

1. Max run for standard cut.
2. Max run for Free cut.

Technical Details

Efficacy	87.8lm/W @4000K 3.05W
CRI	Ra≥90
Beam Angle	120°
LED MacAdam	3 steps
Average Life(L70)	> 44,000 hours
Storage Temperature	-40~149°F (-40°C~ 65°C)
Operating Temperature	-40~149°F (-40°C~ 65°C)

Photometry



Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0~30	234.1	26.1%
0~40	383.0	42.7%
0~60	677.6	75.5%
0~90	880.2	98.1%
0~180	897.2	100%

UNIT: CD
— C0/180, 111.5
— C30/210, 112.1
— C60/240, 113.0
— C90/270, 113.4

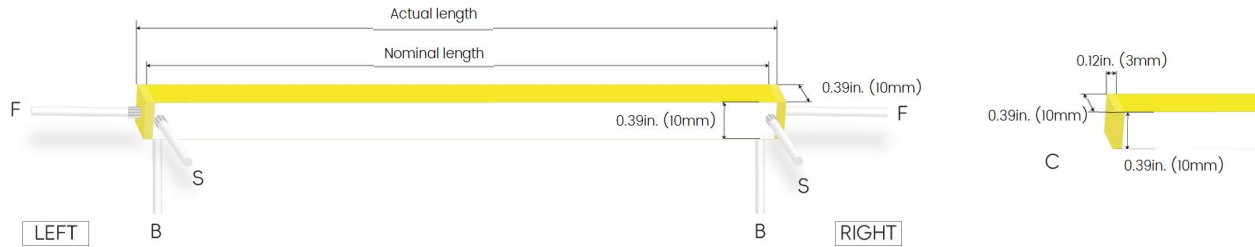
ARCUS CORE 3D MEDIUM - COMBO SYSTEM

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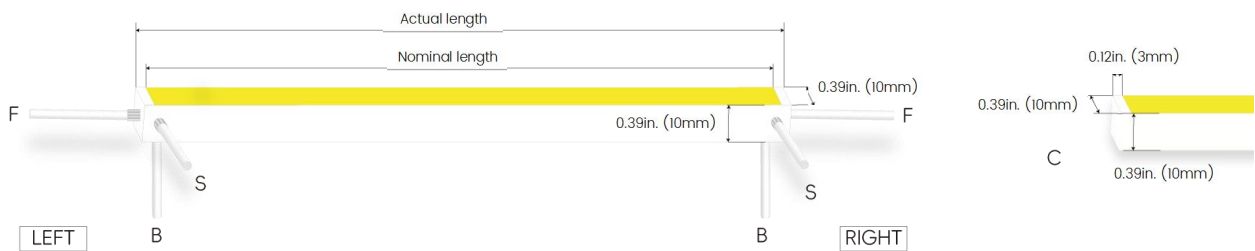
3D Bending · Static White

Feed Entry / End Cap Options

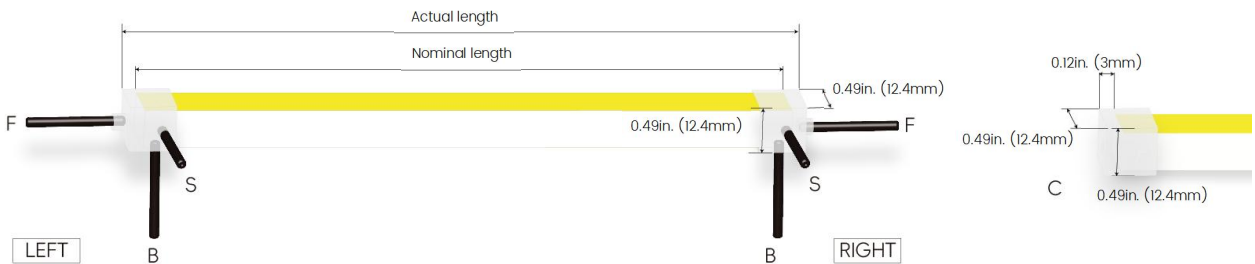
FT: Flush translucent end cap – IP54/IP67, factory-made only



FO: Flush opaque end cap – IP54/IP67, factory-made only



SEC: Silicone end cap – IP54/IP67, order separately



Connector Wire Options



OW: Open wire, **Dry only**
Standard 3.28ft (1m), 20 AWG (wire length customizable)



MC: Male connector, **Wet**
Standard 0.98ft (30cm), 20 AWG



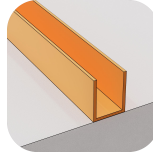
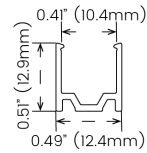
FC: Female connector, **Wet**
Standard 0.98ft (30cm), 20 AWG

ARCUS CORE 3D MEDIUM – COMBO SYSTEM

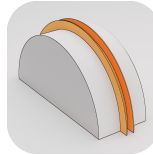
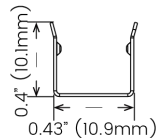
(Standard Cut + Free Cut Finishing Piece)

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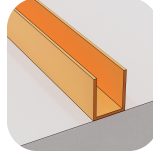
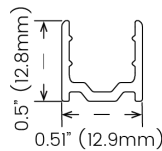
Mounting Options

**ARCUS-M-SC**

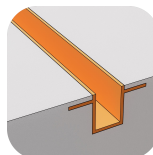
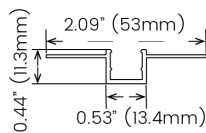
Name	Straight surface channel
Material	Aluminum
Standard Length	3.28ft (1M)

**ARCUS-M-BC**

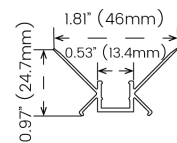
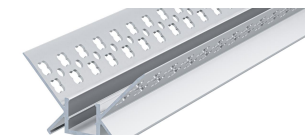
Name	Bendable surface channel
Material	Stainless Steel
Standard Length	3.28ft (1M)
Min. bending radius	23.6in. (600mm)

**ARCUS-M-PC**

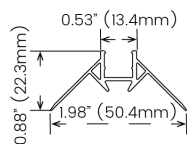
Name	PC channel
Material	PC
Standard Length	3.28ft (1M)

**ARCUS-M-MC**

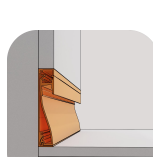
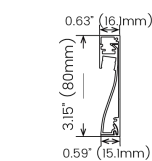
Name	Mud-in channel
Material	Aluminum
Standard Length	3.28ft (1M)

**ARCUS-M-IC**

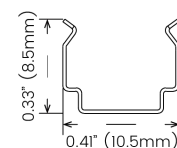
Name	Inside corner channel
Material	Aluminum
Standard Length	3.28ft (1M)

**ARCUS-M-OC**

Name	Outside corner channel
Material	Aluminum
Standard Length	3.28ft (1M)

**ARCUS-M-SBC**

Name	Skirting board channel
Material	Aluminum
Standard Length	3.28ft (1M)

**ARCUS-M-CL**

Name	Mounting clip
Material	Aluminum
Standard Length	0.28in. (7mm)

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End Caps (Optional, purchase for extra)

**ARCUS-M-SEC-C**
Silicone closed end cap**ARCUS-M-SEC-F-2P**
Silicone end cap front entry with 0.98ft (30cm) cable, 2 pin**ARCUS-M-SEC-S-2P**
Silicone end cap side entry with 0.98ft (30cm) cable, 2 pin**ARCUS-M-SEC-B-2P**
Silicone end cap bottom entry with 0.98ft (30cm) cable, 2 pin

Additional Accessories (Optional, purchase for extra)

**MCW-2P-67**
Male connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 20 AWG**FCW-2P-67**
Female connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 20 AWG**MCB-2P-67**
Male connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 20 AWG**FCB-2P-67**
Female connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 20 AWG

Drivers

Non-dimmable

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KV-24030-ASW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)
KV-24060-ASW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KV-24096-ASW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)

Phase cut/Triac-dimmable

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KVF-24030-TDW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)
KVF-24060-TDW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KVF-24096-TDW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)
KVF-24030-TDWJ	30W				Yes	Dry/Damp	6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)
KVF-24060-TDWJ	60W						7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)
KVF-24096-TDWJ	96W						8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)
KVF-24192-TDWJ	192W (96Wx2)						10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVF-24288-TDWJ	288W (96Wx3)						11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVF-24384-TDWJ	384W (96Wx4)						12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm)

4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KVD-24030-DIM	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)
KVD-24060-DIM	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KVD-24096-DIM	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)
KVD-24030-DIMJ	30W				Yes	Dry/Damp	6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)
KVD-24060-DIMJ	60W						7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)
KVD-24096-DIMJ	96W						8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)
KVD-24192-DIMJ	192W (96Wx2)						10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)

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KVD-24288-DIMJ	288W (96Wx3)						11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVD-24384-DIMJ	384W (96Wx4)						12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm)

5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)

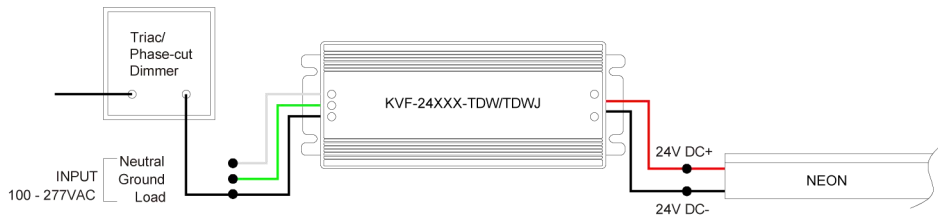
Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KVG-24030-DW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)
KVG-24060-DW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KVG-24096-DW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)
KVG-24030-DWJ	30W				Yes	Dry/Damp	6.5 x 3.7 x 1.6in. (16.5 x 9.5 x 4cm)
KVG-24060-DWJ	60W						7.4 x 3.7 x 1.6in. (18.8 x 9.5 x 4cm)
KVG-24096-DWJ	96W						8.7 x 3.7 x 1.6in. (22 x 9.5 x 4cm)
KVG-C24192-DWJ	192W (96Wx2)						10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVG-C24288-DWJ	288W (96Wx3)						11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVG-C24384-DWJ	384W (96Wx4)						12.8 x 5.5 x 1.9in. (32.5 x 14 x 4.8cm)

Wiring Diagram

Non-dimmable



Phase cut/Triac-dimmable



4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)

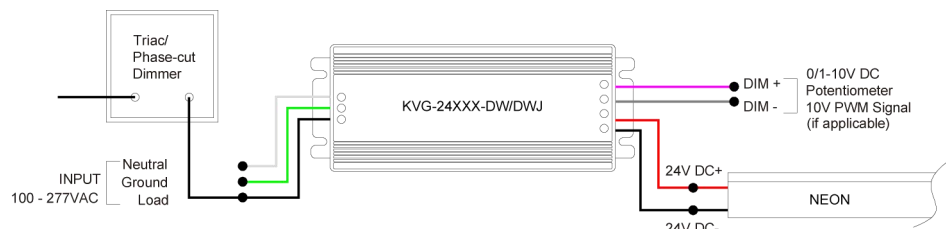


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5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)



24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG
5W / 0.2A	1730 ft (527.3 m)	784 ft (238.9 m)	397 ft (121.0 m)	263 ft (80.2 m)	175 ft (53.3 m)	131 ft (39.9 m)	107 ft (32.6 m)
10W / 0.4A	865 ft (263.6 m)	392 ft (119.4 m)	199 ft (60.7 m)	132 ft (40.2 m)	88 ft (26.8 m)	66 ft (20.1 m)	54 ft (16.5 m)
15W / 0.6A	577 ft (175.9 m)	261 ft (79.6 m)	132 ft (40.2 m)	88 ft (26.8 m)	58 ft (17.7 m)	44 ft (13.4 m)	36 ft (11.0 m)
20W / 0.8A	433 ft (132.0 m)	196 ft (59.7 m)	99 ft (30.2 m)	66 ft (20.1 m)	44 ft (13.4 m)	33 ft (10.1 m)	27 ft (8.2 m)
25W / 1.0A	346 ft (105.5 m)	157 ft (47.9 m)	79 ft (24.1 m)	53 ft (16.2 m)	35 ft (10.7 m)	26 ft (7.9 m)	22 ft (6.7 m)
30W / 1.3A	289 ft (88.1 m)	131 ft (39.9 m)	66 ft (20.1 m)	44 ft (13.4 m)	29 ft (8.8 m)	22 ft (6.7 m)	18 ft (5.5 m)
35W / 1.5A	248 ft (75.6 m)	112 ft (34.1 m)	57 ft (17.4 m)	38 ft (11.6 m)	25 ft (7.6 m)	19 ft (5.8 m)	15 ft (4.6 m)
40W / 1.7A	217 ft (66.1 m)	98 ft (29.9 m)	50 ft (15.2 m)	33 ft (10.1 m)	22 ft (6.7 m)	16 ft (4.9 m)	13 ft (4.0 m)
45W / 1.9A	192 ft (58.5 m)	87 ft (26.5 m)	44 ft (13.4 m)	29 ft (8.8 m)	19 ft (5.8 m)	14 ft (4.3 m)	12 ft (3.7 m)
50W / 2.1A	173 ft (52.7 m)	78 ft (23.8 m)	40 ft (12.2 m)	26 ft (7.9 m)	18 ft (5.5 m)	13 ft (4.0 m)	11 ft (3.4 m)
55W / 2.3A	157 ft (47.9 m)	71 ft (21.6 m)	36 ft (11.0 m)	24 ft (7.3 m)	16 ft (4.9 m)	12 ft (3.7 m)	10 ft (3.0 m)
60W / 2.5A	144 ft (43.9 m)	65 ft (19.8 m)	33 ft (10.1 m)	22 ft (6.7 m)	15 ft (4.6 m)	11 ft (3.4 m)	9 ft (2.7 m)
65W / 2.7A	133 ft (40.5 m)	60 ft (18.3 m)	30 ft (9.1 m)	20 ft (6.1 m)	14 ft (4.3 m)	10 ft (3.0 m)	8 ft (2.4 m)
70W / 2.9A	124 ft (37.8 m)	56 ft (17.1 m)	28 ft (8.5 m)	19 ft (5.8 m)	13 ft (4.0 m)	10 ft (3.0 m)	8 ft (2.4 m)
75W / 3.1A	116 ft (35.4 m)	52 ft (15.9 m)	26 ft (7.9 m)	17 ft (5.2 m)	12 ft (3.7 m)	9 ft (2.7 m)	7 ft (2.1 m)
80W / 3.3A	109 ft (33.2 m)	49 ft (14.9 m)	25 ft (7.6 m)	16 ft (4.9 m)	11 ft (3.4 m)	8 ft (2.4 m)	7 ft (2.1 m)
85W / 3.5A	103 ft (31.4 m)	46 ft (14.0 m)	23 ft (7.0 m)	15 ft (4.6 m)	10 ft (3.0 m)	8 ft (2.4 m)	6 ft (1.8 m)
90W / 3.8A	97 ft (29.6 m)	44 ft (13.4 m)	22 ft (6.7 m)	15 ft (4.6 m)	10 ft (3.0 m)	7 ft (2.1 m)	6 ft (1.8 m)
96W / 4.0A	91 ft (27.7 m)	41 ft (12.5 m)	21 ft (6.4 m)	14 ft (4.3 m)	9 ft (2.7 m)	7 ft (2.1 m)	6 ft (1.8 m)