

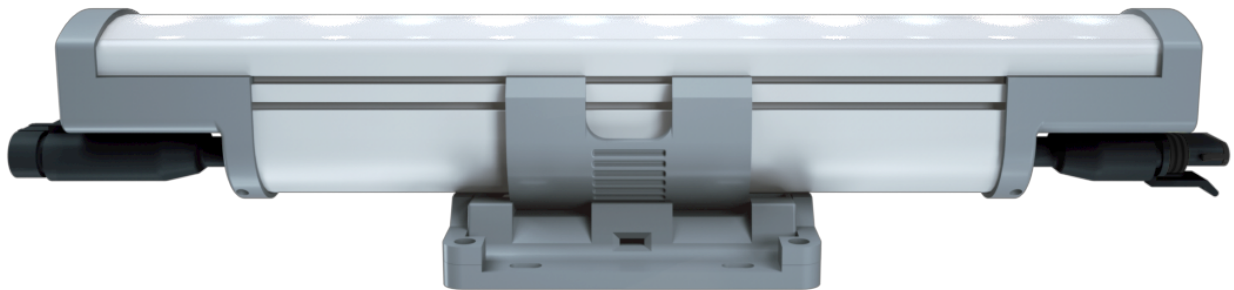
Client: \_\_\_\_\_ Project Name: \_\_\_\_\_

MODA Contact: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Type: \_\_\_\_\_ PO#: \_\_\_\_\_ Quantity: \_\_\_\_\_

Notes: \_\_\_\_\_

\_\_\_\_\_



**Specification Grade Premium Exterior Graze Fixture.**

MODA GRAZE Exterior is a new patent pending grazer lighting system designed for exterior applications. Utilizing MODA’s latest DMX software, our onboard Microprocessor is uniquely programmed in-house with a firmware to receive DMX 512 signals for full independent control of every 1ft section. Change the color temperature ranging from 2200K to 6500K and create a variety of moods. With MODA’s methods of precision and high standards of work, MODA achieves perfect illumination. Color Rendering Index is at a MODA standard of 90-98. R1 - R15 values are in excess of 90. No striations, no color over angle, and no dark spots.

Wall wash any applications with a choice of 6°, 10°, 25°, 40°, 10°x40°, 30°x60°, or 30°x60°x5° beam patterns for HO, or 30°x100° for SO or HO+ Lumen packages. 100-277V, 50/60Hz power input allows these fixtures to be installed anywhere in the world. New patent pending locking bracket rotates 180° for a multitude of light directions. Rugged aluminum design. Protected from corrosion and harsh weather conditions by MODA GUARD—a tough seal which protects the fixture. Fast installation is achieved with MODA KWIK CONNECT plugs and install-integral thumb latch connectors. Available in 1ft & 4ft sections. Series is designed for driver or light engine to be factory replaced at its end of life or recycled.

Designed and developed in Las Vegas, USA by MODA.

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## PHYSICAL

<b>Dimensions</b>	L: 1ft (306mm) L: 4ft (1.21m)	W: 2 1/2in(72mm) H: 2 5/16in(60mm)
<b>Applications</b>	Graze, Accent & Indirect General Illumination	
<b>Construction</b>	Pure Aluminum Body, Polycarbonate Mounting Bracket and Lens	
<b>Ingress Protection</b>	Dry/Damp Location IP66	
<b>Thermal Management</b>	MODA Aluminum Heat Sink	
<b>Beam Angle</b>	6°, 10°, 25°, 40°, 10°x40°, 30°x60°, forward throw asymmetric, or 30°x100° optic options	
<b>Fixture Connections</b>	Integral Male & Female Connectors	
<b>Operating Temperature</b>	-40°F ~ 122°F (-40°C ~ 50°C)	
<b>Storage Temperature</b>	-40°F ~ 176°F (-40°C ~ 80°C)	
<b>Humidity</b>	0-95% Non Condensing	

## OUTPUT

<b>CCT &amp; SDCM</b>	2200K - 6500K 2 Step MacAdam Ellipse
<b>Color Bin Tolerance</b>	Single Bin
<b>CRI</b>	95 - 97
<b>Lumen Maintenance</b>	90,000 Hours L50 @ 25°C 70,000 Hours L50 @ 50°C
<b>Testing Data</b>	Light Data LM-79-08 & LM-80-08

## ELECTRICAL

<b>Input Voltage</b>	100-277V AC 50Hz/60Hz
<b>Control</b>	DMX 512
<b>Power Factor</b>	≥ 0.96

## BEAM ANGLES

	SO	HO	HO+
6°		•	
10°		•	
25°		•	
40°		•	
10°x40°		•	
30°x60°		•	
Forward Throw Asymmetric		•	
30°x100°	•		•
• Available			

## MODA TECHNOLOGY

moda**SOFTWARE**™

moda**HARDWARE**™

moda**DMX**™

moda**DRIVER**™

moda**ZERO BIN**™

moda**OPTIC**™

moda**LINEAR OPTIC**™

moda**DYNAMIC WHITE**™

moda**THERMAL MANAGEMENT**™

moda**GUARD**™

moda**SEAL**™

moda**AIRFLOW**™

moda**COMMUNICATE**™

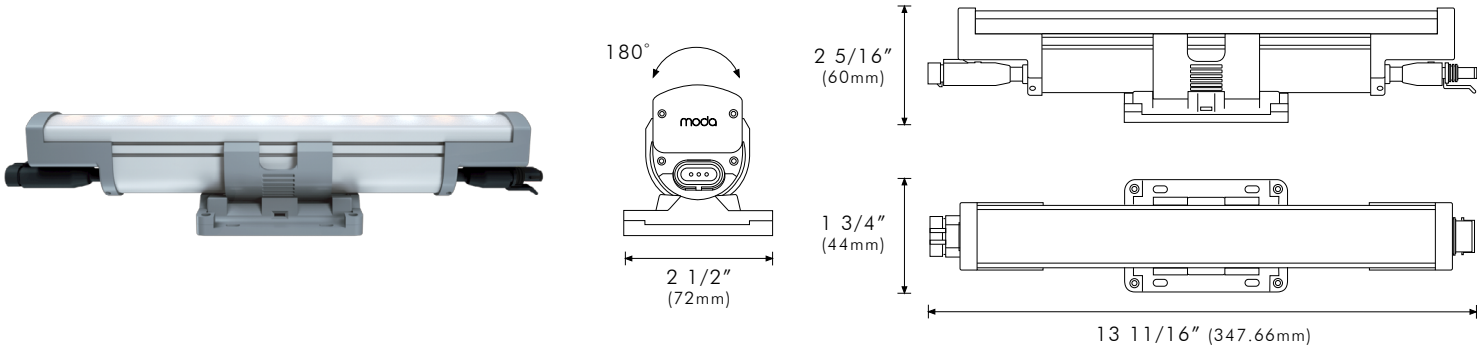
moda**KWIK CONNECT**™



**Certification** Tested to UL & CSA by Intertek For Use in USA & CANADA. Exceeds ANSI C78.377-2015, CE, C-Tick, RoHS, & WEEE Compliant.

**Class** 1

**Warranty** 3 Year Limited Warranty



DMX

Output	CCT	6°		10°		25°	
		Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	22K - 65K	1208.00 - 1353.47	120.80 - 135.34	1196.00 - 1341.47	119.60 - 134.14	1182.00 - 1327.47	118.20 - 132.74

Output	CCT	40°		10°x40°		30°x60°	
		Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	22K - 65K	1172.00 - 1317.47	117.20 - 131.74	1163.00 - 1308.47	116.30 - 130.84	1038.39 - 1184.54	103.83 - 118.45

Output	CCT	30°x60°x5°	
		Lumens	Efficacy
HO	22K - 65K	1036.10 - 1182.54	103.61 - 118.25

Output	CCT	30°x100°	
		Lumens	Efficacy
SO	22K - 65K	645.84 - 748.80	64.58 - 74.88
HO+	22K - 65K	1035.93 - 1197.61	103.59 - 119.76

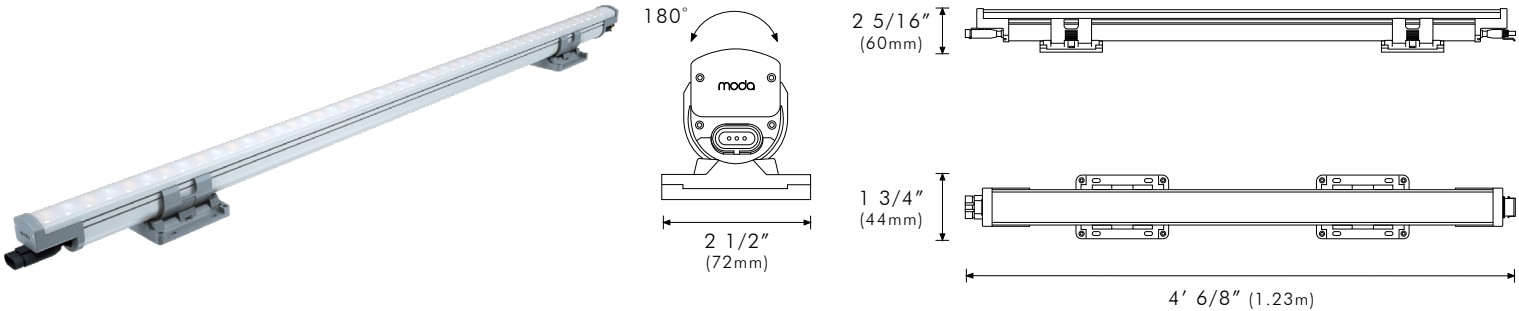
Power Consumption

120-277V AC 10W

Max Run Lengths

120-277V AC 80ft

Output	CRI
SO	95
HO	97
HO+	98



DMX

Output	CCT	6°		10°		25°	
		Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	35K - 65K	3704.69 - 4282.88	92.61 - 107.07	3780.81 - 4370.88	94.52 - 109.27	3768.70 - 4356.88	94.21 - 108.92

Output	CCT	40°		10°x40°		30°x60°	
		Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
HO	35K - 65K	3760.05 - 4346.88	94.00 - 108.67	3752.26 - 4337.88	93.80 - 108.44	3749.67 - 4334.88	93.74 - 108.37

Output	CCT	30°x60°x5°	
		Lumens	Efficacy
HO	35K - 65K	3747.94 - 4332.88	93.69 - 108.32

Output	CCT	30°x100°	
		Lumens	Efficacy
SO	35K - 65K	3788.70 - 4380.00	94.71 - 1090.50
HO+	35K - 65K	4148.26 - 4795.68	103.70 - 119.89

Power Consumption

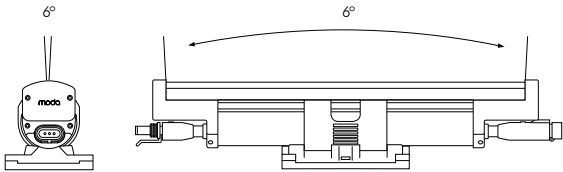
120-277V AC 40W

Max Run Lengths

120-277V AC 80ft

Output	CRI
SO	95
HO	97
HO+	98

6° Beam Angle



Polar Candela Distribution (HO)

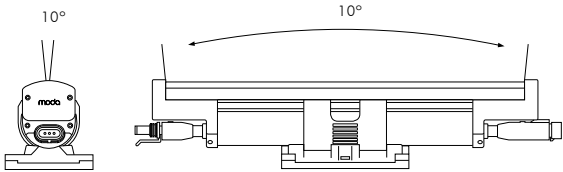


Illuminance at a Distance (HO)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	61.63 fc	195.03 fc	0.3 ft	0.2 ft
4.0 ft	15.40 fc	48.75 fc	0.7 ft	0.6 ft
6.0 ft	7.70 fc	24.37 fc	1.1 ft	1.0 ft
8.0 ft	3.85 fc	12.18 fc	1.5 ft	1.4 ft
10.0 ft	1.92 fc	6.09 fc	2.0 ft	1.9 ft
12.0 ft	1.54 fc	4.87 fc	2.4 ft	2.3 ft

■ Vert. Spread: 6°      ■ Horiz. Spread: 6°

10° Beam Angle



Polar Candela Distribution (HO)

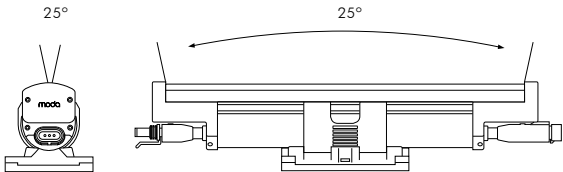


Illuminance at a Distance (HO)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	52.10 fc	190.36 fc	0.4 ft	0.3 ft
4.0 ft	13.02 fc	47.59 fc	0.8 ft	0.7 ft
6.0 ft	6.51 fc	23.79 fc	1.2 ft	1.1 ft
8.0 ft	3.25 fc	11.89 fc	1.6 ft	1.5 ft
10.0 ft	1.62 fc	5.94 fc	2.1 ft	2.0 ft
12.0 ft	1.20 fc	4.75 fc	2.5 ft	2.4 ft

■ Vert. Spread: 10°      ■ Horiz. Spread: 10°

25° Beam Angle



Polar Candela Distribution (HO)

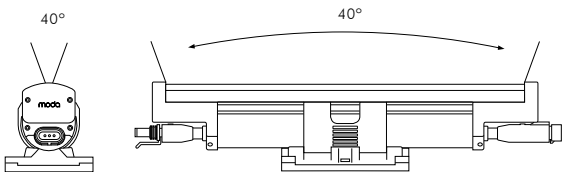


Illuminance at a Distance (HO)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	31.96 fc	117.81 fc	0.5 ft	0.5 ft
4.0 ft	7.99 fc	29.45 fc	1.0 ft	1.0 ft
6.0 ft	3.99 fc	14.72 fc	1.5 ft	1.6 ft
8.0 ft	1.99 fc	7.36 fc	2.0 ft	2.2 ft
10.0 ft	0.99 fc	3.68 fc	2.5 ft	2.7 ft
12.0 ft	0.79 fc	2.94 fc	3.0 ft	3.2 ft

■ Vert. Spread: 25°      ■ Horiz. Spread: 25°

40° Beam Angle



Polar Candela Distribution (HO)



Illuminance at a Distance (HO)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	14.59 fc	54.13 fc	1.0 ft	0.8 ft
4.0 ft	3.64 fc	13.53 fc	1.9 ft	1.5 ft
6.0 ft	1.82 fc	6.76 fc	2.8 ft	2.4 ft
8.0 ft	0.91 fc	3.38 fc	3.8 ft	3.2 ft
10.0 ft	0.45 fc	1.69 fc	4.8 ft	4.0 ft
12.0 ft	0.36 fc	1.35 fc	5.7 ft	4.7 ft

■ Vert. Spread: 40°      ■ Horiz. Spread: 40°

10°X40° Beam Angle



Polar Candela Distribution (HO)



Illuminance at a Distance (HO)

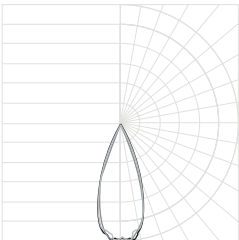
	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	36.48 fc	136.06 fc	0.7 ft	0.5 ft
4.0 ft	9.12 fc	34.01 fc	1.5 ft	1.0 ft
6.0 ft	4.56 fc	17.00 fc	2.2 ft	1.4 ft
8.0 ft	2.28 fc	8.50 fc	3.0 ft	1.9 ft
10.0 ft	1.14 fc	4.25 fc	4.6 ft	2.4 ft
12.0 ft	0.91 fc	3.40 fc	4.4 ft	3.0 ft

■ Vert. Spread: 10°      ■ Horiz. Spread: 40°

30°x60° Beam Angle



Polar Candela Distribution (HO)



Illuminance at a Distance (HO)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	92.81 fc	346.79 fc	1.3 ft	2.0 ft
4.0 ft	23.20 fc	86.69 fc	3.1 ft	4.7 ft
6.0 ft	11.60 fc	43.34 fc	4.0 ft	6.6 ft
8.0 ft	5.80 fc	21.67 fc	5.8 ft	9.3 ft
10.0 ft	2.90 fc	10.83 fc	7.0 ft	11.2 ft
12.0 ft	2.32 fc	8.66 fc	9.0 ft	14.0 ft

■ Vert. Spread: 30°      ■ Horiz. Spread: 60°

30°x60°x5° Beam Angle



Polar Candela Distribution (HO)

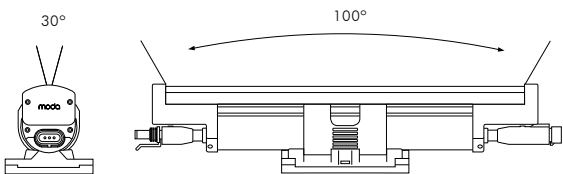


Illuminance at a Distance (HO)

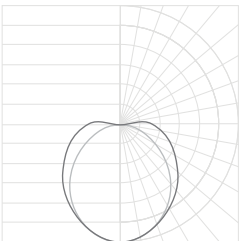
	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	13.45 fc	50.34 fc	1.3 ft	0.3 ft
4.0 ft	3.36 fc	12.58 fc	2.6 ft	0.9 ft
6.0 ft	1.68 fc	6.29 fc	3.9 ft	1.3 ft
8.0 ft	0.84 fc	3.14 fc	5.2 ft	1.6 ft
10.0 ft	0.42 fc	1.57 fc	6.5 ft	1.9 ft
12.0 ft	0.33 fc	1.25 fc	7.87 ft	2.6 ft

■ Vert. Spread: 30°      ■ Horiz. Spread: 60°

30°x100° Beam Angle



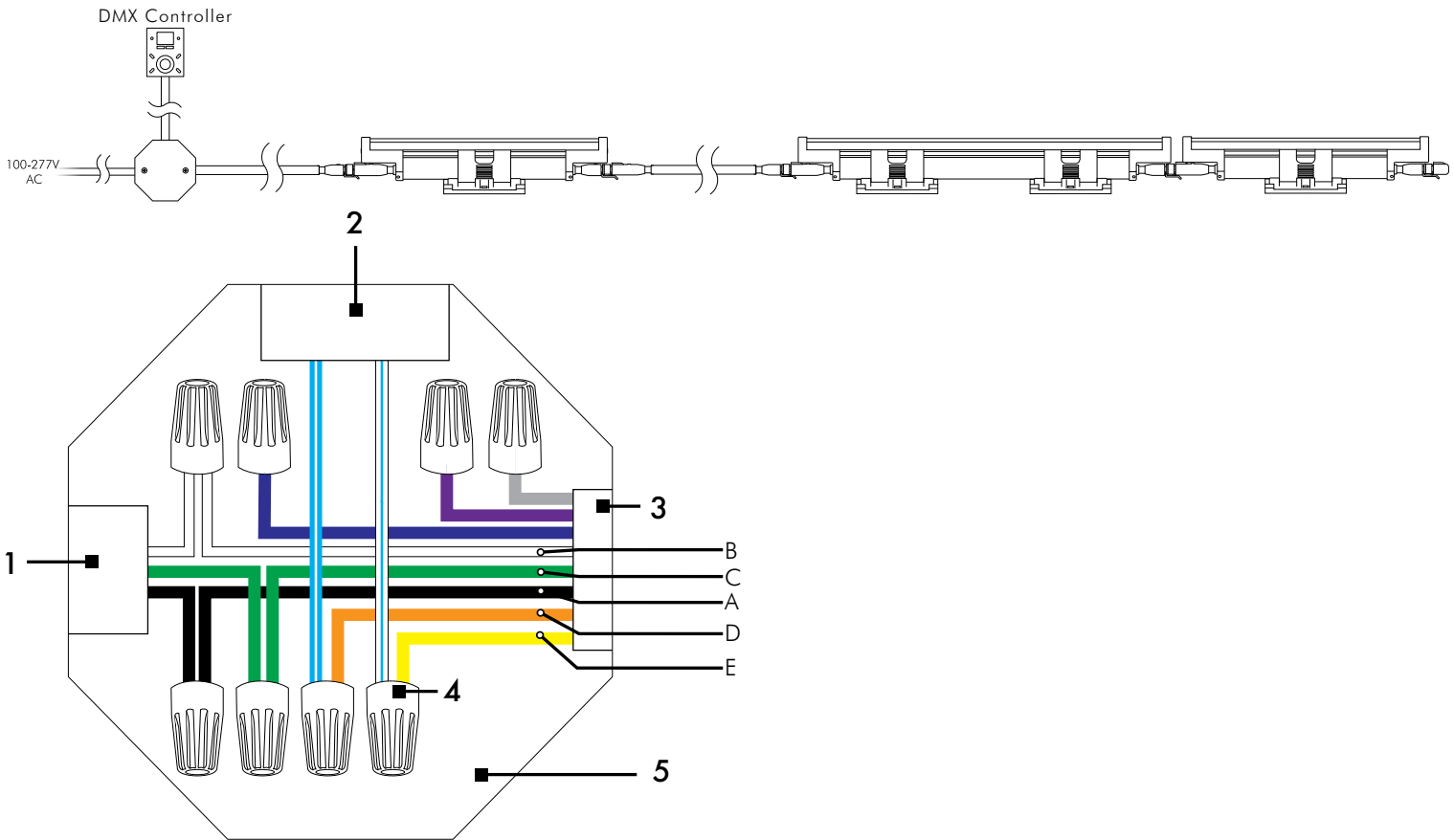
Polar Candela Distribution (HO+)



Illuminance at a Distance (HO+)

	Center Beam FC		Beam Width	
	1 Foot	4 Foot		
2.0 ft	110.01 fc	444.04 fc	1.3 ft	2.0 ft
4.0 ft	27.75 fc	111.01 fc	3.1 ft	4.2 ft
6.0 ft	1.61 fc	55.50 fc	4.0 ft	6.6 ft
8.0 ft	0.80 fc	27.75 fc	5.8 ft	9.3 ft
10.0 ft	0.40 fc	13.87 fc	7.0 ft	11.2 ft
12.0 ft	0.32 fc	11.10 fc	9.0 ft	14.0 ft

■ Vert. Spread: 30°      ■ Horiz. Spread: 100°



Wiring Legend

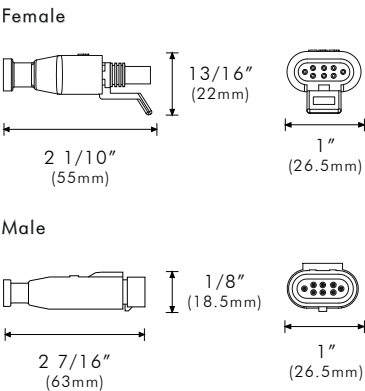
1	Power 100-277V AC
2	DMX Controller
3	8 Pin Leader Cable
4	Junction Box
5	Wiring Nuts

8 Pin Leader Cable

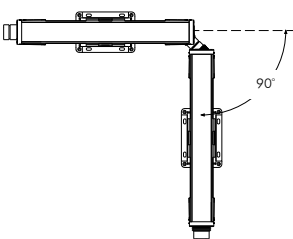
	UL/cUL	CE/CCC*
A 100-277V AC	Black	Brown
B Neutral	White	Blue
C Ground	Green	Green/ Yellow
D Data Positive	Orange	Orange
E Data Negative	Yellow	Yellow

\*Not illustrated

DMX Connectors



Angle Adjustment

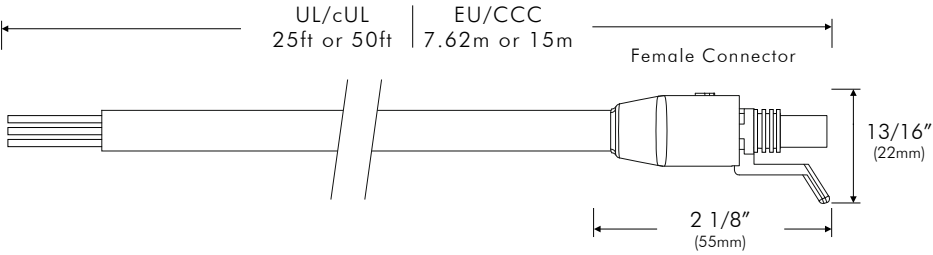




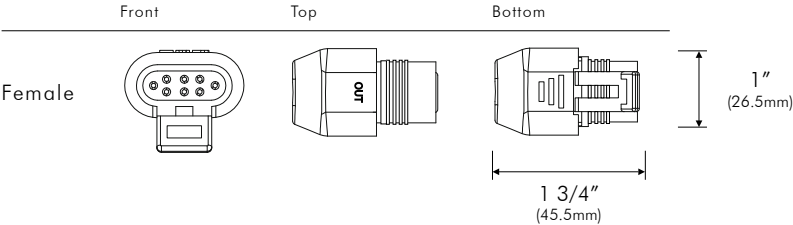
DMX LEADER CABLES

Moda Cove Exterior 8 Pin Leader Cables

	UL/cUL	EU/CCC
Lengths	25ft and 50ft	7.62m and 15m
Color	Black	Black



Connectors



Pin Assignment

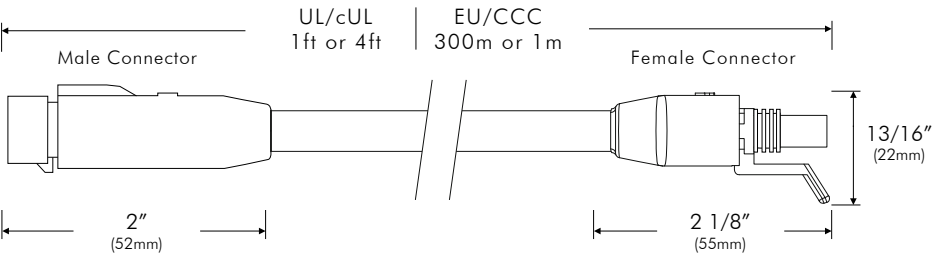


		UL/cUL	EU/CCC
1	Live 100-277V	Black	Brown
2	Neutral	White	Blue
3	Ground	Green	Green/ Yellow
3	DMX Positive	Orange	Orange
4	DMX Negative	Yellow	Yellow

DMX JUMPER CABLES

Moda Cove Exterior 8 Pin Jumper Cables

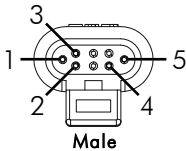
	UL/cUL	EU/CCC
Lengths	1ft and 4ft	300mm and 1m
Color	Black	Black



Connectors



Pin Assignment



		UL/cUL	EU/CCC
1	Live 100-277V	Black	Brown
2	Neutral	White	Blue
3	Ground	Green	Green/ Yellow
3	DMX Positive	Orange	Orange
4	DMX Negative	Yellow	Yellow



		UL/cUL	EU/CCC
1	Live 100-277V	Black	Brown
2	Neutral	White	Blue
3	Ground	Green	Green/ Yellow
3	DMX Positive	Orange	Orange
4	DMX Negative	Yellow	Yellow

MGE - - S1 - DW - -



COMPLETE SKU SAMPLE: MGE-HO-S1-DW-4-25

**A - FIXTURE & LOCATION**

MGE	—	Moda Graze Exterior
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**B - LIGHT OUTPUT**

SO	—	Standard Output
HO	—	High Output
HO+	—	High Output Plus

**C - SERIES NUMBER**

S1	—	Series 1
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**D - LED COLOR**

DW	—	Dynamic White
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**E - LENGTH**

1	—	1FT
4	—	4FT

**F - OPTIC**

6	—	6° x 6°
10	—	10° x 10°
25	—	25° x 25°
40	—	40° x 40°
140	—	10° x 40°
360	—	30° x 60°
365	—	30° x 60° x 5°

ACCESSORIES	DESCRIPTION	SKU
Leader Cable US 8 Pin 10ft	Power to first fixture of run	MLCI-US-8PIN-G-10FT
Leader Cable US 8 Pin 25ft	Power to first fixture of run	MLCI-US-8PIN-G-25FT
Jumper Cable US 8 Pin 1ft	Connection between fixtures	MJCI-US-8PIN-G-1FT
Jumper Cable US 8 Pin 4ft	Connection between fixtures	MJCI-US-8PIN-G-4FT
Leader Cable EU 8 Pin 3m	Power to first fixture of run	MLCI-EU-8PIN-G-3M
Leader Cable EU 8 Pin 7.62m	Power to first fixture of run	MLCI-EU-8PIN-G-7.62M
Jumper Cable EU 8 Pin 300mm	Connection between fixtures	MJCI-EU-8PIN-G-300MM
Jumper Cable EU 8 Pin 1m	Connection between fixtures	MJCI-EU-8PIN-G-1M
Terminator 8 Pin	Must be fixed to last fixture for safety	MTI-8PIN-G
Interior Bracket Lock	Holds fixture in place for vertical installations	MCGI-BL-G

CONTROLS	DESCRIPTION	SKU
Kandi Touch	DMX 512 Controller Available in black and white	KND-TCH-B KND-TCH-W

CONTROL ACCESSORIES	DESCRIPTION	SKU
Belden Shielded Cable 500ft	RS-458 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	BDL-9841-500FT
Belden Shielded Cable 1000ft	RS-458 Cable for DMX, 24 AWG stranded TC conductors, polyethylene insulation	BDL-9841-1000FT