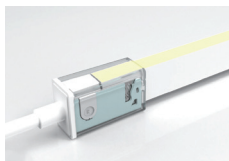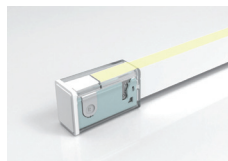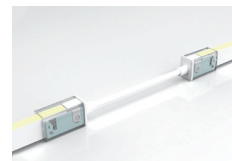# NEON X | IP67 DIY SNAP CONNECTORS

DIY SNAP CONNECTORS CAN BE PRE-FITTED AT FACTORY OR FITTED ON-SITE (SEE NEON X INSTALLATION GUIDE FOR SNAP CONNECTOR INSTRUCTIONS). SUITABLE FOR OUTDOOR APPLICATIONS. FOR UNDERWATER APPLICATIONS, USE IP68 INJECTION INJECTION CONNECTIONS ONLY.

CABLE LENGTHS GIVEN ARE STANDARD, CAN BE MADE LONGER BY REQUEST.

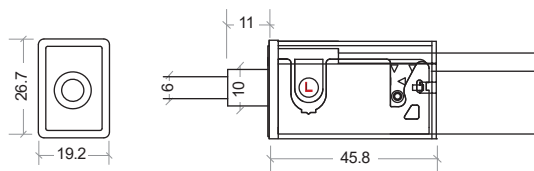|	DIRECT ENTRY	END CAP	FLEXIBLE CONNECTOR
CODES			
SINGLE COLOUR	NEON-SNAP-PF-SC	NEON-SNAP-EC-SC	NEON-SNAP-FC-SC
TUNEABLE	NEON-SNAP-PF-TW	NEON-SNAP-EC-TW	✖
RGB	NEON-SNAP-PF-RGB	NEON-SNAP-EC-RGB	✖
RGBW	✖	NEON-SNAP-EC-RGBW	✖
DMX RGB CHASING	✖	NEON-SNAP-EC-RGBC	✖
DMX RGBW CHASING	✖	NEON-SNAP-EC-RGBWC	✖

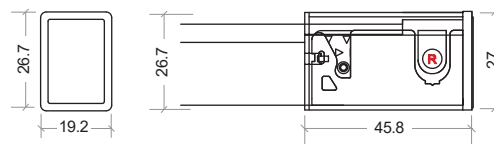**RGBW, DMX RGB CHASING AND DMX RGBW CHASING**:
ONLY END CAPS ARE AVAILABLE, WHICH CAN ALLOW FOR THE SHORTENING OF LENGTHS ON-SITE (END CAP SIDE) IF REQUIRED.
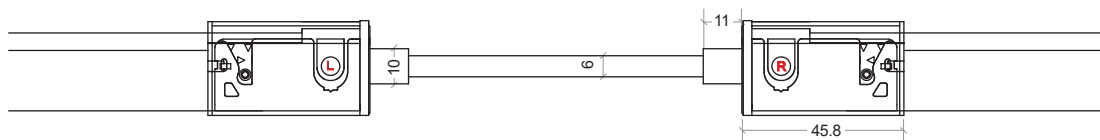**NOTE:** THAT THIS WILL REDUCE ANY EXISTING IP RATING TO IP67.
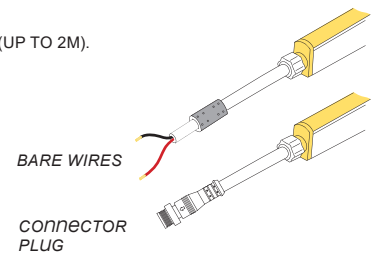
DIRECT ENTRY
600mm cable

END CAP

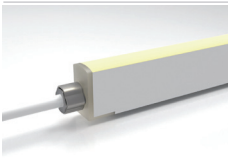### FLEXIBLE CONNECTOR
300mm cable

NEON X | IP68 INJECTION MOULDING
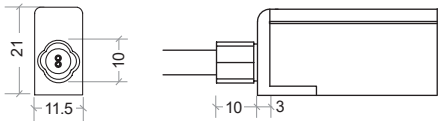
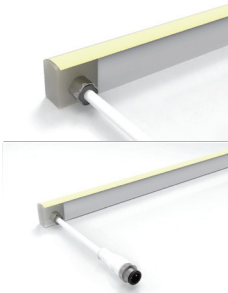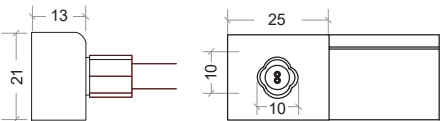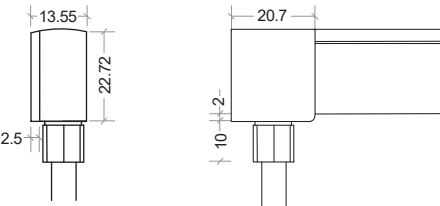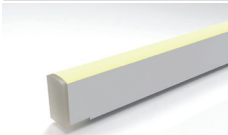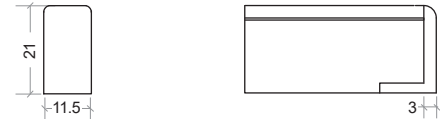REQUIRES FITTING AT FACTORY. LEAD TIMES APPLY. SUITABLE FOR OUTDOOR & SUBMERGED APPLICATIONS (UP TO 2M).
CABLE LENGTHS GIVEN ARE STANDARD, CAN BE MADE LONGER BY REQUEST.

For IP68 injection moulding there are two cable options available - bare wires or plugs.
The below chart shows the injection moulding dimensions for both types.

Bare end cables come with a standard cable length of 600mm. It is recommended to
ensure the feeder cable is long enough to reach to where connections can be made (cables
can be made longer upon request).

IP68 Connector cable plugs are designed for "plug-and-play" type installations (see next
page for information about the plug connectors).

BARE WIRES

CONNECTOR PLUG

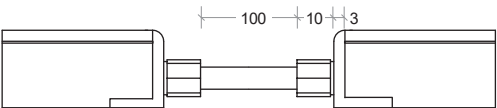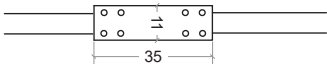| ACCESSORY	CABLE LENGTH / FEATURES	DIMENSION DIAGRAM
DIRECT ENTRY	600mm with waterproof interrupter, ending in bare wires	
	300mm with IP68 male connector plug*	
SIDE ENTRY *Side Injection moulding increases product width at connection. If using profile, connection end may not fit and will need to extend out of profile.*	600mm with waterproof interrupter, ending in bare wires	
	300mm with IP68 connector plug* (male or female depending on left or right side)	
BOTTOM ENTRY *Bottom Injection moulding increases product width at connection. If using profile, connection end may not fit and will need to extend out of profile.*	600mm with waterproof interrupter, ending in bare wires	
	300mm with IP68 male connector plug*	
END CAP	-	
FLEXIBLE CONNECTOR *Single Colour Only*	100mm *(Cable can be made longer by request)*	
WATERPROOF METAL FERRULE	This stainless steel waterproof metal ferrule prevents water from running down the cable. Only included for standard IP68 injection ending in bare wires	

*See next page for information about IP68 injection moulding cable connector plugs*

CODING: "XX": Stands in for SC (Single Colour), TW (Tuneable White), RGB, RGBW, RGBC, RGBWC

Actual product characteristics may vary

www.lightculture.com.au

NEON X | IP68 INJECTION MOULDING - CONNECTOR PLUGS

CABLE LENGTHS GIVEN ARE STANDARD, CAN BE MADE LONGER BY REQUEST.

Connector plugs have an IP68 rating (when fastened) and are designed for "plug-and-play" type installations. As standard, the Neon IP68 injection moulded connector plugs are male. The installer can wire in an **IP68 female connector plug to bare wire** at the start location (power supply/control centre) then plug the two together (ensuring stainless steel locking ring is tight). Depending on required cable length an extension cable may be required.
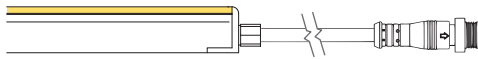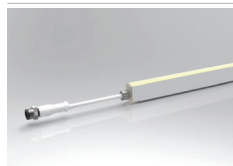

NEON WITH MALE IP68 CONNECTOR PLUG
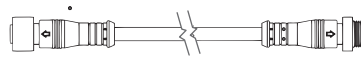
OPTIONAL: IP68 CONNECTOR PLUG EXTENSION CABLE
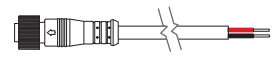
IP68 FEMALE CONNECTOR PLUG TO BARE WIRE

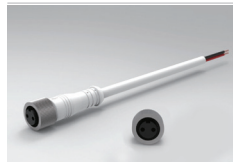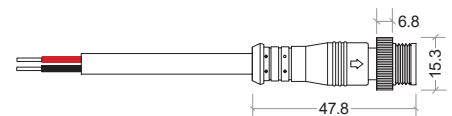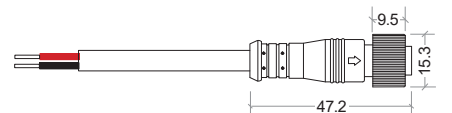|			
	IP68 CONNECTOR PLUGS (male or female depending on power feed end). Male as standard.	Cable Length 300mm	These connect to the corresponding IP68 Connector plug to bare Wire or to an IP68 Connector plug Extension cable
	IP68 MALE CONNECTOR PLUG TO BARE WIRE	300mm	6.8 / 15.3 / 47.8
	IP68 FEMALE CONNECTOR PLUG TO BARE WIRE	300mm	9.5 / 15.3 / 47.2
	IP68 CONNECTOR PLUG EXTENSION CABLE	1m / 2m / 5m / 10m	

Female & Male Connector plugs

The male/female waterproof connector plug is made by two layers of injection molding with high viscosity TPU and high density nylon material inside.

After locked by its stainless steel locking ring, it has outstanding reliability and waterproof performance with IP68 rating.

Double layer high-viscosity TPU

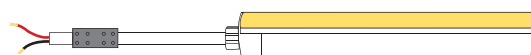Stainless steel

Nylon material

Soild copper Pins

Female Connector

Male Connector

SINGLE / DOUBLE FEED

THE MAXIMUM RUN LENGTH PER POWER FEED CAN BE DOUBLED BY POWERING FROM BOTH ENDS.
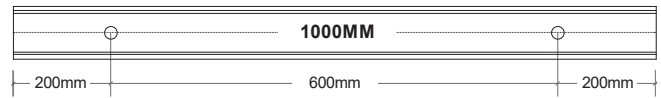
SINGLE FEED

DC input
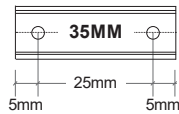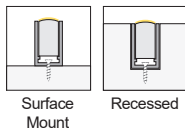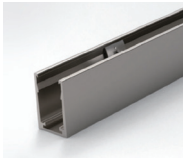
DOUBLE FEED

DC input
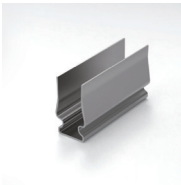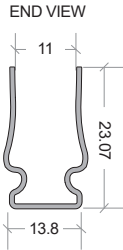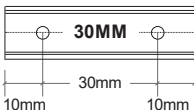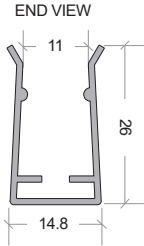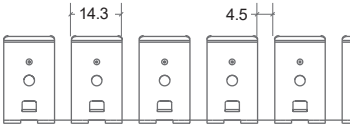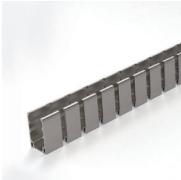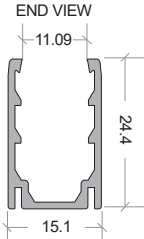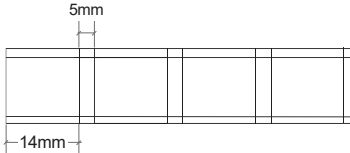
DC input

NEON X | MOUNTING ACCESSORIES

	Surface Mount	Recessed

35MM — 25mm, 5mm, 5mm

1000MM — 200mm, 600mm, 200mm

ACCESSORY	CODE / LENGTH	SCREW HOLE	HOLE QTY	DIAGRAM
ALUMINIUM PROFILE **W15.1 × H24.4MM** Surface mount or recess	**Neon-X-AL-35** 35mm		2	11.09 / 24.4 / 15.1
		Ø4.0mm		
	Neon-X-AL-1000 1000mm		2	
SELF-LOCKING ALUMINIUM PROFILE WITH CLIP **W16.2 × H25.6MM** Surface mount or recess ***Suitable for mounting Neon upside down or vertically up wall/surface.***	**Neon-X-SLAL-35** 35mm (1 x clip)		2	11.8 / 25.6 / 16.2 Upside down or vertical mount
		Ø4.0mm		
	Neon-X-SLAL-1000 1000mm (5 x clips)		2	
ALUMINIUM PROFILE WITH CABLE TRAY **W15.1 × H31.1MM** Surface mount or recess	**Neon-X-ALCT-35** 35mm		2	11 / 31.1 / 15.1
		Ø4.0mm		
	Neon-X-ALCT-1000 1000mm		2	
ALUMINIUM PROFILE WITH SURFACE **W13.6 × H31.5MM (21.5)** Surface mount (against surface)	**Neon-X-ALS-35** 35mm		2	11.30 / 21.5 / 31.5 / 13.60 Surface Mount
		Ø4.0mm		
	Neon-X-ALS-1000 1000mm		2	
PLASTIC PROFILE **W19.6 × H26.3MM** Surface mount or recess	**Neon-X-PP-35** 35mm		2	12.5 / 26.3 / 19.6
		Ø4.0mm		
	Neon-X-PP-1000 1000mm		2	

NEON X | MOUNTING ACCESSORIES

ACCESSORY	CODE / LENGTH	SCREW HOLE	HOLE QTY	DIAGRAMS
STAINLESS STEEL CLIP **W13.8 × H23MM** Surface mount	Neon-X-SSC-50 50mm	Ø4.0mm	2	END VIEW / TOP VIEW 11 · 23.07 · 13.8 30MM · 30mm · 10mm · 10mm

ACCESSORY	CODE / LENGTH	DIAGRAMS
FLEXIBLE STAINLESS STEEL PROFILE **W14.8 × H26MM** Surface mount	**Neon-X-SSFP-100** 100mm **Neon-X-SSFP-300** 300mm **Neon-X-SSFP-500** 500mm **Neon-X-SSFP-1000** 1000mm	END VIEW 11 · 26 · 14.8 SIDE · TOP 14.3 · 4.5
FLEXIBLE ALUMINIUM PROFILE **W15.1 × H24.4MM** Surface Mount - Horizontal Bend	**Neon-X-ALFP-500** 500mm **Neon-X-ALFP-1000** 1000mm	END VIEW / TOP VIEW 11.09 · 24.4 · 15.1 5mm · 14mm