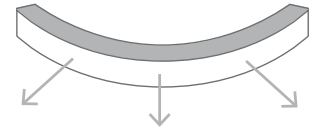


## NEON CRYSTAL | ELECTRICAL AND PHYSICAL INSTALLATION GUIDE

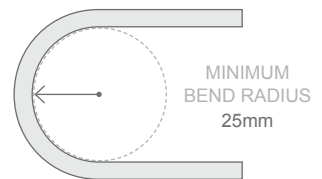
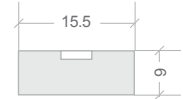


COLOUR	CODE
WARM WHITE 2700 K +/- 145 K	BL-LS-5000-27
WARM WHITE 3000 K +/- 175 K	BL-LS-5000-30
NATURAL WHITE 4000 K +/- 275 K	BL-LS-5000-40
COOL WHITE 5700 K +/- 350 K	BL-LS-5000-57
2500 - 5000K TUNEABLE WHITE	BL-LS-5050
RED 620-630NM	BL-LS-5000-R
GREEN 520-530NM	BL-LS-5000-G
BLUE 465-475NM	BL-LS-5000-B
AMBER 588-594NM	BL-LS-5000-A
RGB	BL-LS-5100
RGBW	BL-LS-5150
RGB CHASING	BL-LS-5000-RGBC

ELECTRICAL & OPTICAL DATA VARIANCE +/- 10%  
SOLD BY THE METRE  
IES FILES AVAILABLE



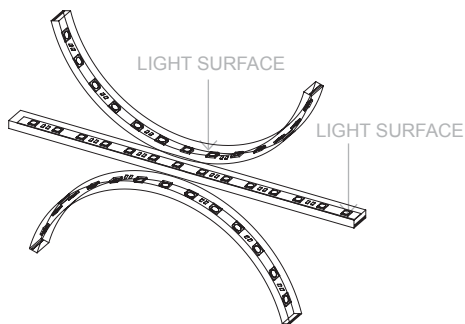
LIGHT DIRECTION  
VERTICAL BENDING



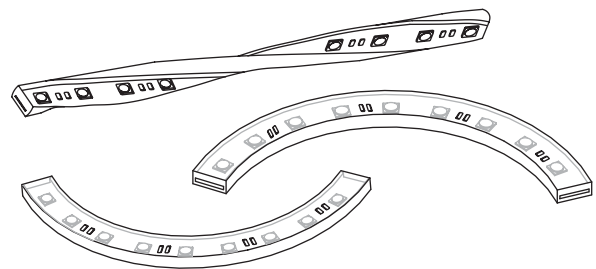
MINIMUM  
BEND RADIUS  
25mm

### BENDING PARAMETERS

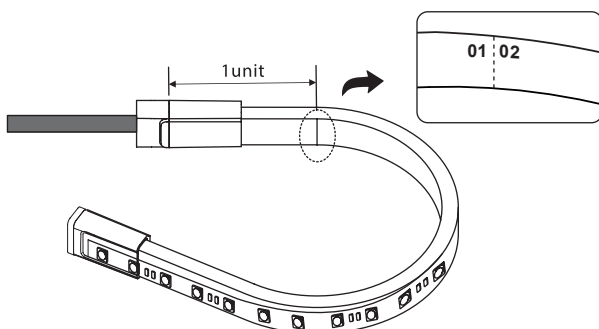
- ✓ NEON CRYSTAL CAN BE CURVED AS SHOWN BELOW



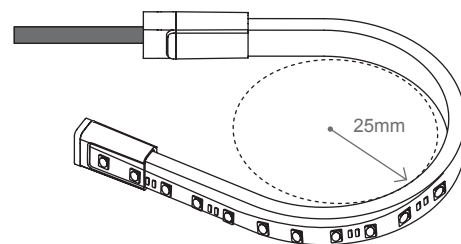
- ✗ DO NOT TWIST THE LIGHT OR BEND AGAINST THE LIGHT SURFACE



- Avoid bending LED Neon within the first unit (units are clearly marked with dashed lines on the sides of the product)



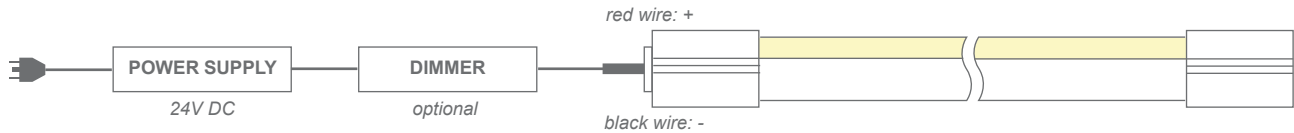
- LED Neon can be bent up to the defined "minimum bend radius" (25mm for Neon Crystal)



## NEON CRYSTAL | ELECTRICAL AND PHYSICAL INSTALLATION GUIDE

### WIRING DIAGRAMS

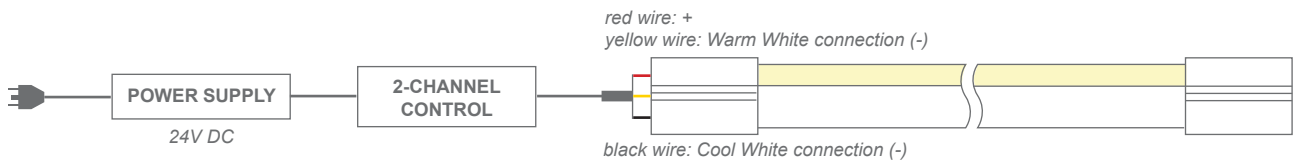
#### WHITE | SINGLE COLOUR



MAX. RUN PER POWER FEED:

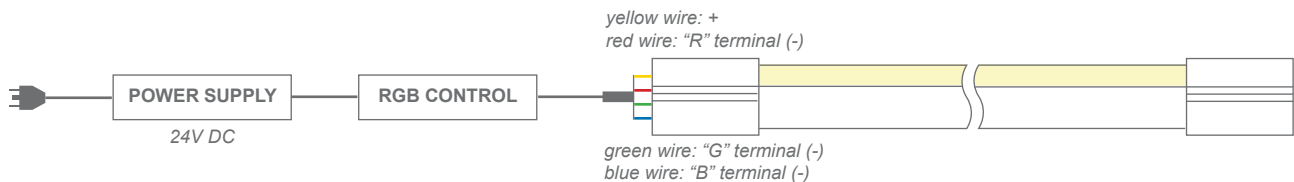
WHITE: 10m using one feed, 20m using two feeds. SINGLE COLOUR: 10m (G, B) or 15m (R, Y) using one feed, 20m (G, B) or 30m (R, A) using two feeds

#### TUNEABLE WHITE



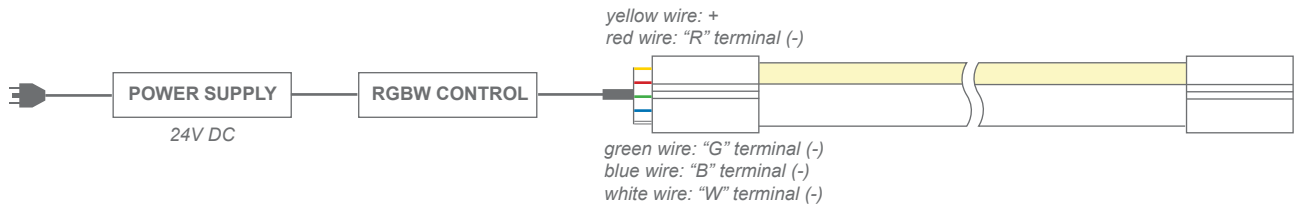
MAX. RUN PER POWER FEED: 10m using one feed, 20m using two feeds

#### RGB



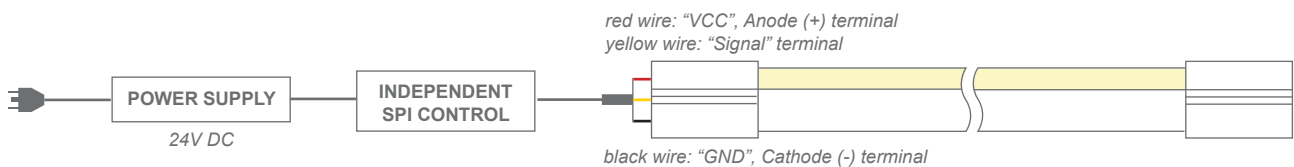
MAX. RUN PER POWER FEED: 7m using one feed, 14m using two feeds (Static full loading) or, 10m using one feed, 20m using two feeds (Dynamic operating)

#### RGBW



MAX. RUN PER POWER FEED: 5m using one feed, 10m using two feeds

#### DYNAMIC RGB 'CHASING'



DMX OPTION AVAILABLE

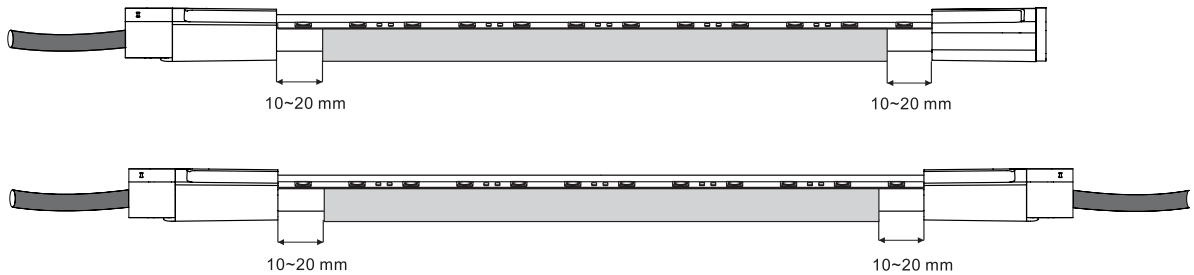
MAX. RUN PER POWER FEED: 5m using one feed, 10m using two feeds (Static full loading) or, 10m using one feed, 20m using two feeds (Dynamic operating)

- LED Neon must always be used in conjunction with a certified 24V DC power supply.
- Check the polarity of the connector before inserting the front connector and switching on the mains power.
- To minimise voltage drop and ensure consistent light output, position the power supply near to the power feed end of the LED Neon, and keep the line as short as possible
- Ensure your maximum run per power feed adheres to the guidelines; see specification sheet.
- Ensure to add 20% buffer when selecting a power supply
- Before making any cuts, installation, maintenance, or connection, be sure the mains power is disconnected.
- If essential; cut and connect LED Neon correctly. Any incorrect operation can cause damage.
- All connector joints must be connected correctly to achieve connector IP rating.

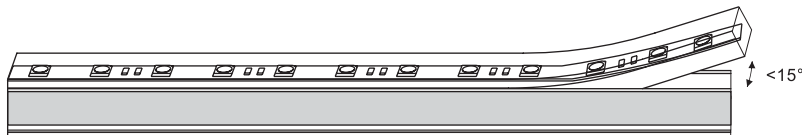
## NEON CRYSTAL | ELECTRICAL AND PHYSICAL INSTALLATION GUIDE

### PROFILE INSTALLATION REQUIREMENTS

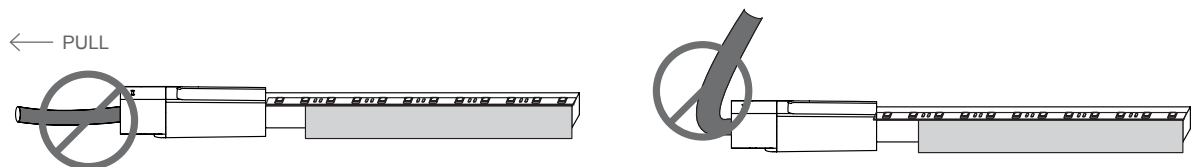
- ✔ - Ensure the supply cord is not subject to mechanical stress
- Keep 10–20mm distance between the end of the profile and the end mounting piece



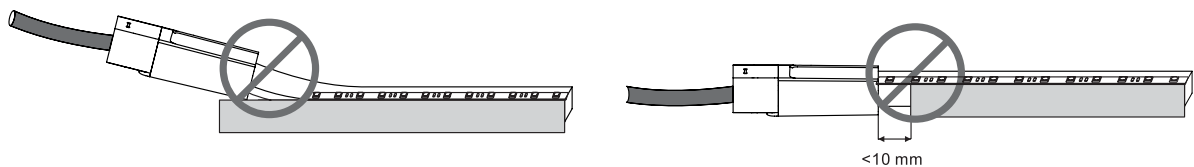
- The bend angle should be less than 15 degrees when installing LED Neon into the profile by hand



- ✘ - Avoid placing mechanical stress on the front connector cable
- Do not curl or bend the front connector cable with excessive force



- Avoid installing the profile less than 10mm from the end mounting piece



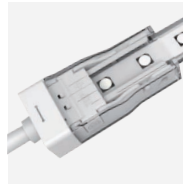
- Install the LED Neon into the profile in one direction, don't let it bow in the middle



## NEON CRYSTAL | CONNECTIONS

### SNAP CONNECTIONS - IP67

SUITABLE FOR OUTDOOR APPLICATIONS  
 MUST BE FITTED CORRECTLY FOR IP67 RATING  
 FEED CONNECTORS SUPPLIED AS 1M CABLE  
 STANDARD. CHECK FOR ALTERNATE LENGTHS  
 STANDARD INSTALLATION WITH SINGLE POWER  
 FEED:  
 FEED 01 + END CAP 02 OR FEED 02 + END CAP 01  
 DOUBLE POWER FEED: FEED 01 + FEED 02



TOP END FEED

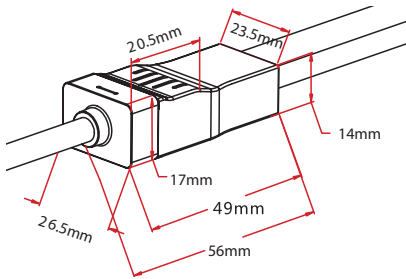


END CAP

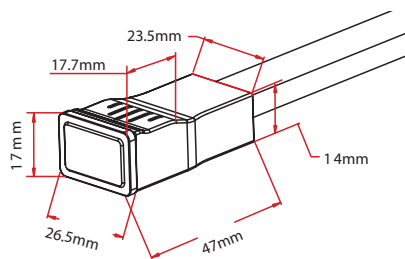


FLEXIBLE  
CONNECTOR

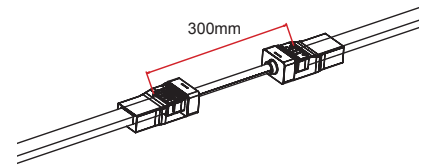
	01	02	
WHITE	BL-LS-5010	BL-LS-5011	BL-LS-5014
TUNEABLE	BL-LS-5051	BL-LS-5052	BL-LS-5053
SINGLE COLOUR	BL-LS-5010	BL-LS-5011	BL-LS-5014
RGB	BL-LS-5015	BL-LS-5016	BL-LS-5019
RGB CHASING	BL-LS-5020	BL-LS-5021	BL-LS-5024
RGBW	-	-	-



TOP END FEED



END CAP

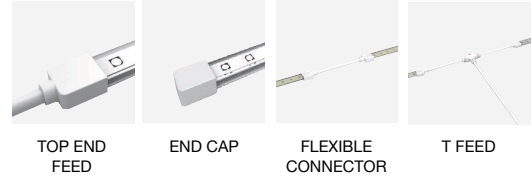


FLEXIBLE CONNECTOR

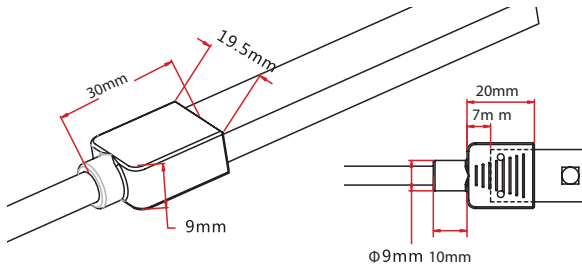
NEON CRYSTAL | CONNECTIONS

SLIMLINE INJECTION MOULDING CONNECTIONS - IP65

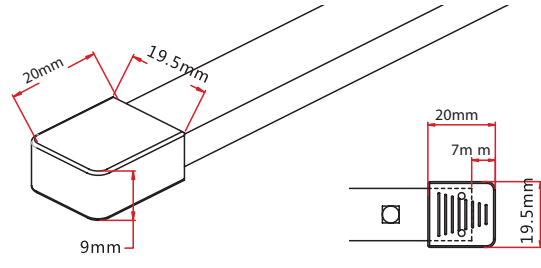
REQUIRES FITTING AT FACTORY. LEAD TIMES APPLY  
 SUITABLE FOR OUTDOOR APPLICATIONS  
 FEED CONNECTORS SUPPLIED AS 1M  
 CABLE STANDARD, CHECK FOR ALTERNATE LENGTHS



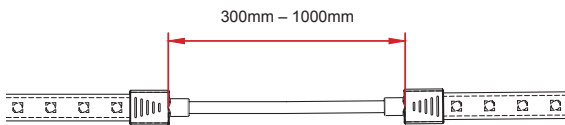
	TOP END FEED	END CAP	FLEXIBLE CONNECTOR	T FEED
WHITE	●	●	●	●
TUNEABLE	●	●	●	●
SINGLE COLOUR	●	●	●	●
RGB	●	●	●	●
RGB CHASING	●	●	●	●
RGBW	●	●	●	●



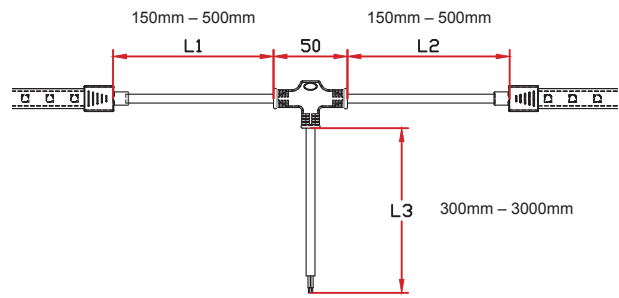
TOP END FEED



END CAP

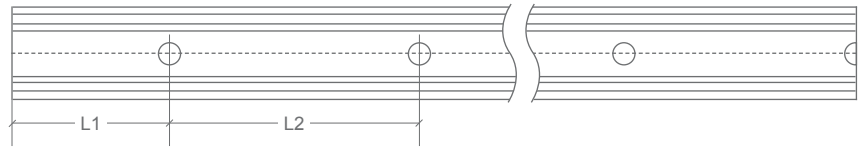


FLEXIBLE CONNECTOR

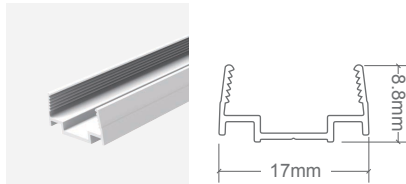
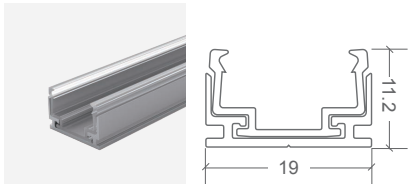


T-FEED

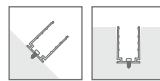
NEON CRYSTAL | MOUNTING ACCESSORIES



CODE	ACCESSORY	L1	L2	HOLE DIMENSIONS	HOLE NUMBER
BL-LS-5001	SELF-LOCKING ALUMINIUM PROFILE 2m	100mm	200mm	Ø3.5mm	10
BL-LS-5002	SELF-LOCKING ALUMINIUM V2 MOUNTING CLIP 35mm	17.5mm	-	Ø3.5mm	1
BL-LS-5003	PLASTIC PROFILE 2m	100mm	200mm	Ø3.5mm	10



PLASTIC AND ALUMINIUM  
PROFILE / MOUNTING CLIP



PLASTIC PROFILE 2M