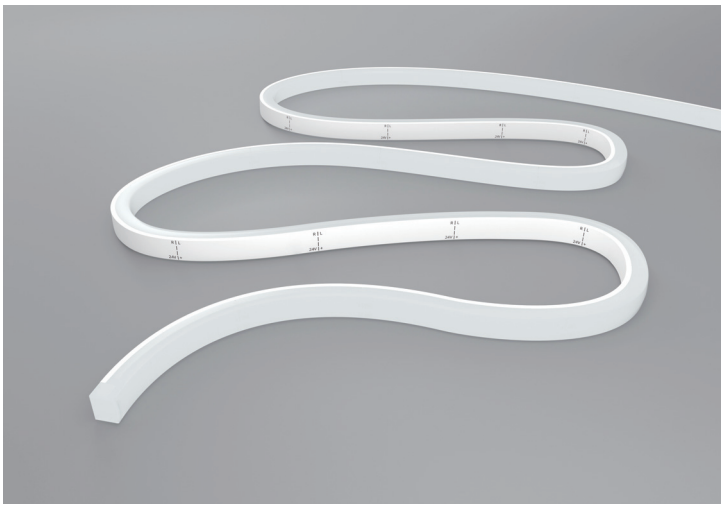
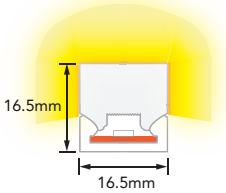
SF18 SPI Pixel Chasing RGBW Silicone LED Linear Flex

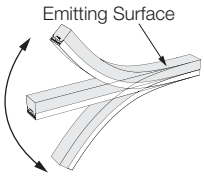
SF18-24V-5050-70-SPI4-RGBW

Specification

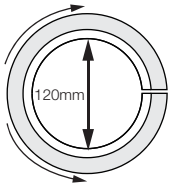




Dimension



Vertical Bending



Min. Bending Diameter

Beam Angle

Pixel RGBW

SPI

Dimmable

Submersible

Ambient Temp.

Class 3

LM-80

IK08

UV resistant

Anti-Yellowing

Flame Resistant

Saltwater Resistant

Solvents Resistant

Dirt Resistant

CE

RoHS

UL Listed

CB

Warranty

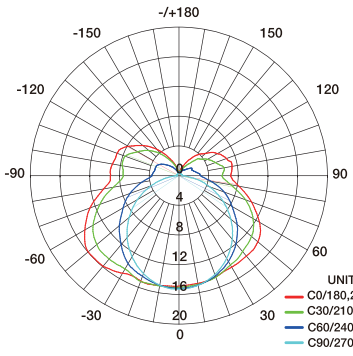
Technical Parameters

Electrical	
Input Voltage	24V DC
Power Consumption	18W/m
Physical	
LED Count	70 LEDs/m
Cutting Unit	7 LEDs
Cutting Unit Length	100mm
Minimum Bend Diameter	120mm
Output	
LED Light	Epistar SMD LED 5050
Color	RGBW(2700K/3000K/4000K/5000K)
Working Mode	SPI
Pixels Quantity	10 Pixels/m
IC Chips	UCS8904
Max Run Length*	
Single Feed	8 M
Double Feed	16 M
Beam Angle	210°
Lumen Maintenance	70,000 Hours L70 @ 25°C 50,000 Hours L70 @ 50°C

	Emitting Color	Lumen Output
	Red	84lm/m
	Green	264lm/m
	Blue	52lm/m
	RGB(White)	670lm/m
	3000K	302lm/m

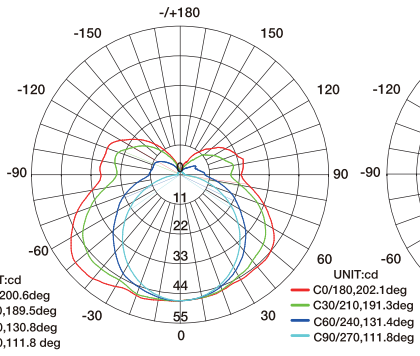
Temperature Ranges	
Installation	0°C to 50°C
Operating	-40°C to 55°C
Dependability	
Warranty	5 Years Warranty
IP Rating	IP68 Wet location submersible <2m

Illuminance Distribution



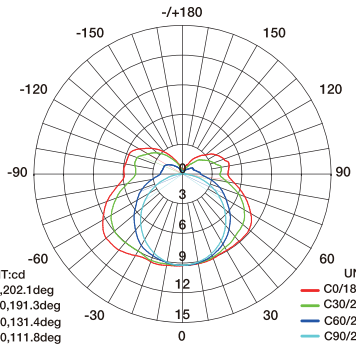
AVERAGE BEAM ANGLE(50%):158.2 DEG

Red



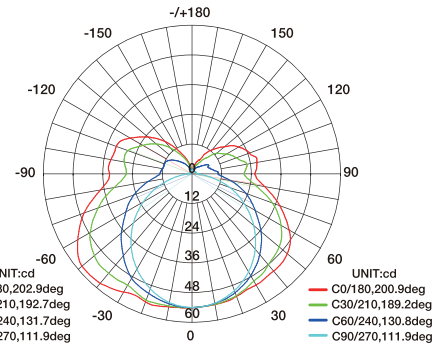
AVERAGE BEAM ANGLE(50%):159.2 DEG

Green



AVERAGE BEAM ANGLE(50%):159.8 DEG

Blue



AVERAGE BEAM ANGLE(50%):158.2 DEG

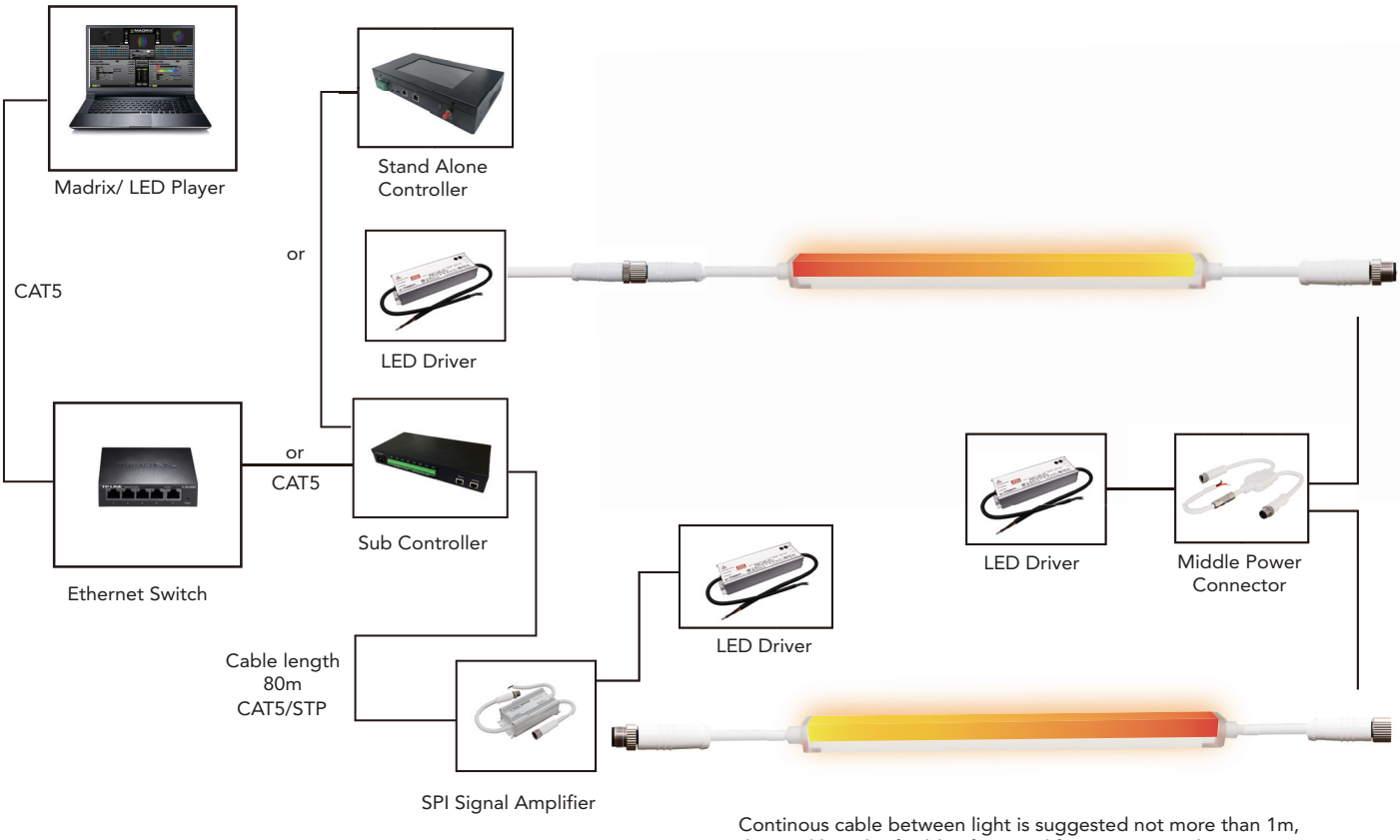
3000K

Lighting OLYMPIA

Email: info@olympialed.com
Http://www.olympialed.com

SF18 SPI Pixel Chasing RGBW Silicone LED Linear Flex

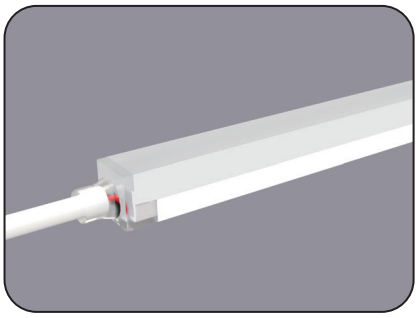
Connection



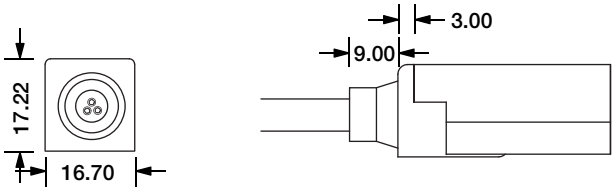
Continous cable between light is suggested not more than 1m, the total length of cable after amplifier is suggested not more than 5m.

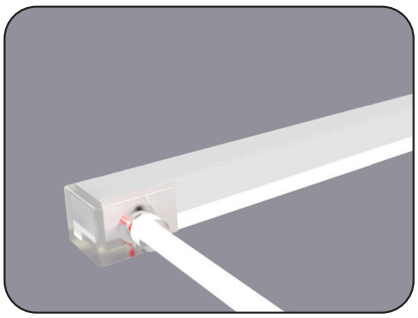
SF18 Configuration and Accessories

Mold injection Connector (IP68 Factory Assembly Only)

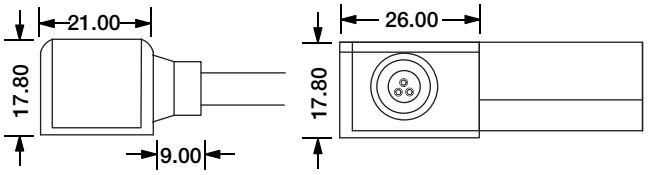


Direct Entry Connector
MJ-SF18-D3-D02SM
MJ-SF18-D3-D03SFM

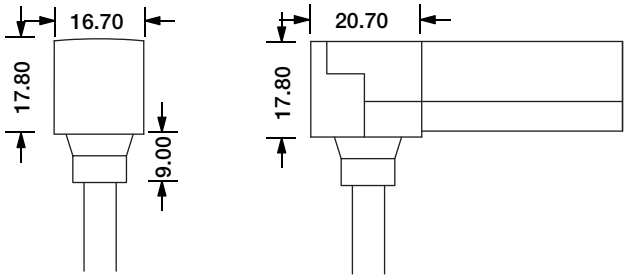


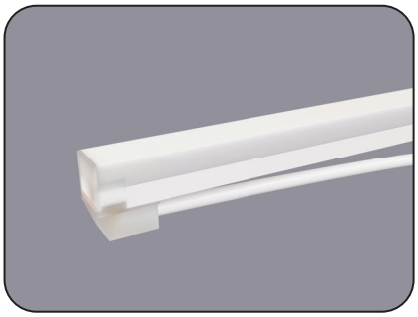


Side Entry Connector
MJ-SF18-D3-S02SM
MJ-SF18-D3-S03SFM

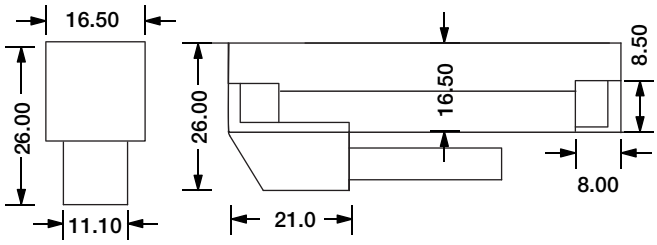


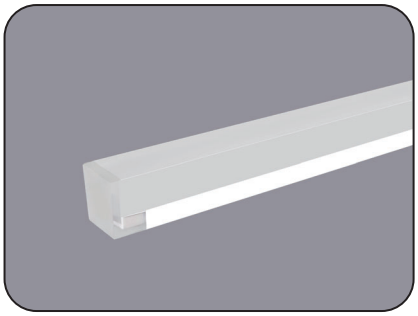
Bottom Entry Connector
MJ-SF18-D3-B02SM
MJ-SF18-D3-B03SFM



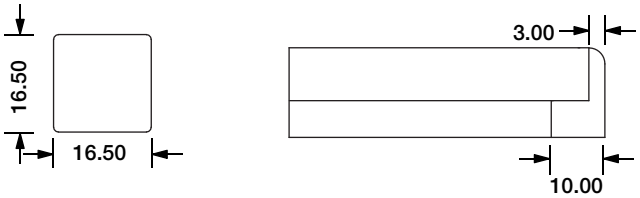


L Shape Entry Connector
MJ-SF18-D3-L02SM
MJ-SF18-D3-L03SFM

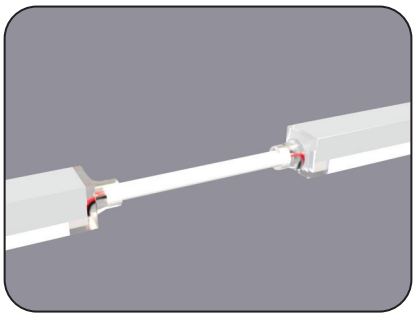




End Cap

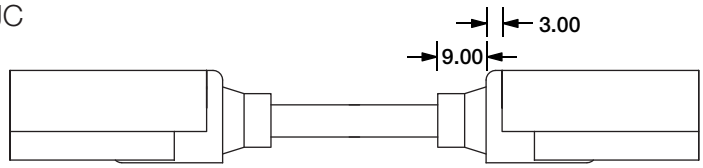


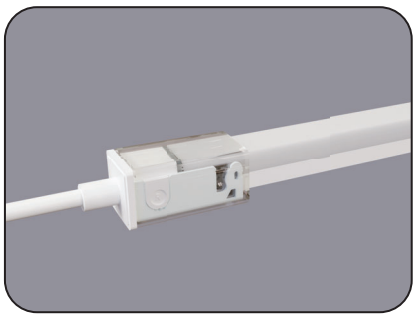
SF18 Configuration and Accessories



Jumper

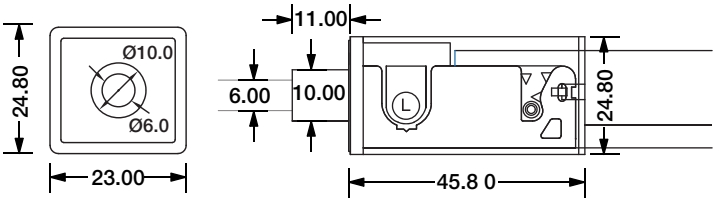
MJ-SF18-D3-D-JC

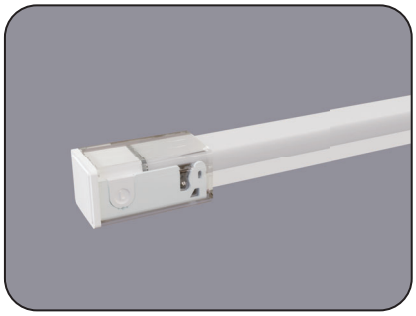




DIY Snap Connector

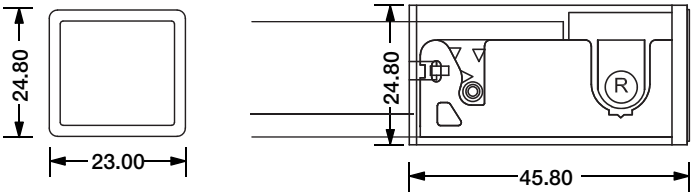
DIY-SN-FR-16-D-01/02-D3

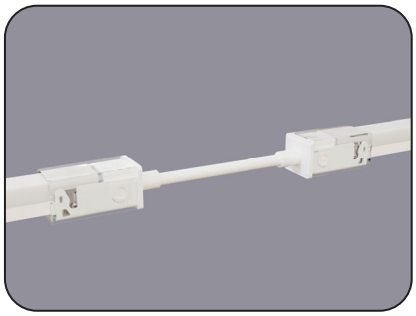




DIY Snap End Cap

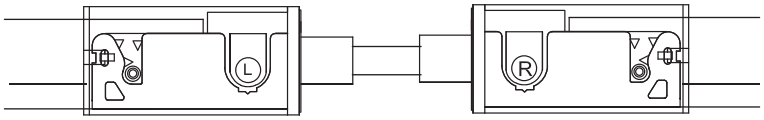
DIY-SN-END-16-D-01/02

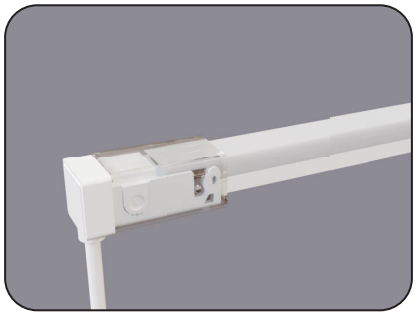




DIY Snap Extent Connector

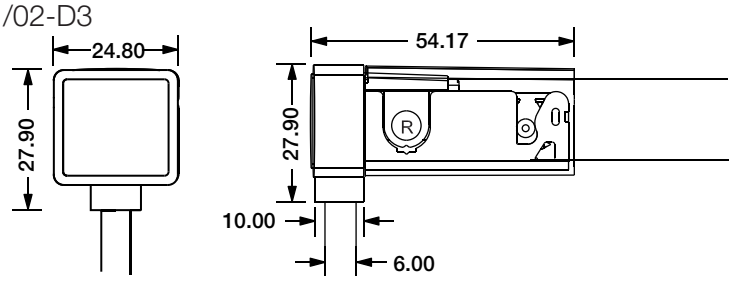
DIY-SN-EXT-16-D3



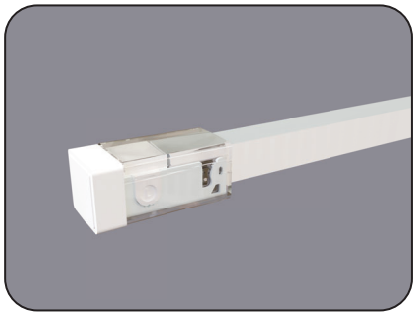


DIY Snap Bottom Connector

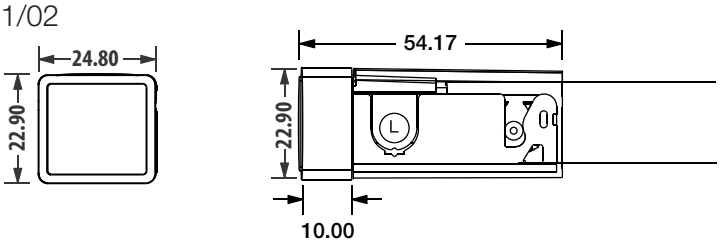
DIY-SN-FR-16-B-01/02-D3

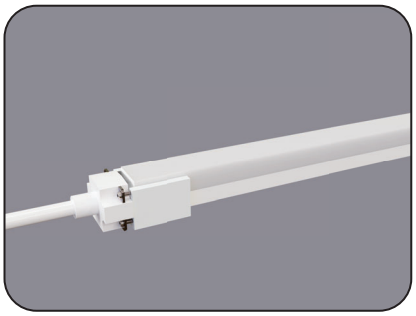


SF18 Configuration and Accessories

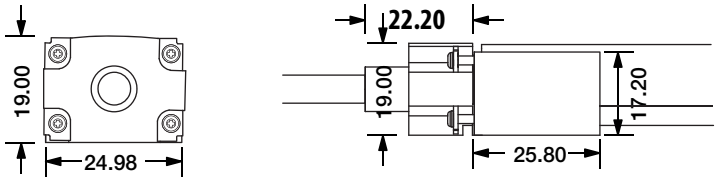


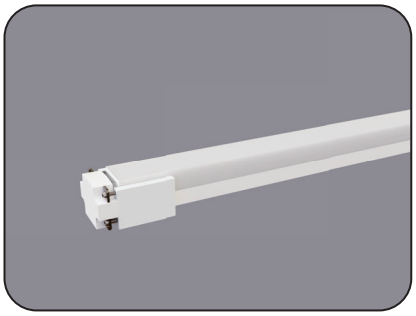
DIY Snap End Cap
DIY-SN-END-16-B-01/02



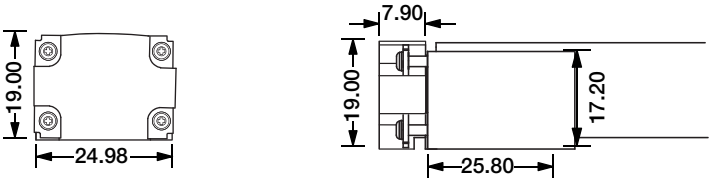


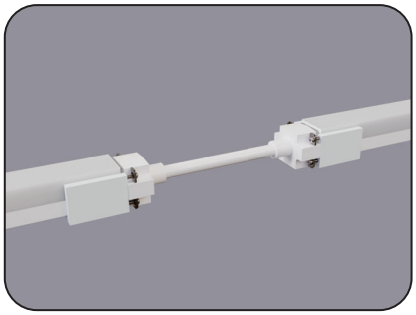
DIY Screw Connector
DIY-SC-FR-16-D-01/02-D3



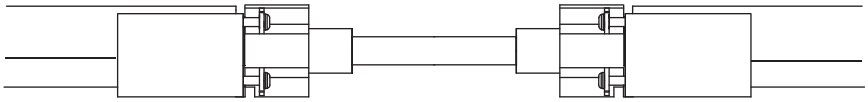


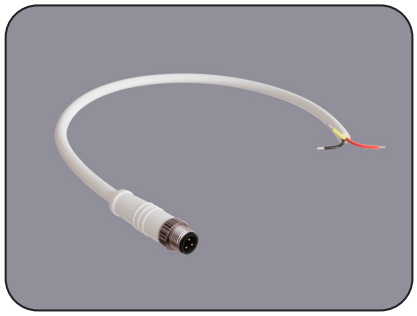
DIY Screw End Cap
DIY-SC-END-16



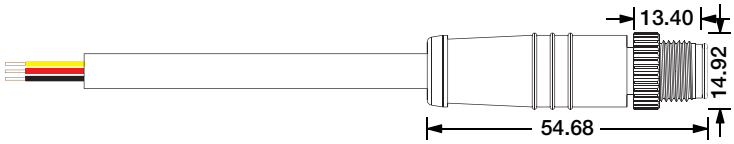


DIY Screw Extent Connector
DIY-SC-EXT-16-A

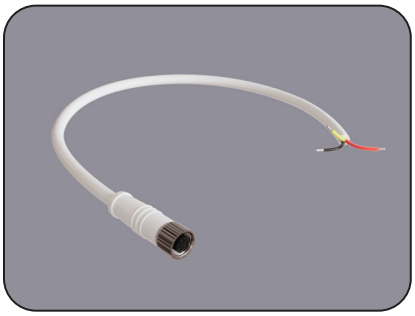




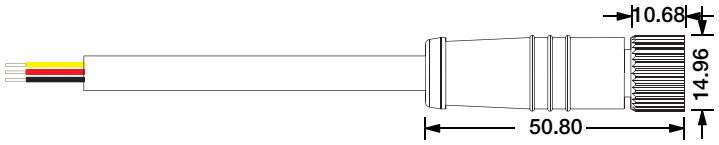
Male Connector
M12-M-3C-18AWG*2+24AWG-D6-W-0327-S

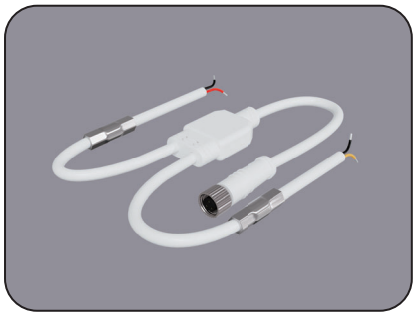


SF18 Configuration and Accessories

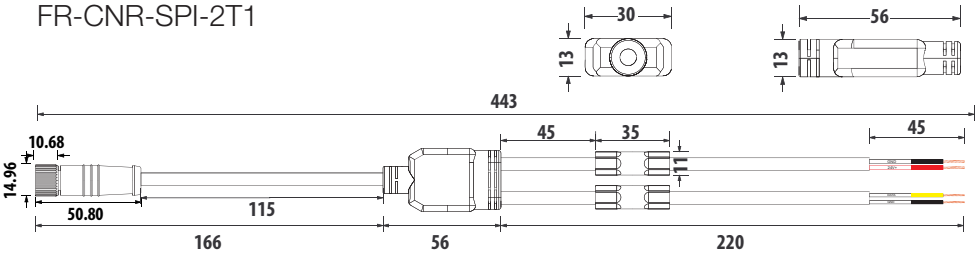


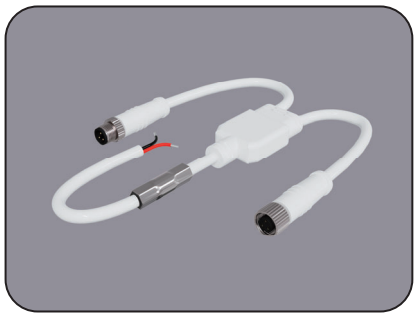
Female Connector
M12-F-3C-18AWG*2+24AWG-D6-W-0327-S



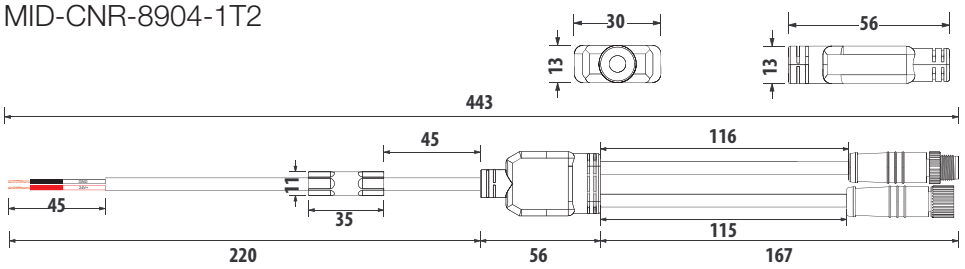


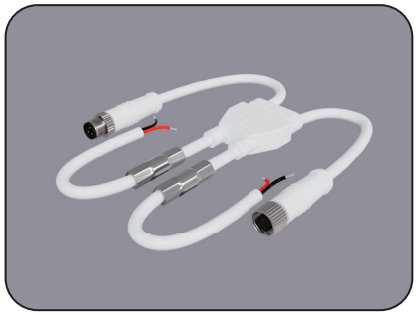
Front Signal & Power Connector
FR-CNR-SPI-2T1



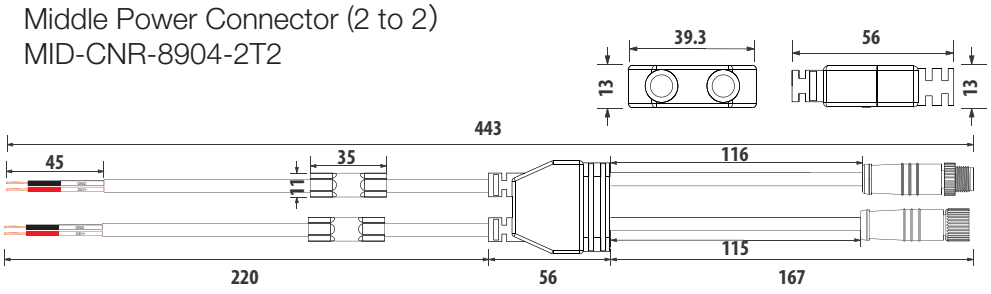


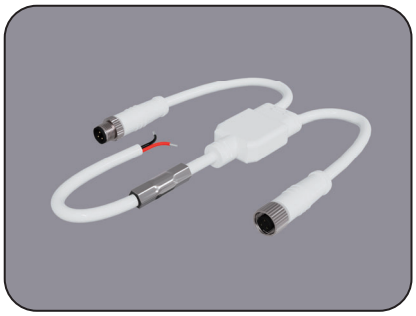
Middle Power Connector (1 to 2)
MID-CNR-8904-1T2



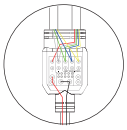


Middle Power Connector (2 to 2)
MID-CNR-8904-2T2

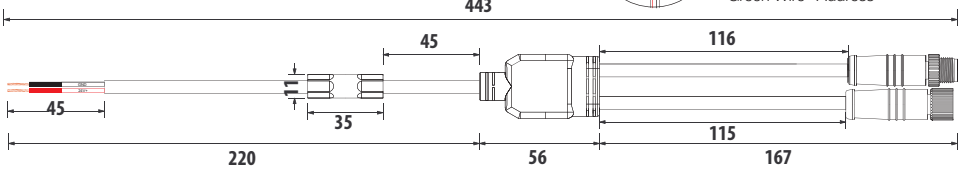




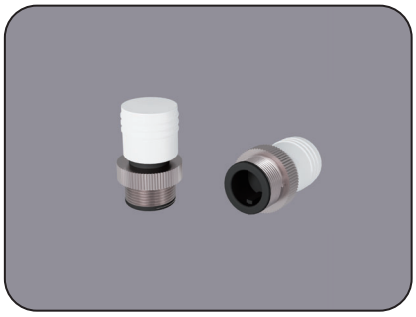
Middle Signal Connector
MID-SIG-CNR-8904-1T2



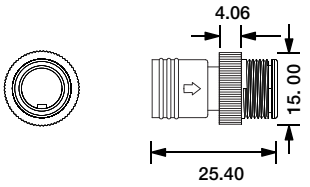
Positive disconnected
Yellow Wire--DMX+
White Wire--GND
Blue Wire--DMX-
Green Wire--Address

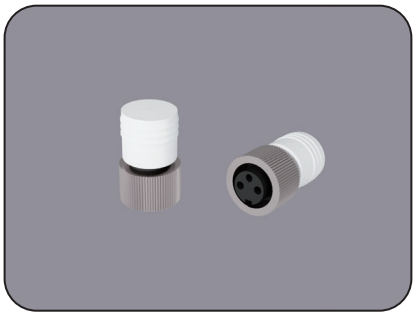


SF18 Configuration and Accessories

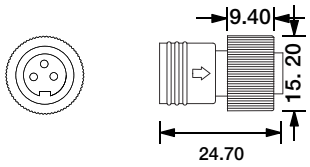


Male Connector End Cap
SYZ-EC-M12-M



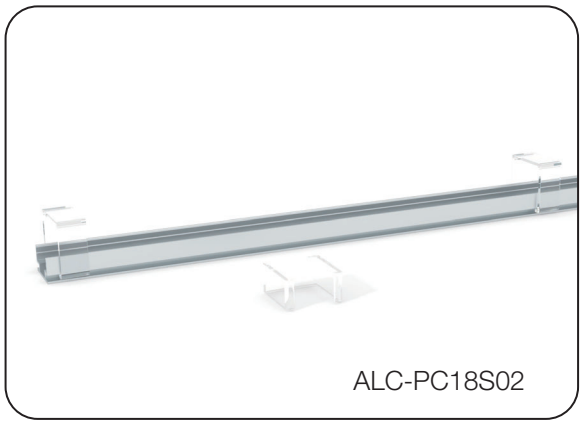


Female Connector End Cap
SYZ-EC-M12-F-3C

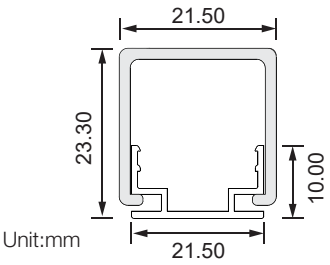


LED Linear Flex Mounting Channel

1. Aluminum Channel

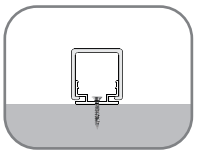


Dimension

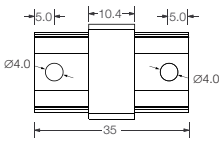


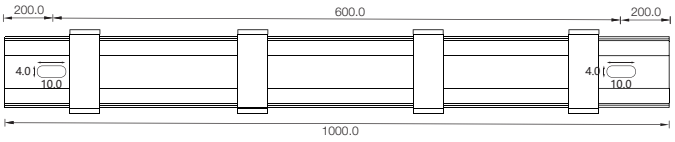
Unit:mm

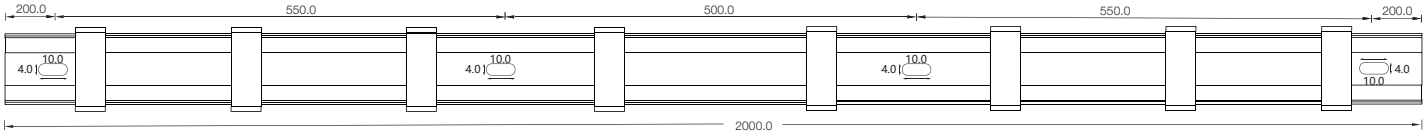
Installation Way



Surface Mounted



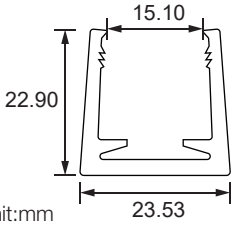




Model	W x H(mm)	Standard Length	Screw Holes	Plastic Clips	Suitable Product
ALC-PC18S02-035	21.5*23.3	35mm	Φ4.0mm*2	1	SF18
ALC-PC18S02-100		1000mm	⬭4.0mm*2	4	SF18
ALC-PC18S02-200		2000mm	⬭4.0mm*4	8	SF18

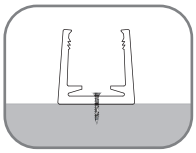
2. Plastic Channel

Dimension

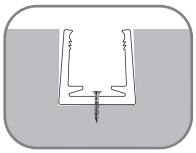


Unit:mm

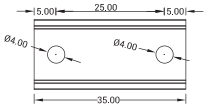
Installation Way

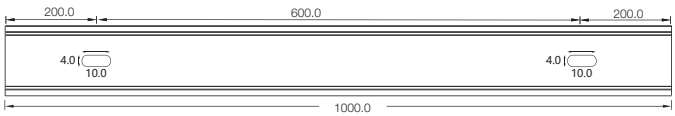


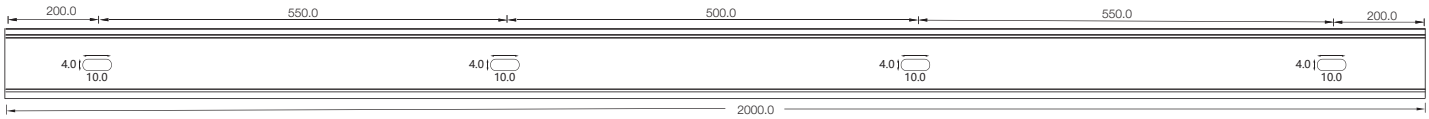
Surface Mounted



Recessed







Model	W x H(mm)	Standard Length	Screw Holes	Holes Numbers	Suitable Product
PC16/17S02-T-100	23.53*22.90	1000mm	Φ4.0mm	2	SF18

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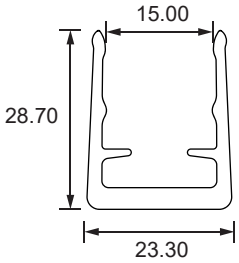
LED Linear Flex Mounting Channel

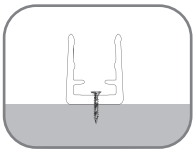
SJJ-ZSH-008-PC

Dimension

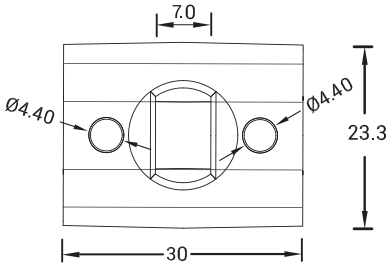


Unit:mm

Installation Way



Surface Mounted



Model	W x H(mm)	Standard Length	Screw Holes	Holes Numbers	Suitable Product
SJJ-ZSH-008-PC	23.3*28.7	30mm	Φ4.40mm	2	SF18

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Product Packing Details

Standard : Carton (White Carton+Paper Reel Inside)

Product	Max.length/Reel	Carton Size	Net Weight	Gross Weight
F15/SF15	30m	35*35*19cm	12.0kg	13.6kg
F16/SF16	28m	35*35*19cm	12.9kg	14.5kg
SF17	28m	35*35*19cm	12.9kg	14.5kg
SF18	28m	35*35*19cm	12.9kg	14.5kg
F21/SF21	20m	35*35*19cm	10.4kg	12.0kg
SF10	35m	35*35*19cm	11.2kg	12.8kg
SF09	45m	35*35*19cm	7.7kg	9.3kg
SF08	60m	35*35*19cm	14.4kg	16.0kg
SF06	60m	35*35*19cm	14.4kg	16.0kg

Standard : Carton (White Carton+ Roll up packing Inside)

Product	Coiling Max. length	Quantity (Roll)	Carton Size	Net Weight	Gross Weight
SP01	10m	10	35*35*19cm	20.0kg	21.6kg
SP05	11m	10	35*35*19cm	19.8kg	21.4kg
SF05	11m	10	35*35*19cm	18.0kg	19.6kg
SF06	8m	14	35*35*19cm	26.8kg	28.4kg
SF08	8m	14	35*35*19cm	26.8kg	28.4kg
SF09	8m	10	35*35*19cm	14.4kg	16.0kg
SF10	6m	11	35*35*19cm	21.2kg	22.8kg
F15/SF15	6m	7	35*35*19cm	16.8kg	18.4kg
F16/SF16	4.5m	9	35*35*19cm	18.7kg	20.3kg
SF17	4.5m	9	35*35*19cm	18.7kg	20.3kg
SF18	4.5m	9	35*35*19cm	18.7kg	20.3kg
F21/SF21	4.5m	9	35*35*19cm	21.0kg	22.6kg
SF24	13m	2	41*41*19cm	15.6kg	17.5kg

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Product Packing Details

Custom : Carton (White Box+Plastic Plate Inside)

Product	Packing 1				Packing 2			
	Packing 1 Max. Length	Quantity (Plate)	Carton Size	Gross Weight	Packing 2 Max. Length	Quantity (Plate)	Carton Size	Gross Weight
F15/SF15	5m	1	41*41*5cm	2.5kg	10m	1	57*48*6cm	5.0kg
		4	41*41*19cm	10.6kg		5	57*48*19cm	25.0kg
F16/SF16	5m	1	41*41*5cm	2.5kg	10m	1	63*53*6cm	5.0kg
		4	41*41*19cm	10.0kg		3	63*53*16cm	15.0kg
SF17	5m	1	41*41*5cm	2.5kg	10m	1	63*53*6cm	5.0kg
		4	41*41*19cm	10.6kg		3	63*53*16cm	15.0kg
SF18	5m	1	41*41*5cm	2.5kg	10m	1	63*53*6cm	5.0kg
		4	41*41*19cm	10.6kg		3	63*53*16cm	15.0kg
F21/SF21	5m	1	41*41*5cm	3.1kg	10m	1	63*53*6cm	6.2kg
		4	41*41*19cm	13.0kg		3	63*53*16cm	18.6kg
SP01	10m	1	41*41*5cm	2.6kg	20m	1	57*48*6cm	5.0kg
		4	41*41*19cm	11.0kg		5	57*48*19cm	25.0kg
SP05	10m	1	41*41*5cm	2.4kg	20m	1	57*48*6cm	3.6kg
		4	41*41*19cm	9.6kg		5	57*48*19cm	18.0kg
SF05	10m	1	41*41*5cm	2.0kg	20m	1	57*48*6cm	4.0kg
		4	41*41*19cm	8.0kg		5	57*48*19cm	20.0kg
SF06	7m	1	41*41*5cm	2.3kg	14m	1	57*48*6cm	4.4kg
		4	41*41*19cm	9.2kg		5	57*48*19cm	22.0kg
SF08	7m	1	41*41*5cm	2.3kg	14m	1	57*48*6cm	4.4kg
		4	41*41*19cm	9.2kg		5	57*48*19cm	22.0kg
SF09	9m	1	41*41*5cm	2.0kg	18m	1	57*48*6cm	3.9kg
		4	41*41*19cm	8.0kg		5	57*48*19cm	19.5kg
SF10	5m	1	41*41*5cm	2.3kg	10m	1	57*48*6cm	4.2kg
		4	41*41*19cm	9.2kg		5	57*48*19cm	21.0kg
SF24	5m	1	57*48*6cm	2.3kg	10m	1	63*53*6cm	4.2kg
		4	57*48*19cm	9.2kg		5	63*53*16cm	21.0kg
SF33	3m	1	63*53*6cm	3.4kg	10m	1	85*73*6cm	11.5kg
		3	63*53*16cm	10.2kg		2	85*73*11cm	23.0kg
SF34	3m	1	63*53*6cm	3.2kg	10m	1	85*73*6cm	11.0kg
		3	63*53*16cm	9.6kg		2	85*73*11cm	22.0kg