

MaxiSEAL



Data over Power distribution
to the fixtures



2 Core
Data over Power



DMX RGBW
Controllable

MaxiLED Marker Effect Series DMX RGBW



KEY FEATURES

- IP68 (Depth 1 Meter temporary)
- IK10 (Optional)
- 48VAC Data over Power 2 wire system
- 512 DMX RGBW Controllable
- 150/250mm Recessed sleeve available
- 15°/25°/40°/170° (no optic)
- MaxiSEAL (Optional)

Product Overview

The MaxiLED Marker Effects Series provides durable in-grade fixtures for step and pathway illumination. Connect up to 100 fixtures on a single run and control lighting effects with DMX-512. Matte glass reduces glare and delivers smooth colorful lighting across the circular surface of the fixture using dependable CREE LEDs. Manufactured from quality materials with a MaxiSEAL finish (Optional) and incorporating our Patented 2 wire data over power technology, providing full DMX 512 control down the 2 power wires makes it the simplest to install and most cost effective product of its type in the market place today. MaxiMarker Effect comes standard with a Pedestrian traffic impact rating but has an optional Drive-Over rating of 5000kg IK10 glass lens and an IP68 factory-sealed optical chamber.



Specifications

MaxiLED Marker Effect

Dimming

DMX512 Dimmable (Data Over power):	YES
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LED Options

(Cree XQE Led's) RGBW:	YES
(Cree XQE Led's) RGBWW:	YES
Intelligent white 2700k-6000K:	YES

Electrical specification

Power input:	48VAC Data Over Power MaxiLINK system
LED Current:	100ma
Watts per unit:	2.4w
Lumens RGBW	
Matt Glass (Full On):	25 lumens
Lumen Maintenance 85%:	90,000Hrs

System Cable Distances

Max. Units per system on 1.5mm sq cable:	100 units
Max distance from 1st to last unit on 1.5mm sq cable:	100m (328 ft)

LeaderCable

Max. 1.5mm sq cable from MaxiLINK to 1st fitting:	15m (49.2ft)
Max. 2.5mm sq cable from MaxiLINK to 1st fitting:	75m (246ft)

Protection

IP68 (Depth 1 Meter temporary)	YES
Impact Protection (Standard):	Pedestrian traffic
Drive over 5000Kg (Optional):	IK10
Operation Temperature:	-25 to +50
Thermal Protection cut out at 70°C:	YES

Finishes

MaxiSEAL Black:	YES
MaxiSEAL Silver:	YES
Black / Silver Anodised:	YES
Durable Stainless steel:	YES
RAL Powder Coat:	YES

Dimensions

Diameter with Flange (mm):	88 mm (3.46 ins)
Depth (mm):	85 mm (3.34 ins)

Dimensions Sleeve

Diameter (mm):	80 mm (3.15 ins)
Height (mm):	150/250mm (6inch/9.85inch)

Listings:	UL LISTED, CE, UKCA
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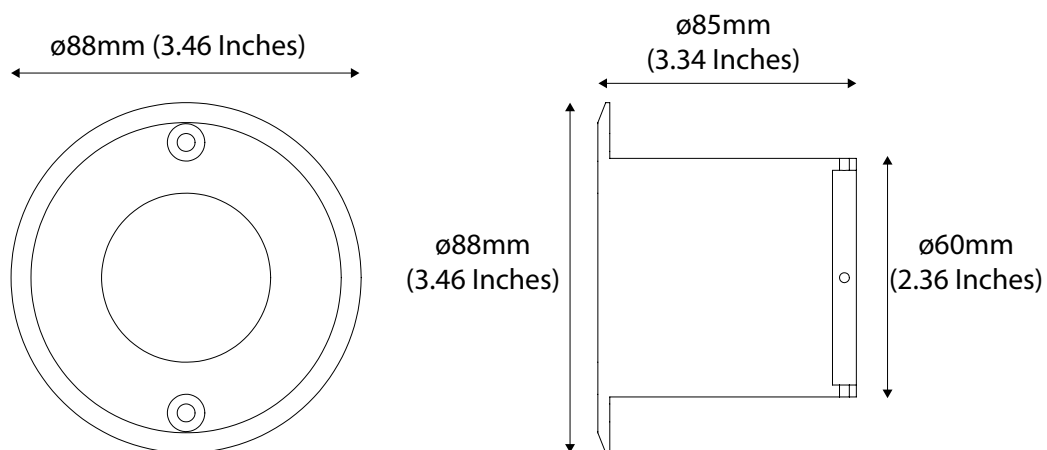


UK Designed and
Manufactured

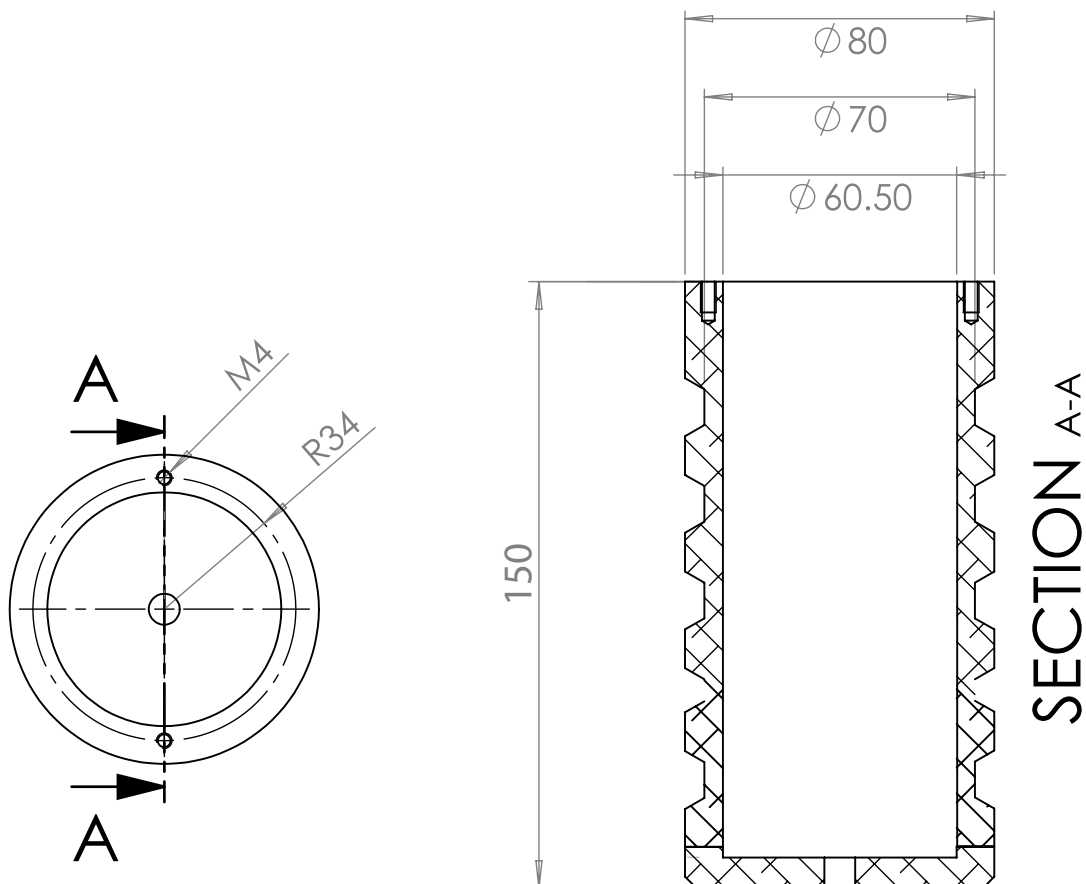
MaxiLED Lighting

FIXTURE IN INSTALLATION SLEEVE

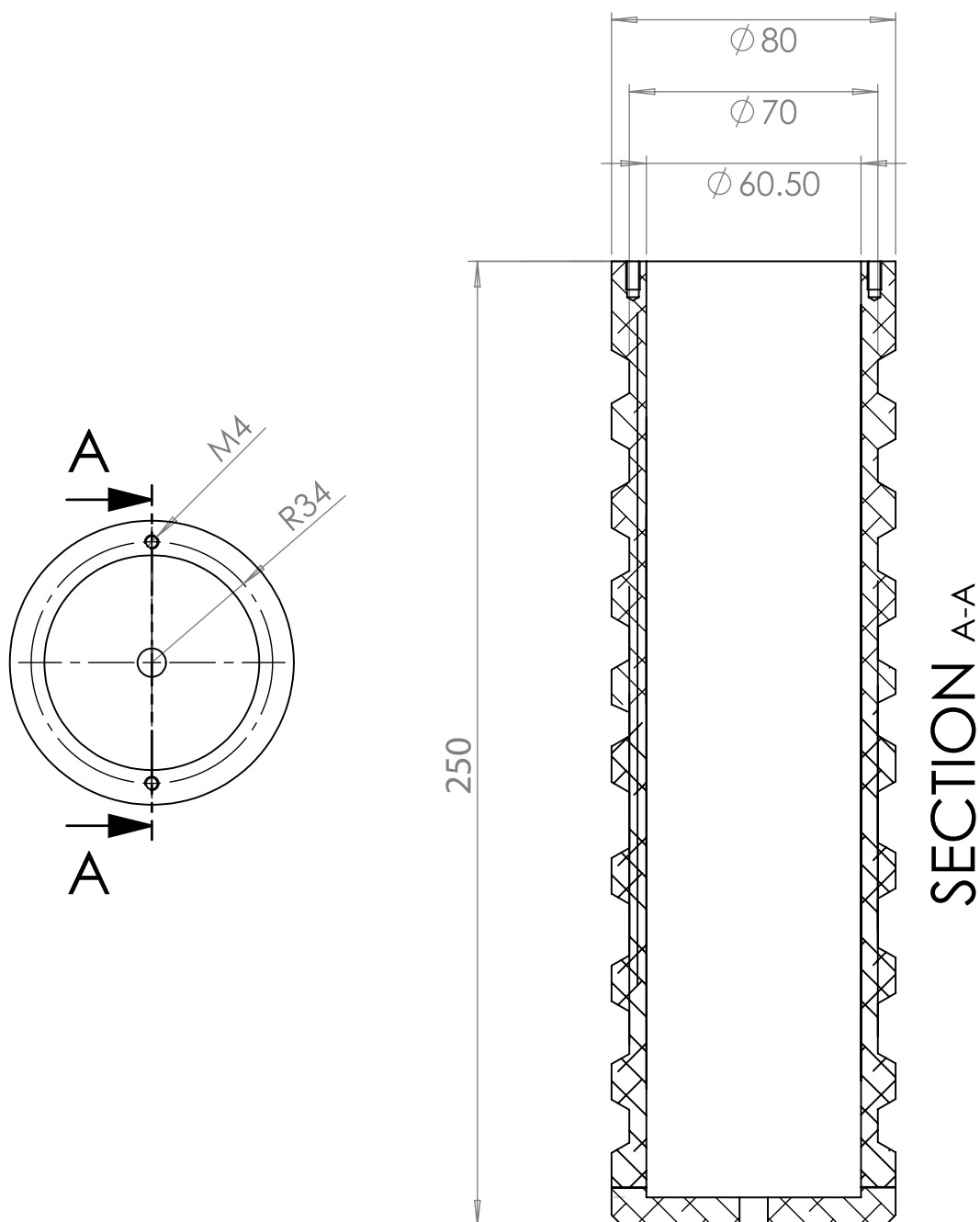
MM (INCHES)



Measurements in MM



Measurements in MM



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Installation Sleeve



Specification

Dimensions & Weights

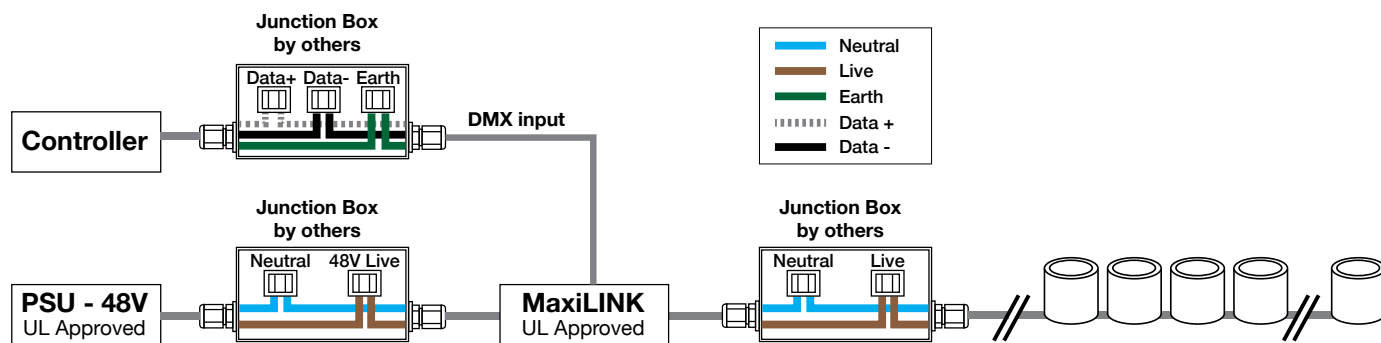
Sleeve Diameter :	80 mm
Sleeve Depth :	150mm / 250mm
Weight KG :	375g / 590g

Material

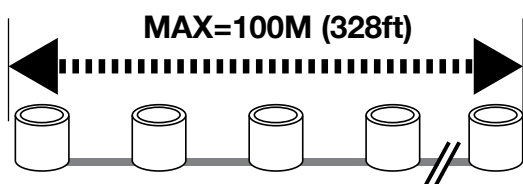
One-piece black PVC sleeve supports fixture in inground applications.



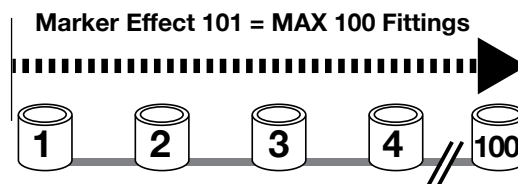
This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes.
Failure to comply with the installation instructions can result in serious injury or death.



Marker Effect
Maximum run distance



102 Maximum Run length



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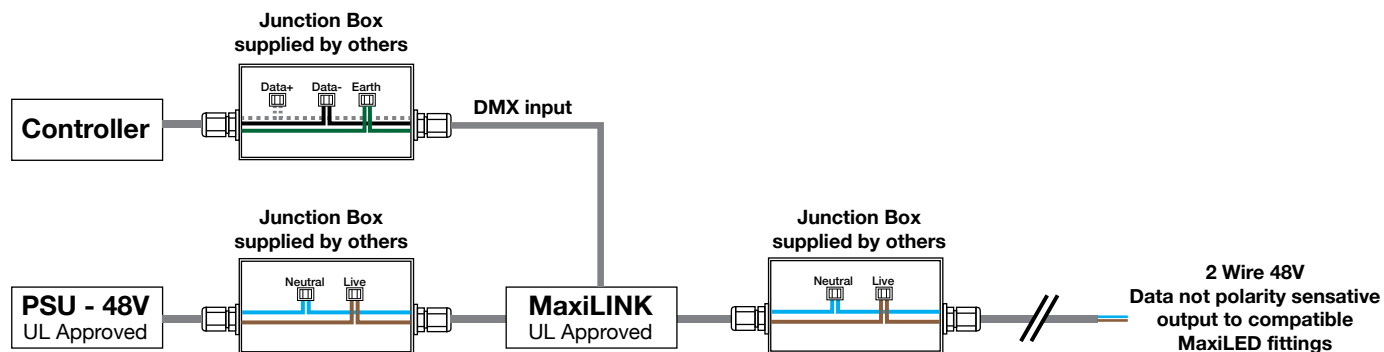
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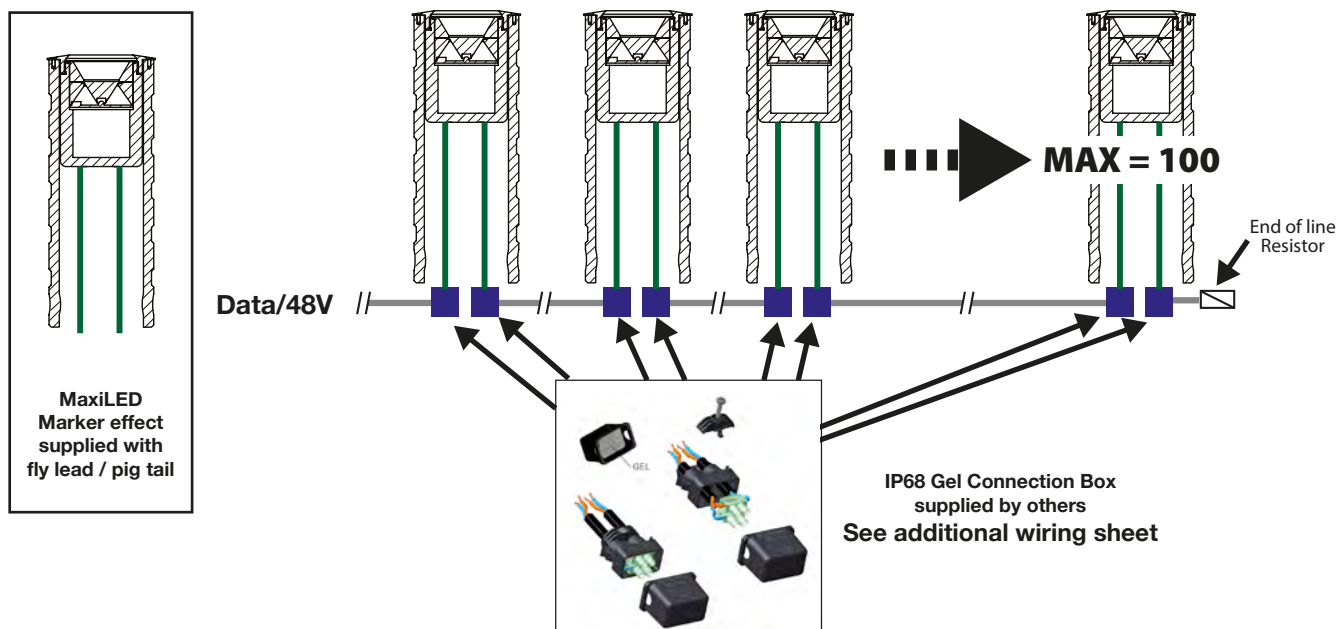
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1 Basic Wiring layout to MaxiLED fittings



Wiring IP68 Gel connectors. Maximum 100 fittings per power supply



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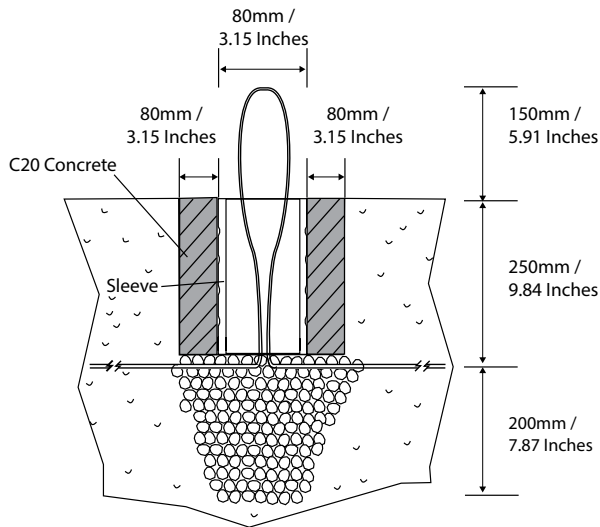


WARNING: ONLY 48V / DATA MAXILINK ONLY



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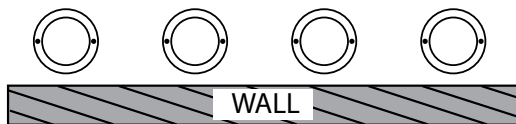
1 Preparing Ground Work



- Prepare ground work.
Trench minimum 400mm / 16 Inches deep.
- Fill lower half with pea gravel for drainage.
- Place In ground sleeve flush with ground.
- Add C20 Concrete.

Always prepare 30cm of drainage gravel. Fill the installation sleeve with water and check that it completely drains within 30mins.
If not find a further drainage solution.

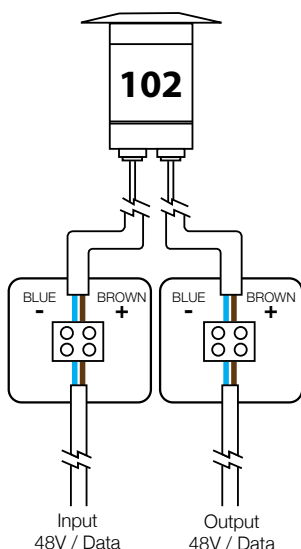
2 Sleeve Orientation



NOTE:

- Make sure sleeve holes are all aligned so that the fittings will be uniform after final installation.
(Illustration for MaxiDEPTH and Marker Effect)

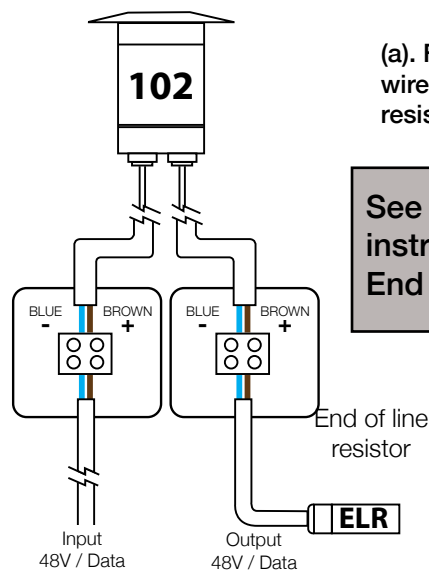
3 Make connections using IP68 gel connectors



- Using a minimum IP68 submersible joint inline with local authority regulations
- Make connection.
(As illustrated)
- Cable type must be 1.5mm sq with a overall diameter of 6-8mm

See installation instruction sheet for Gel connectors

4 Final fitting



- Final fitting must be wired to the End of line resistor (ELR)

See installation instruction sheet for End of line resistors

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MaxiLED Marker Effect Wiring using IP68 Gel connector



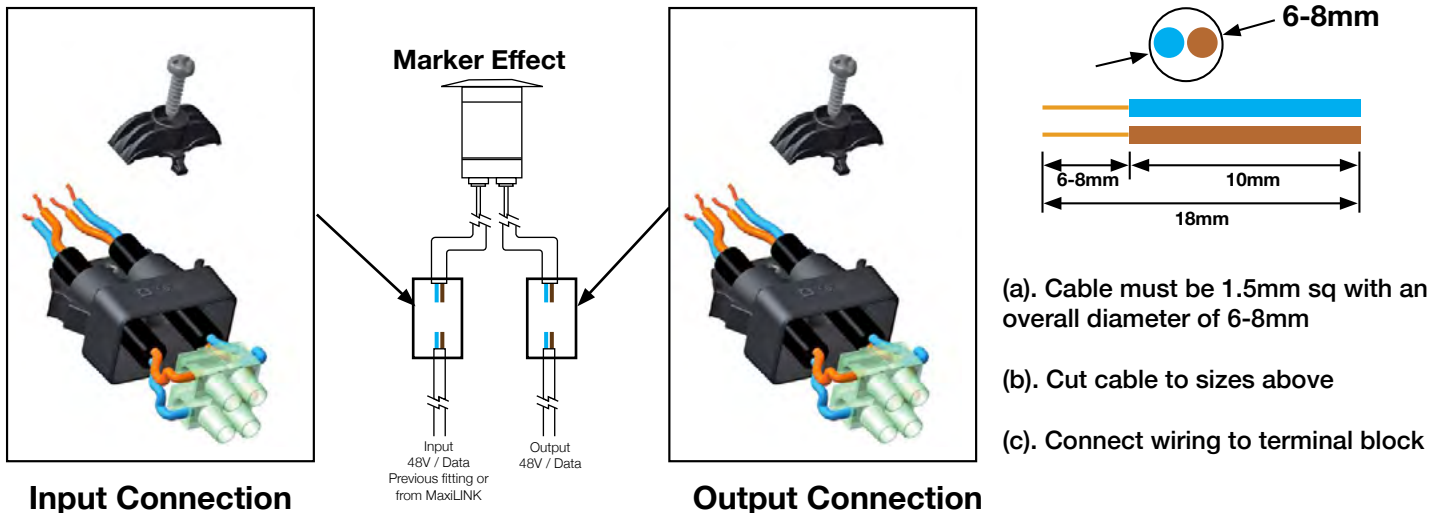
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1 Wiring

NOTE: Cable must be 1.5mm sq with an overall diameter of 6-8mm



2 Apply Gel cover



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1 Connect the End of Line Resistor



(a). Connect the End of Line Resistor Cable (Supplied Separately.) to the end of the 48V Data line after the last fitting.

NOTE: On the final lamp fitting an End of Line Connector MUST be Connected to allow the DMX data to 'Communicate.'
Without the End of Line Resistor the lamps will show DATA DISRUPTION
Connection is NOT Polarity Sensitive.

2 Data Disruption



(a). Once the system is powered up and the DMX 512 data transmission is available the end of line units will need setting.
Only perform this operation if the installation is flickering and not responding to the 512 DMX data transmission correctly.
Remove the Black Cap.

3 Fine Tuning 512 DMX data



(a). Using a Flat screw driver, turn the adjuster fully clockwise. The lights will begin to randomly flicker.
(b). Turn the adjuster anticlockwise until the installation responds correctly, once it responds correctly continue to turn the adjuster until the installation starts to flicker again when it does stop, turn the adjuster clockwise slightly.
(c). The adjuster is now set.

4 Check list



(a). Once the lights are tuned and correct, replace the End of Line Resistor Black cap. Ensure a tight fit for a waterproof seal.

(SEE INSTALLATION INSTRUCTIONS FOR POWER SUPPLY OPTIONS.)

Product	LED	Housing	Finish	IK Rating	Other
Marker Effect ME	RGBW(6000K)	150mm Recessed sleeve RS150	Aluminium Anodized Black BA	Pedestrian Traffic PT	End of line resistor ELR
	RGBWW(3000K)	250mm Recessed sleeve RS250	Aluminium Anodized Silver SA	Drive over IK10 IK10	
	IW		MaxiSEAL Black BMS		
	2700		MaxiSEAL Silver SMS		
	3000		Stainless steel SS		
	3500		RAL(Colour) RAL		
	4000		Special SP		
	5000				
EXAMPLE:	ME	RGBWW(3000K)	RS150	BMS	PT
					ELR