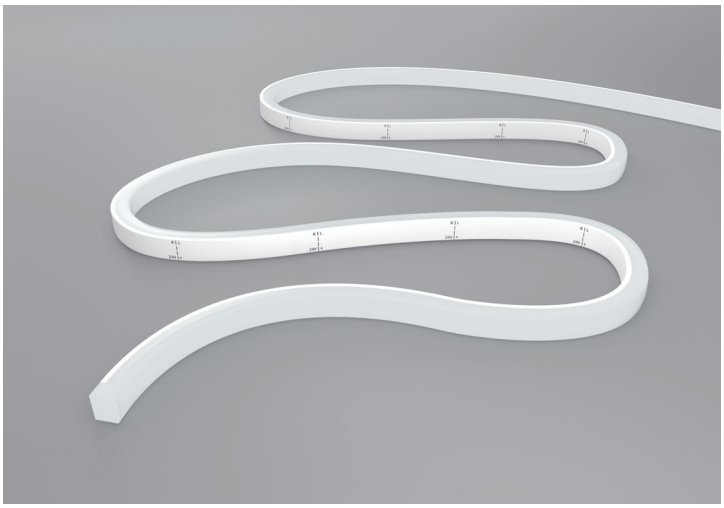
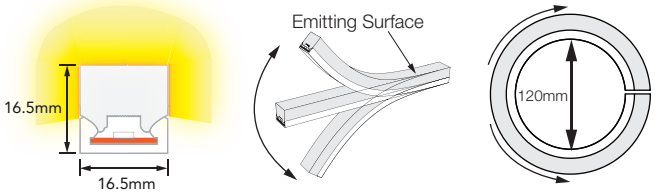
# SF18 SPI Pixel Chasing RGBW Silicone LED Linear Flex

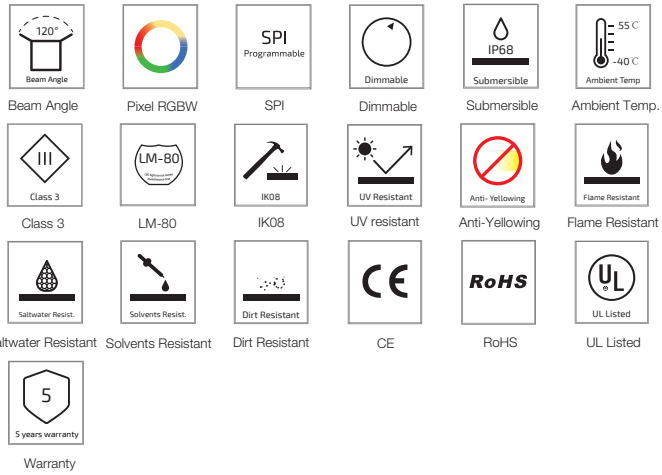
## SF18-24V-5050-84-SPI4-RGBW

### 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

Warranty

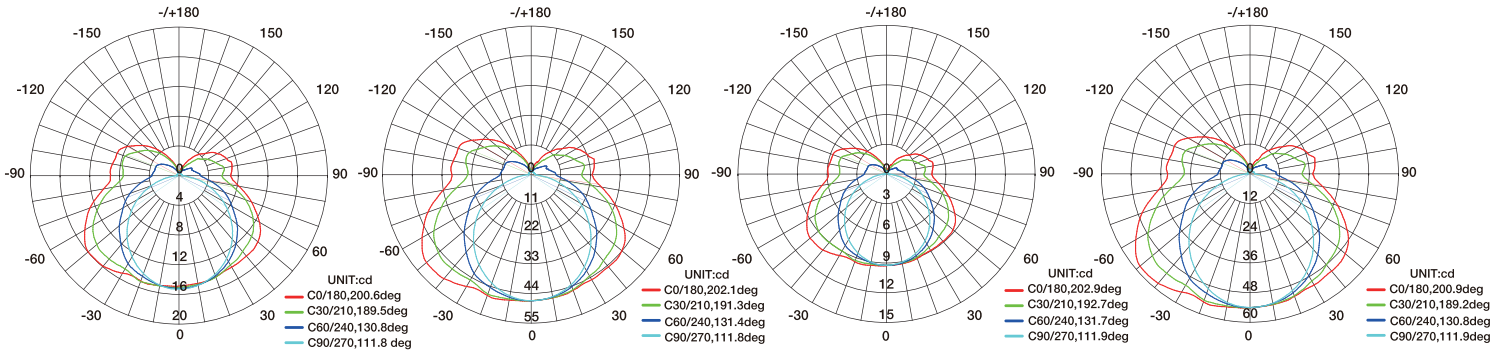
### Technical Parameters

| Electrical | |
|---|---|
| Input Voltage | 24V DC |
| Power Consumption | 22W/m |
| **Physical** | |
| LED Count | 84 LEDs/m |
| Cutting Unit | 7 LEDs |
| Cutting Unit Length | 83.3mm |
| Minimum Bend Diameter | 120mm |
| **Output** | |
| LED Light | Epistar SMD LED 5050 |
| Color | RGBW(2700K/3000K/4000K/5000K) |
| Working Mode | SPI |
| Pixels Quantity | 12 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<br>50,000 Hours L70 @ 50°C |

| | Emitting Color | Lumen Output |
|---|---|---|
| | Red | 90lm/m |
| | Green | 270lm/m |
| | Blue | 60lm/m |
| | RGB(White) | 670lm/m |
| | 3000K | 310lm/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

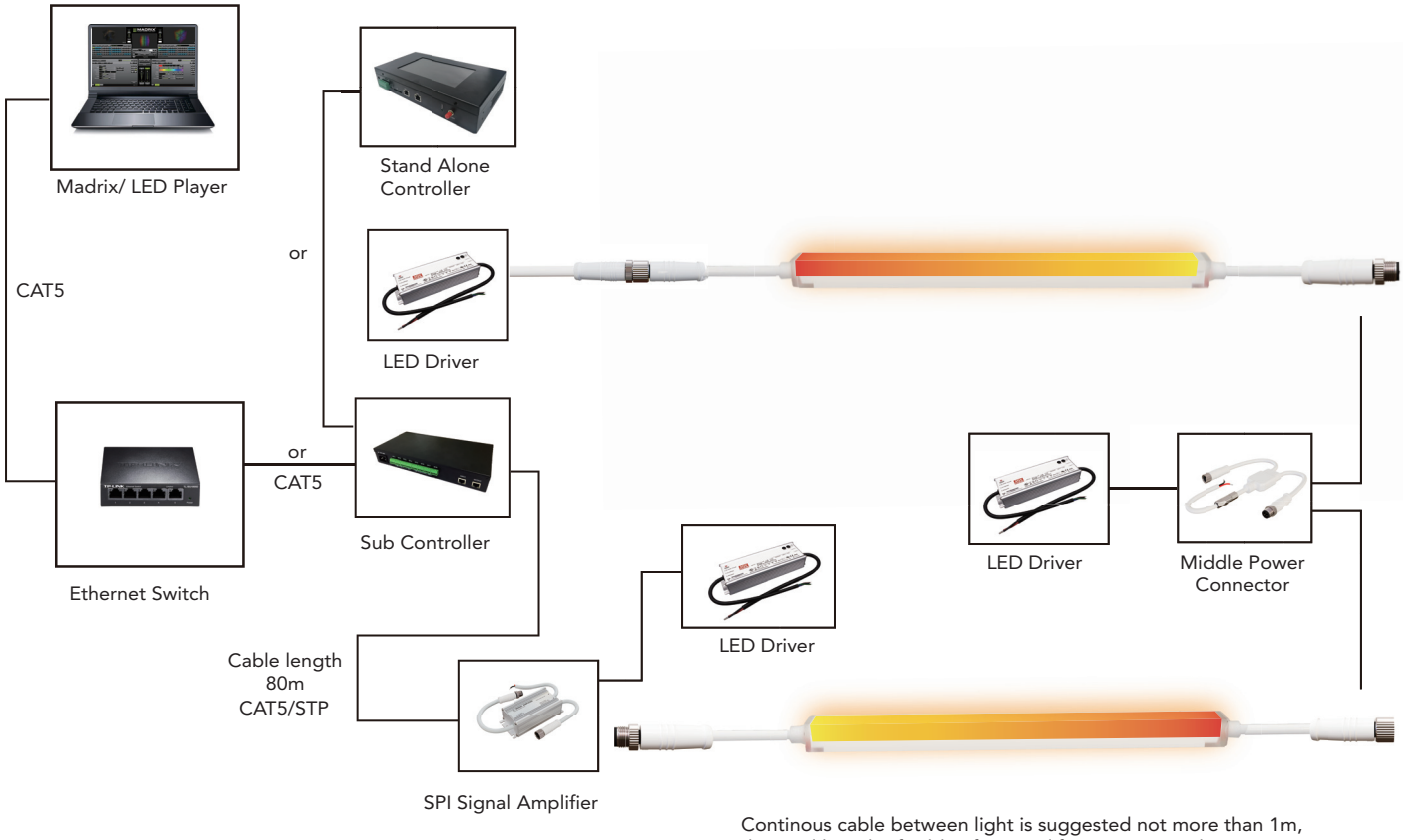
AVERAGE BEAM ANGLE(50%):158.2 DEG — 3000K


Lighting OLYMPIA

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

# SF18 SPI Pixel Chasing RGBW Silicone LED Linear Flex

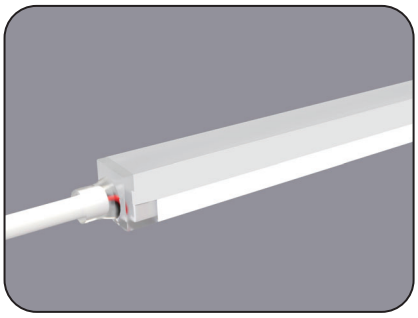
## Connection



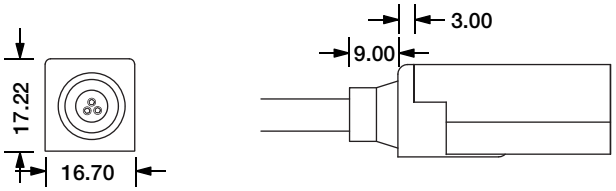

Continous cable between light is suggested not more than 1m, the total length of cable after amplifier is suggested not more than 5m.

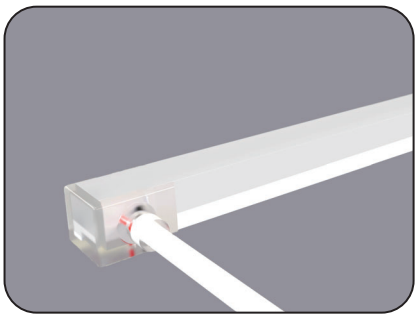
# SF18 Configuration and Accessories

Mold injection Connector (IP68 Factory Assembly Only)

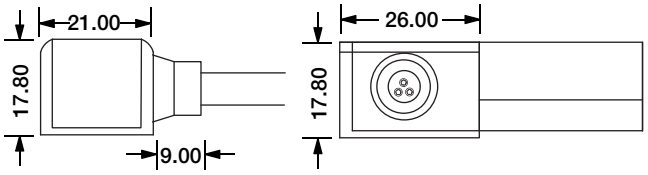


Direct Entry Connector
MJ-SF18-D3-D02SM
MJ-SF18-D3-D03SFM

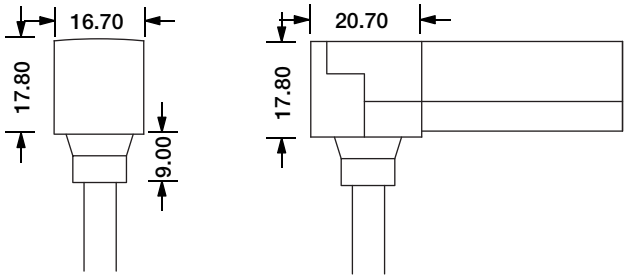


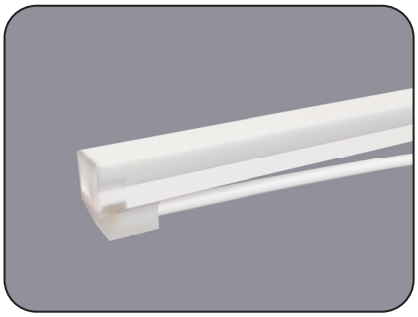



Side Entry Connector
MJ-SF18-D3-S02SM
MJ-SF18-D3-S03SFM

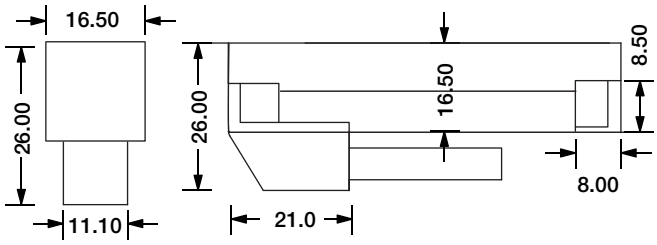


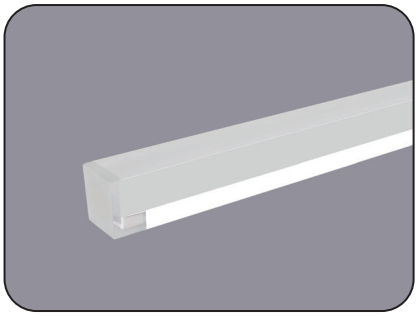
Bottom Entry Connector
MJ-SF18-D3-B02SM
MJ-SF18-D3-B03SFM



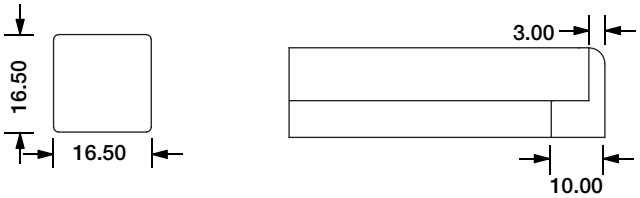



L Shape Entry Connector
MJ-SF18-D3-L02SM
MJ-SF18-D3-L03SFM

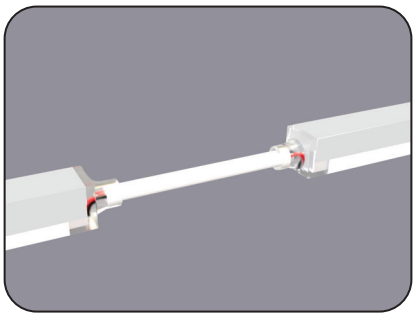


End Cap

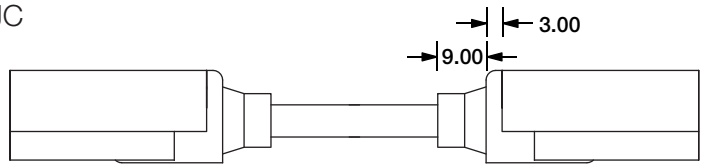


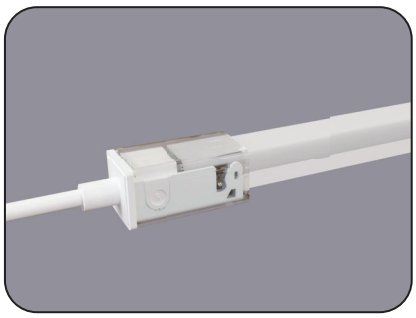
# SF18 Configuration and Accessories



Jumper

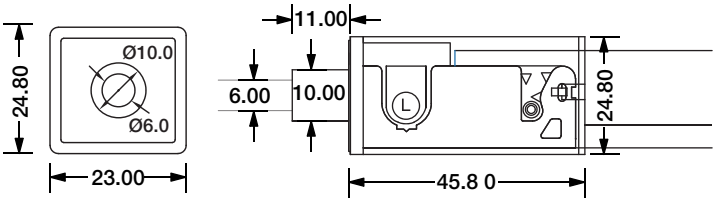
MJ-SF18-D3-D-JC

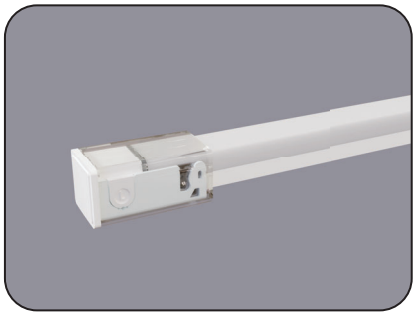


DIY Snap Connector

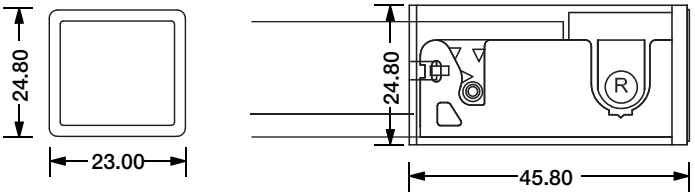
DIY-SN-FR-16-D-01/02-D3

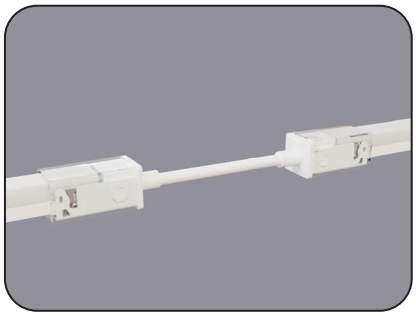


DIY Snap End Cap

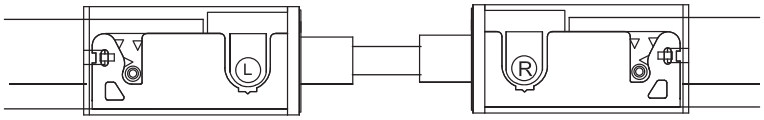
DIY-SN-END-16-D-01/02

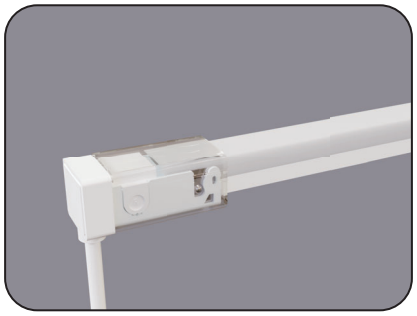


DIY Snap Extent Connector

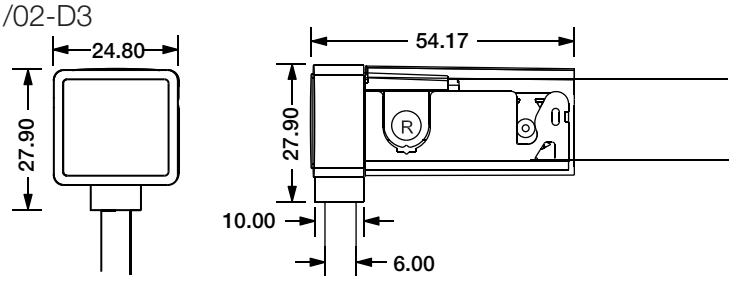
DIY-SN-EXT-16-D3



DIY Snap Bottom Connector

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



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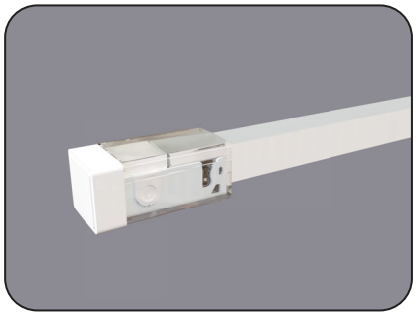
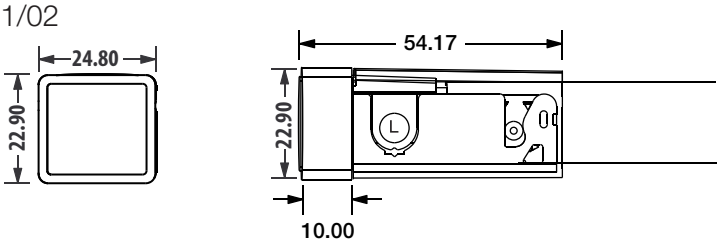
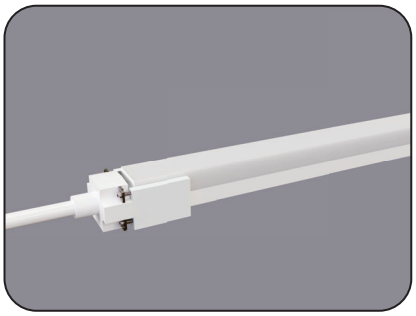
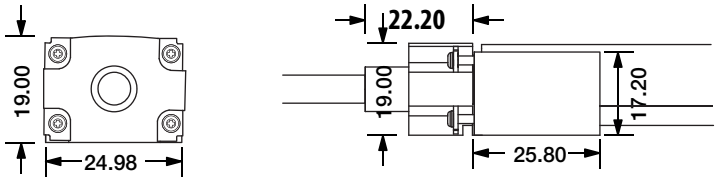


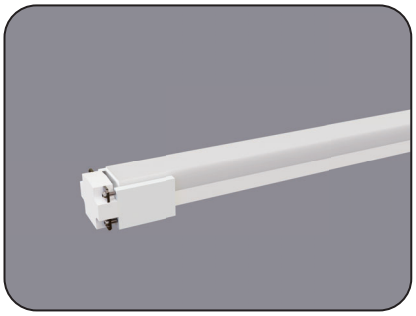
DIY Snap End Cap
DIY-SN-END-16-B-01/02



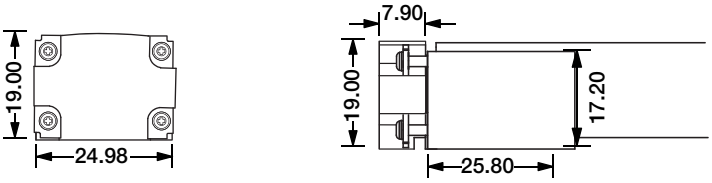



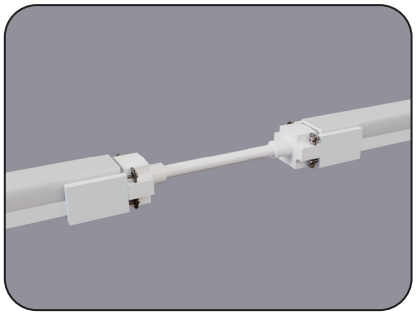
DIY Screw Connector
DIY-SC-FR-16-D-01/02-D3



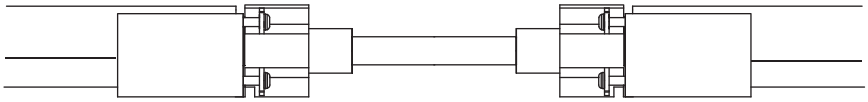



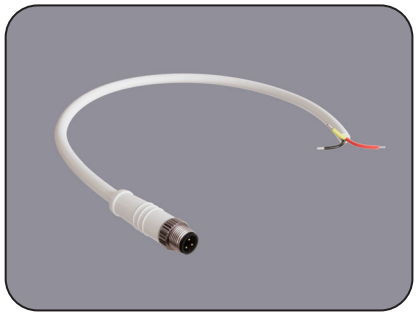
DIY Screw End Cap
DIY-SC-END-16



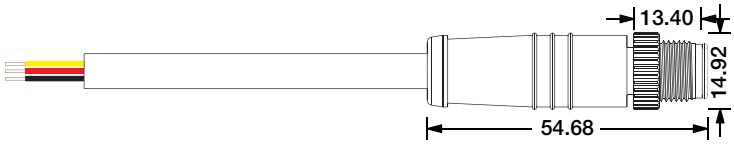



DIY Screw Extent Connector
DIY-SC-EXT-16-A

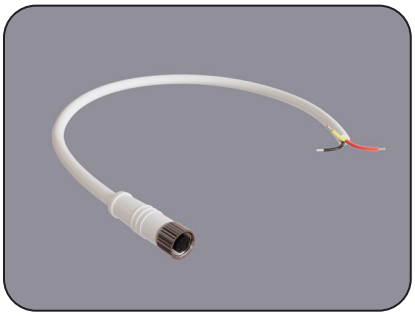




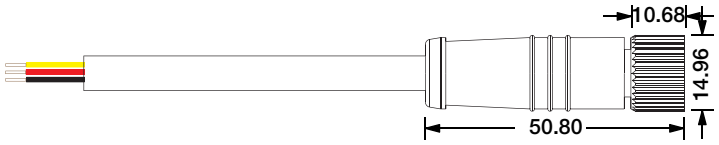
Male Connector
M12-M-3C-18AWG*2+24AWG-D6-W-0327-S

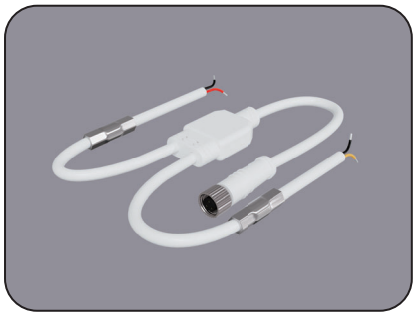


# SF18 Configuration and Accessories

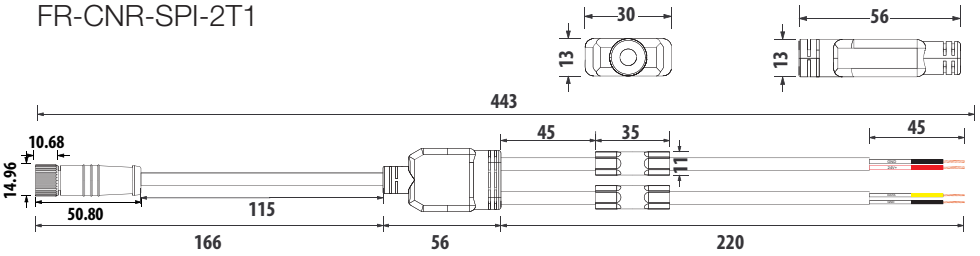


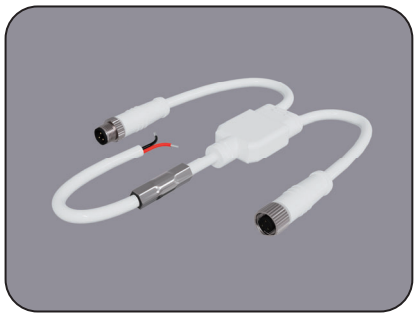
Female Connector
M12-F-3C-18AWG*2+24AWG-D6-W-0327-S



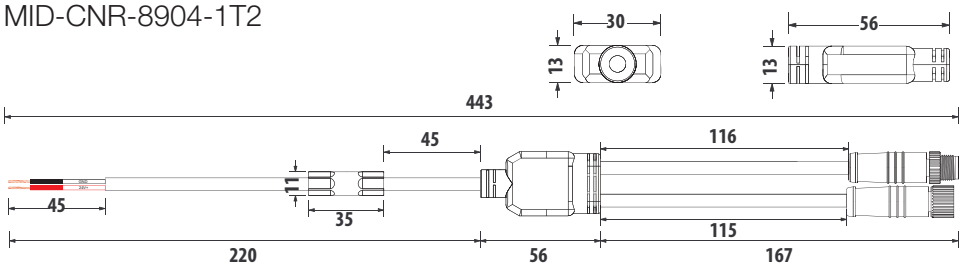



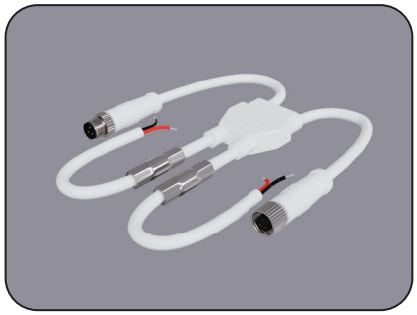
Front Signal & Power Connector
FR-CNR-SPI-2T1



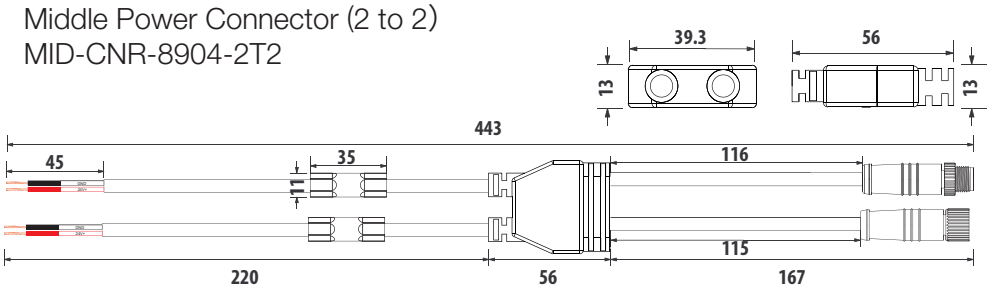



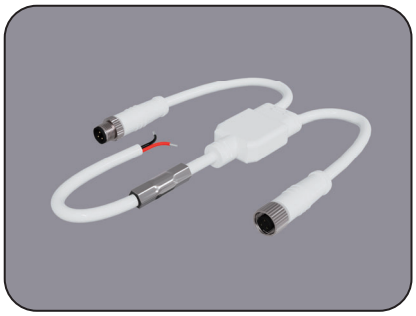
Middle Power Connector (1 to 2)
MID-CNR-8904-1T2



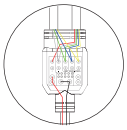



Middle Power Connector (2 to 2)
MID-CNR-8904-2T2

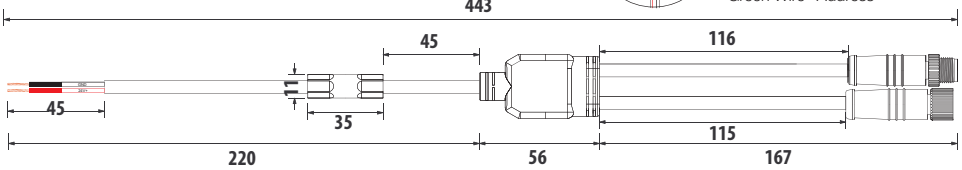


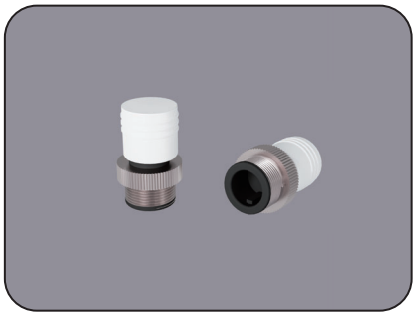
Middle Signal Connector
MID-SIG-CNR-8904-1T2



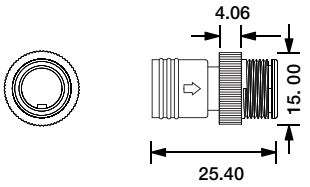
Positive disconnected
Yellow Wire--DMX+
White Wire--GND
Blue Wire--DMX-
Green Wire--Address

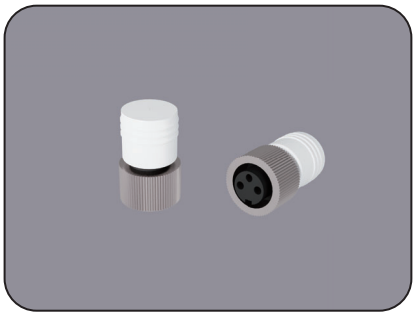


# SF18 Configuration and Accessories

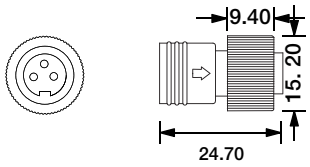


Male Connector End Cap
SYZ-EC-M12-M



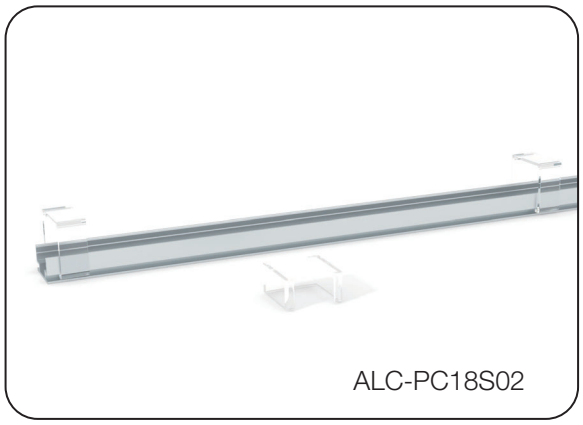



Female Connector End Cap
SYZ-EC-M12-F-3C

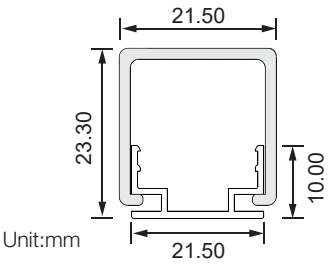


# LED Linear Flex Mounting Channel

## 1. Aluminum Channel

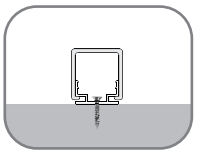



Dimension

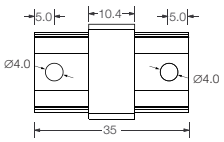


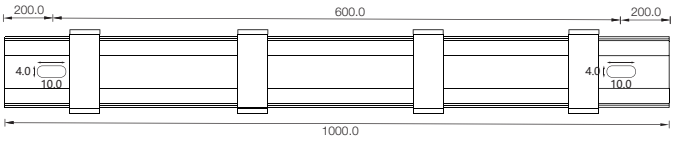

Unit:mm

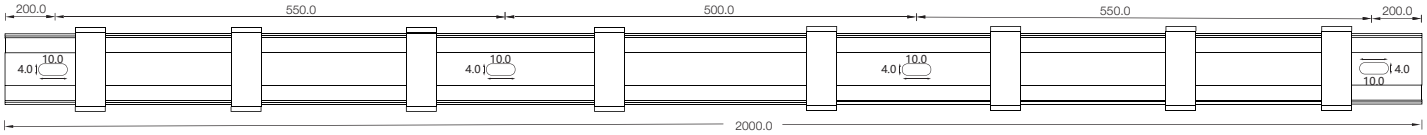
Installation Way



Surface Mounted



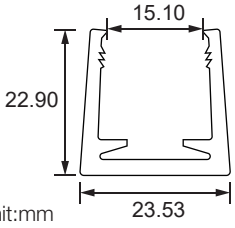




| Model | W x H(mm) | Standard Length | Screw Holes | Plastic Clips | Suitable Product |
|---|---|---|---|---|---|
| ALC-PC18S02-035 | 21.5*23.3 | 35mm | Φ4.0mm*2 | 1 | SF18 |
| ALC-PC18S02-100 | | 1000mm | ⬭4.0mm*2 | 4 | SF18 |
| ALC-PC18S02-200 | | 2000mm | ⬭4.0mm*4 | 8 | SF18 |

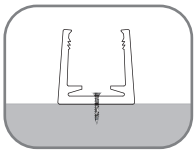
## 2. Plastic Channel

Dimension

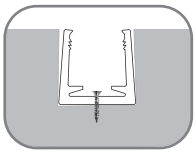



Unit:mm

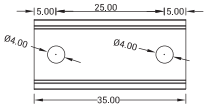
Installation Way

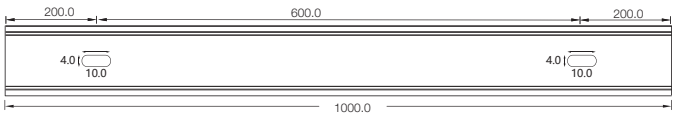


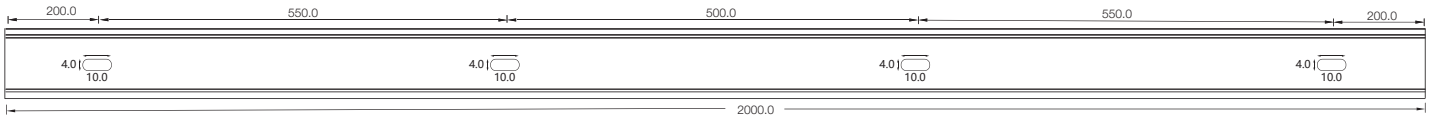
Surface Mounted



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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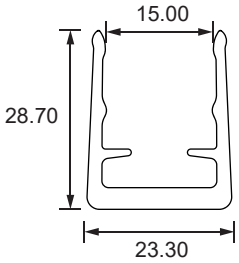
# LED Linear Flex Mounting Channel

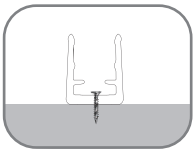
SJJ-ZSH-008-PC

Dimension

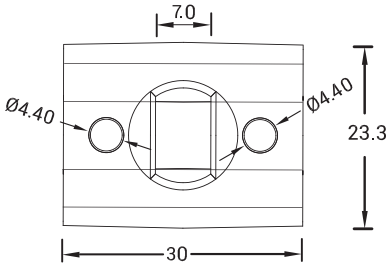



Unit:mm

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 |