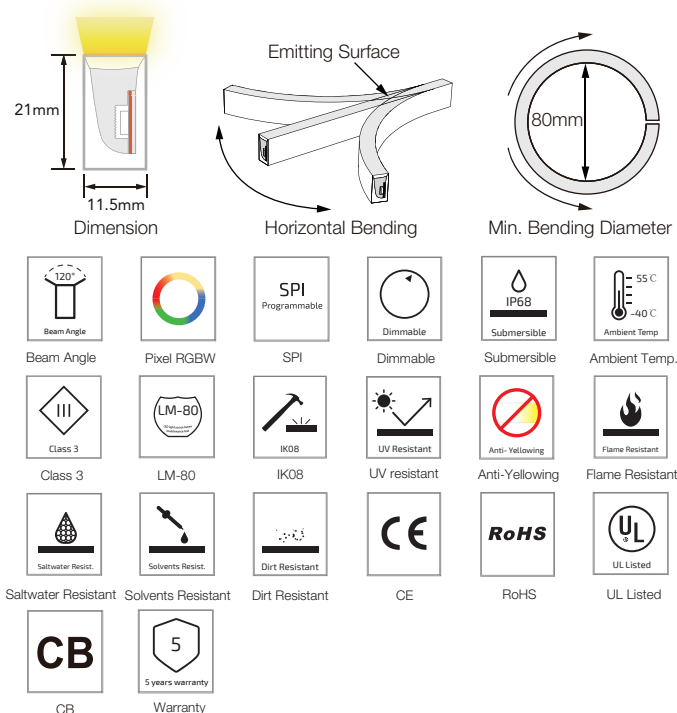


# SF15 SPI Pixel Chasing RGBW Silicone LED Linear Flex

## SF15-24V-5050-70-SPI4-RGBW

### Specification



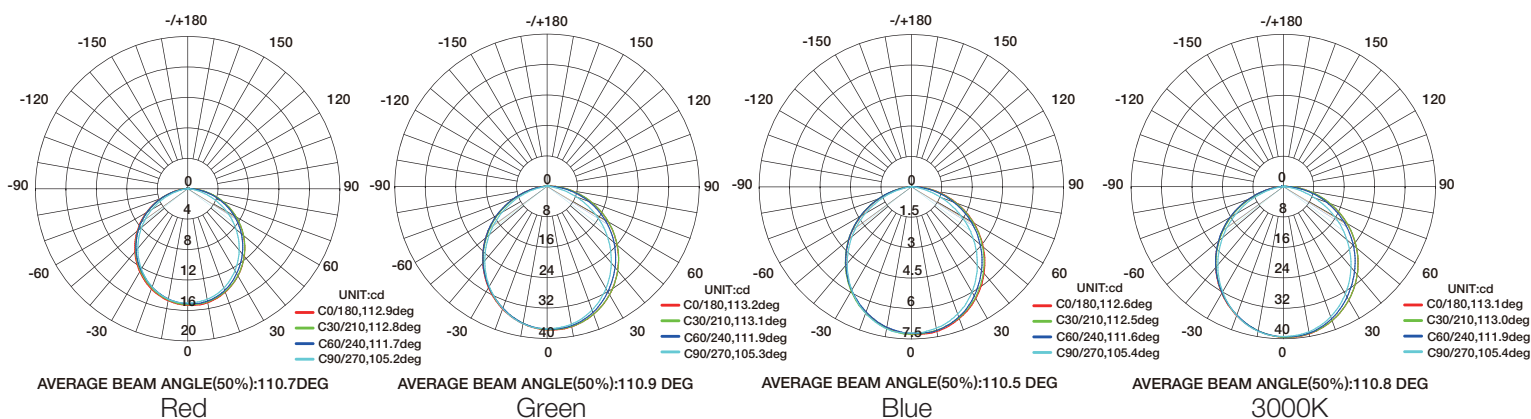
### Technical Parameters

| 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 | 80mm                                               |
| 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            | 120°                                               |
| Lumen Maintenance     | 70,000 Hours L70 @ 25°C<br>50,000 Hours L70 @ 50°C |

| Emitting Color                                                                      |       | Lumen Output |
|-------------------------------------------------------------------------------------|-------|--------------|
|    | Red   | 43lm/m       |
|   | Green | 108lm/m      |
|  | Blue  | 20lm/m       |
|  | RGBW  | 246lm/m      |
|  | 3000K | 113lm/m      |

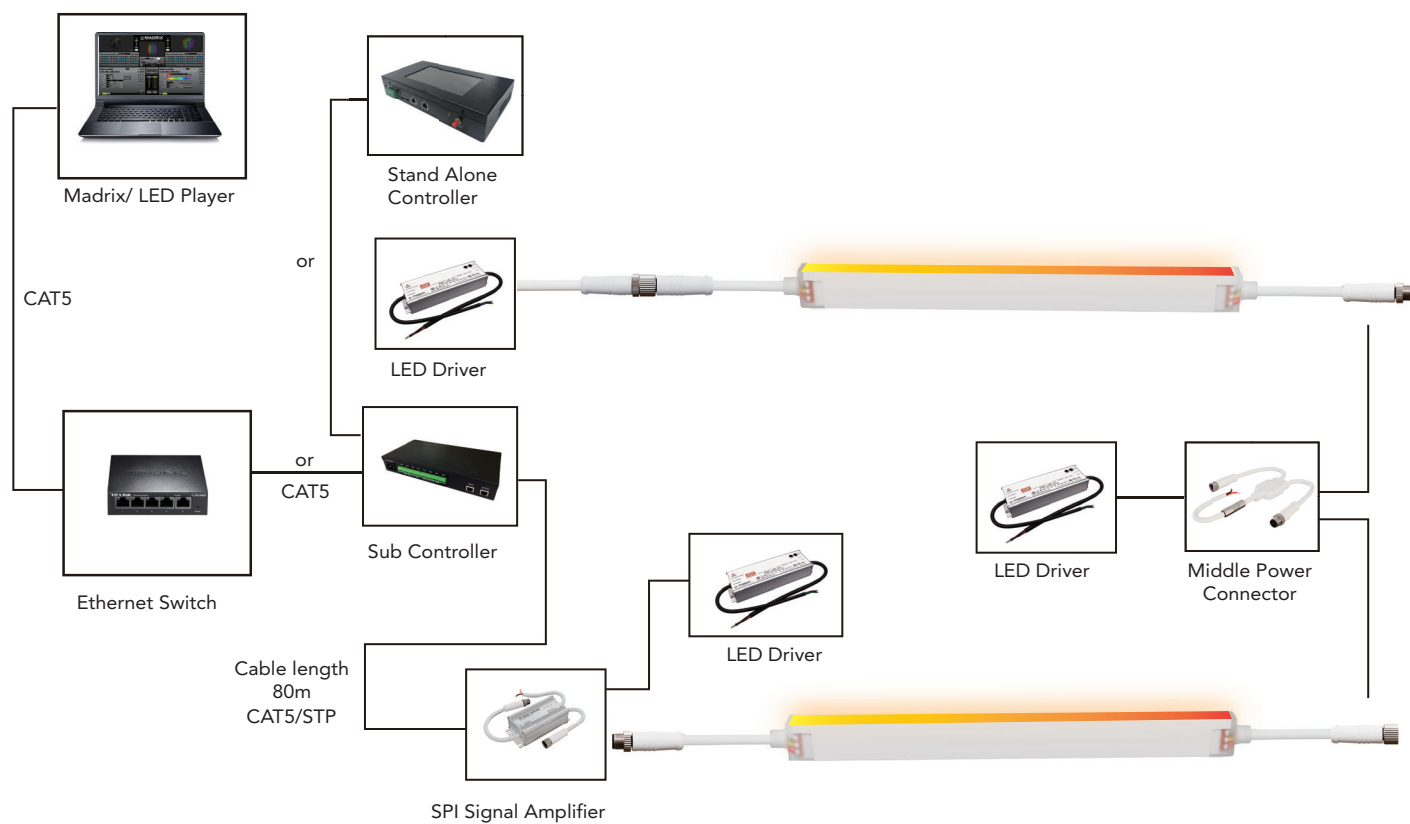
| Temperature Ranges |                                   |
|--------------------|-----------------------------------|
| Installation       | 0°C to 50°C                       |
| Operating          | -40°C to 55°C                     |
| Dependability      |                                   |
| Warranty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

### Illuminance Distribution



# SF15 SPI Pixel Chasing RGBW Silicone LED Linear Flex

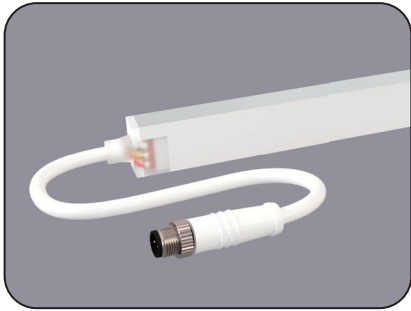
## Connection



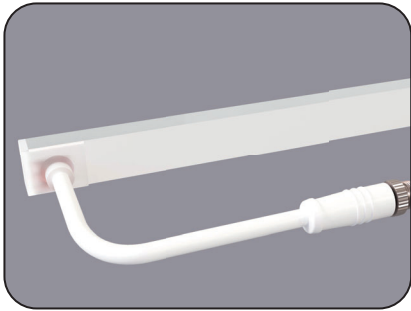
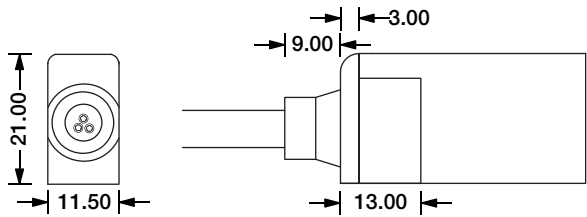
Continuous cable between light is suggested not more than 1m, the total length of cable after amplifier is suggested not more than 5m.

# SF15 Configuration and Accessories

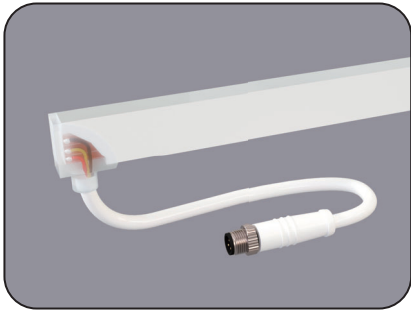
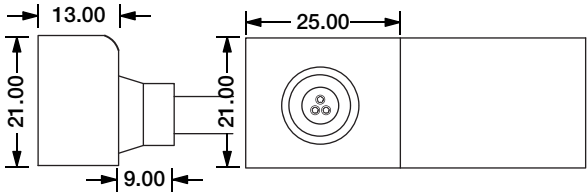
Mold injection Connector (IP68 Factory Assembly Only)



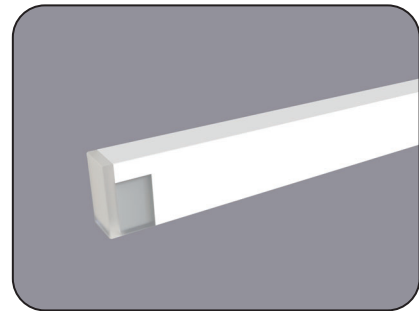
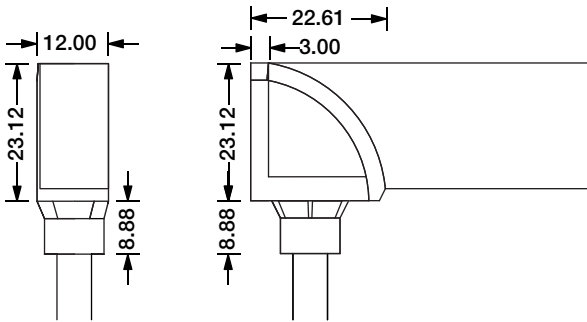
Direct Entry Connector  
MJ-SF15-D3-D02SM  
MJ-SF15-D3-D03SFM



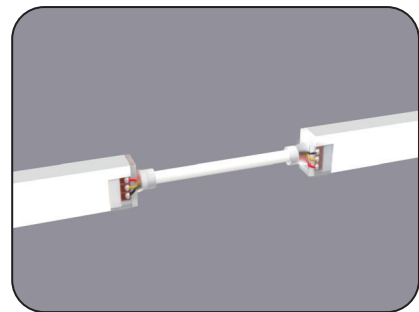
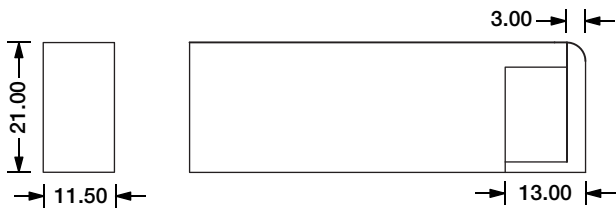
Side Entry Connector  
MJ-SF15-D3-S02SM  
MJ-SF15-D3-S03SFM



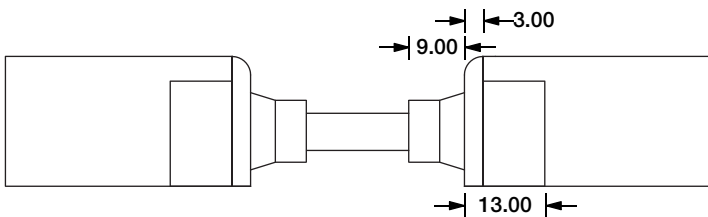
Bottom Entry Connector  
MJ-SF15-D3-B02SM  
MJ-SF15-D3-B03SFM



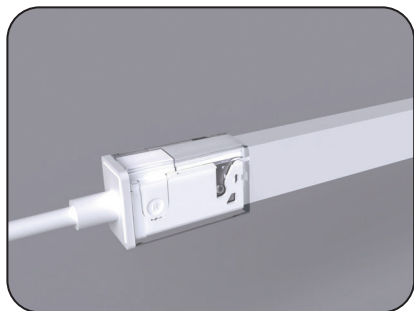
End Cap



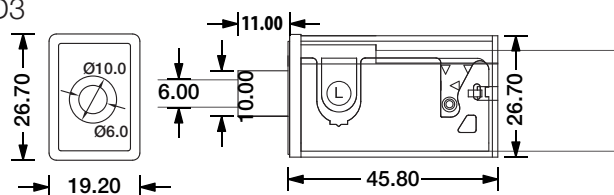
Jumper  
MJ-SF15-D3-D-JC



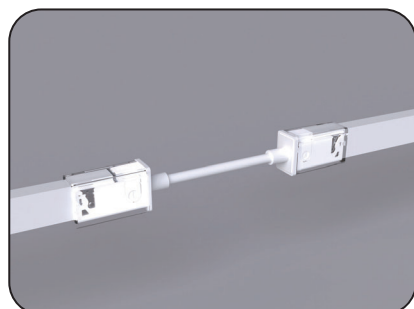
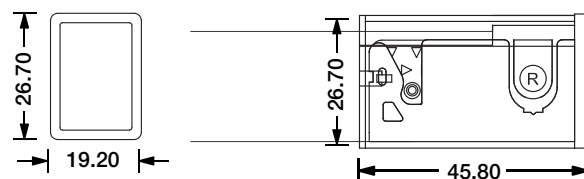
# SF15 Configuration and Accessories



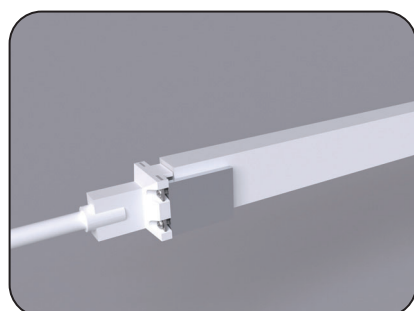
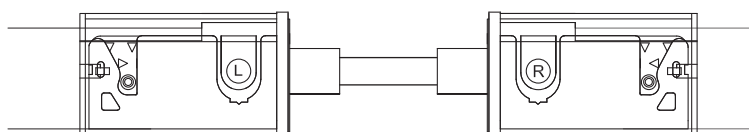
DIY Snap Connector  
DIY-SN-FR-15-D-01/02-D3



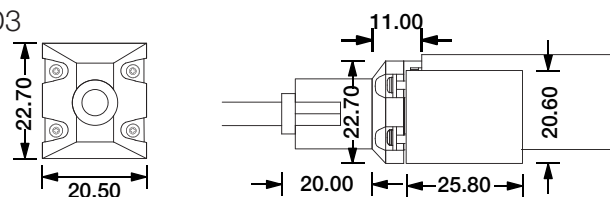
DIY Snap End Cap  
DIY-SN-END-15-D-01/02



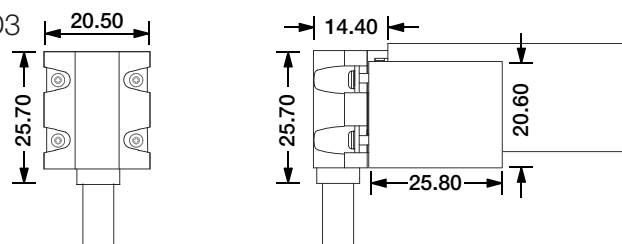
DIY Snap Extent Connector  
DIY-SN-EXT-15-D3



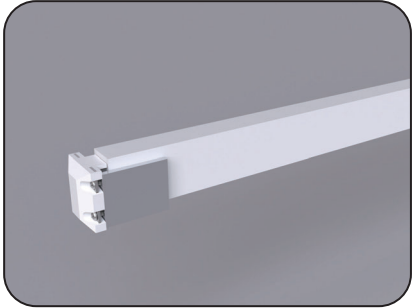
DIY Screw Connector  
DIY-SC-FR-15-D-01/02-D3



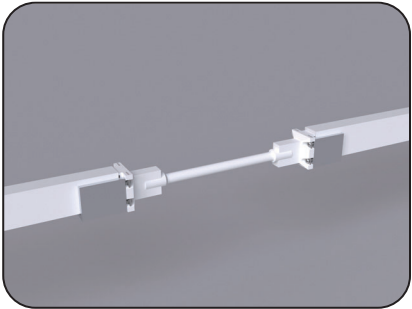
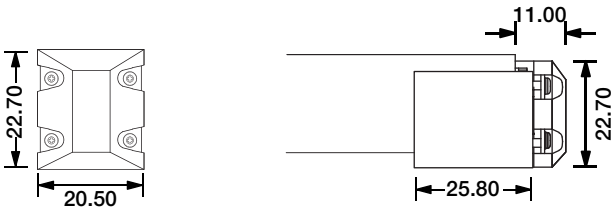
DIY Screw Connector  
DIY-SC-FR-15-B-01/02-D3



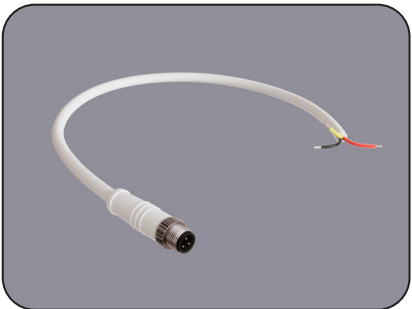
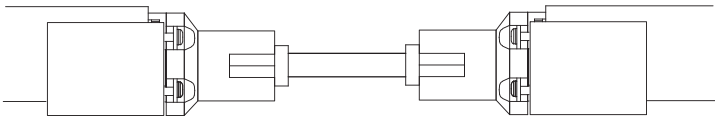
# SF15 Configuration and Accessories



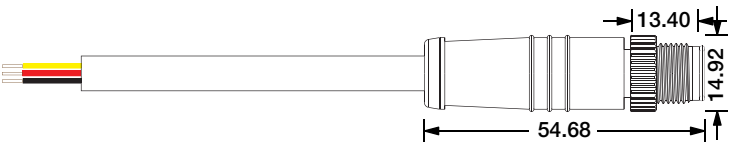
DIY Screw End Cap  
DIY-SC-END-15



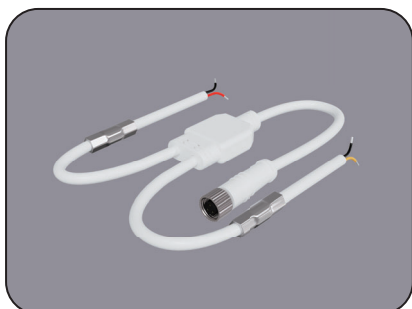
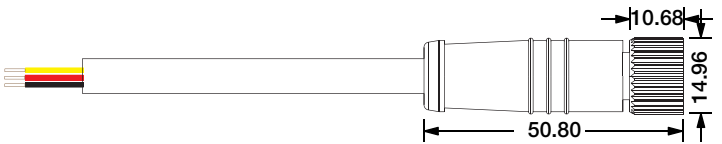
DIY Screw Extent Connector  
DIY-SC-EXT-15-D3



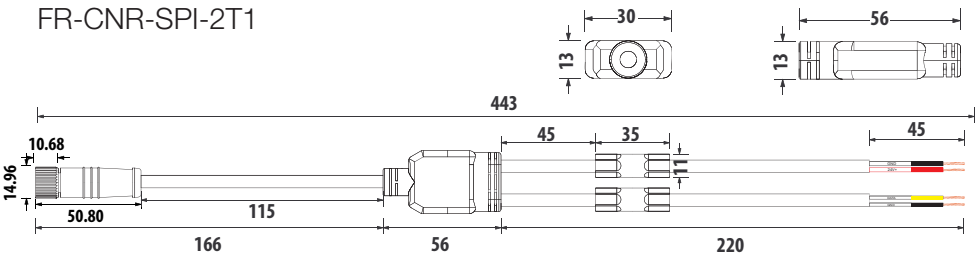
Male Connector  
M12-M-3C-20AWG-D6-W-0327-S



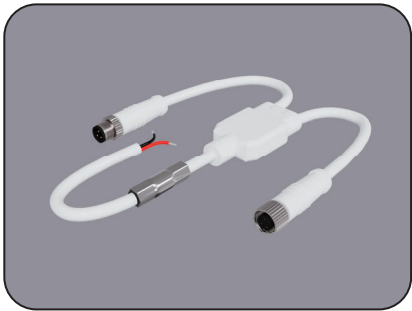
Female Connector  
M12-F-3C-20AWG-D6-W-0327-S



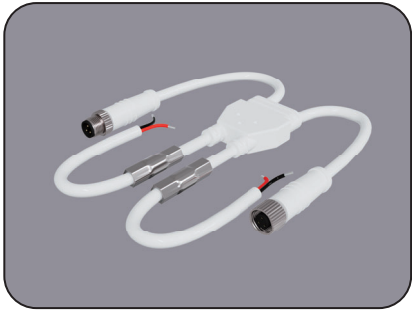
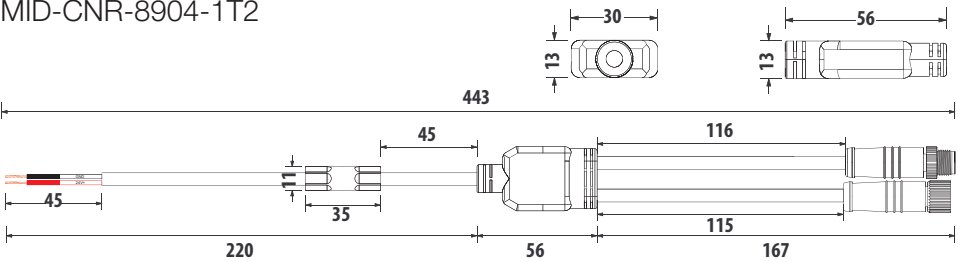
Front Signal & Power Connector  
FR-CNR-SPI-2T1



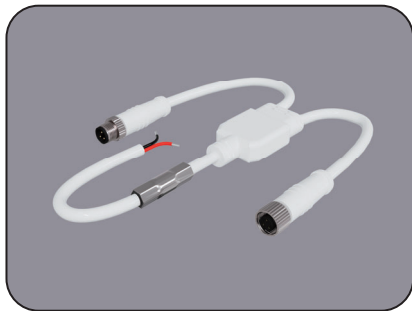
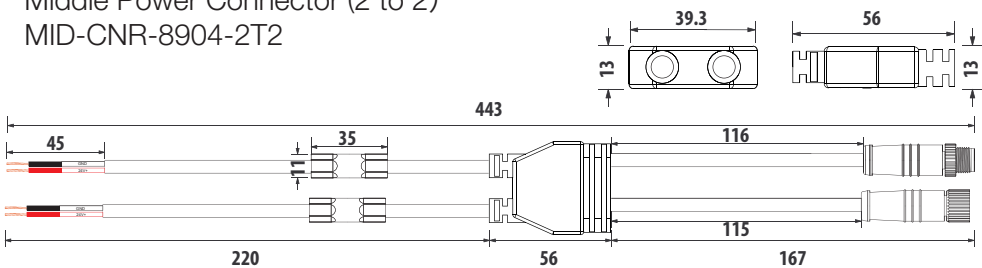
# SF15 Configuration and Accessories



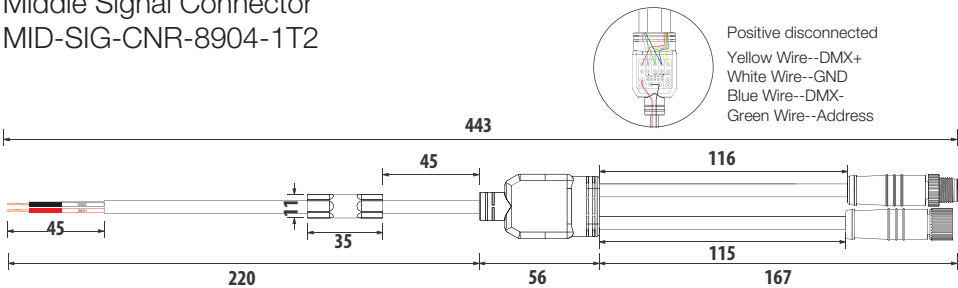
Middle Power Connector (1 to 2)  
MID-CNR-8904-1T2



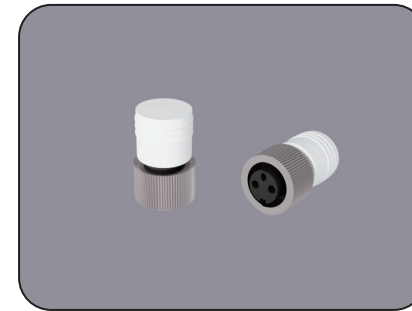
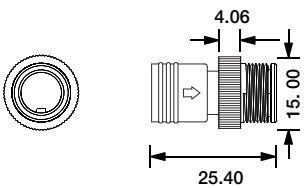
Middle Power Connector (2 to 2)  
MID-CNR-8904-2T2



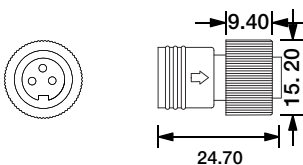
Middle Signal Connector  
MID-SIG-CNR-8904-1T2



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



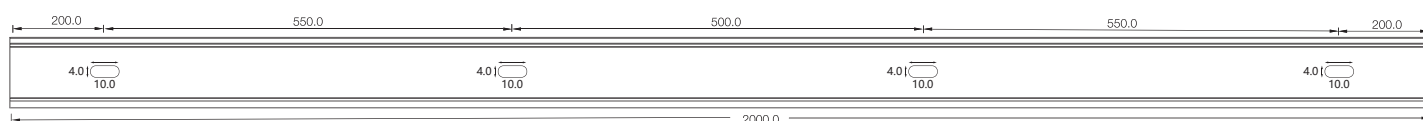
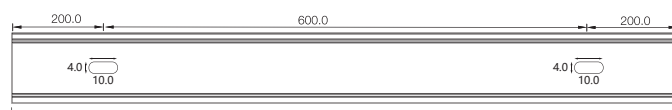
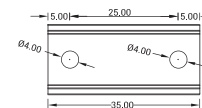
Installation Way



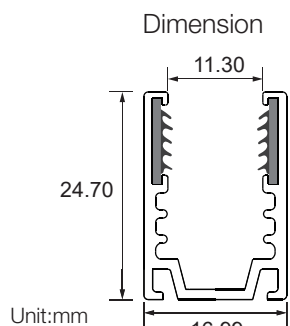
Surface Mounted



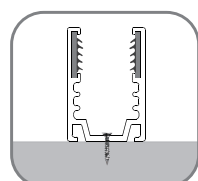
Recessed



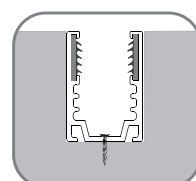
| Model        | W x H(mm)   | Standard Length | Screw Holes | Holes Numbers | Suitable Product |
|--------------|-------------|-----------------|-------------|---------------|------------------|
| ALC15S01-035 | 15.10*24.40 | 35mm            | Φ4.0mm      | 2             | F15, SF15        |
| ALC15S01-100 |             | 1000mm          | ○4.0mm      | 2             | F15, SF15        |
| ALC15S01-200 |             | 2000mm          | ○4.0mm      | 4             | F15, SF15        |



Installation Way

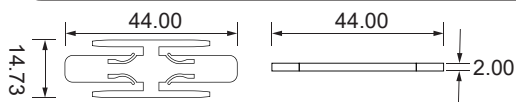
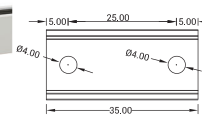


Surface Mounted

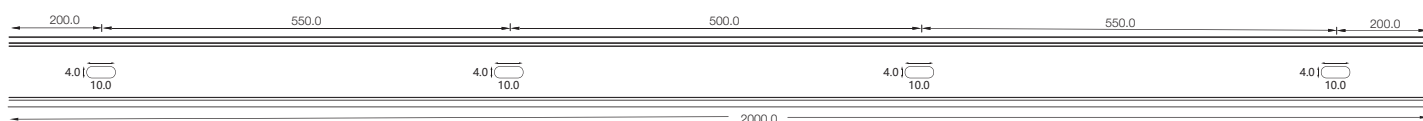


Recessed

Splice Accessories



Splice Accessories: ALC15S04-SP



| Model        | W x H(mm)   | Standard Length | Screw Holes | Holes Numbers | Suitable Product |
|--------------|-------------|-----------------|-------------|---------------|------------------|
| ALC15S04-035 | 16.99*24.70 | 35mm            | Φ4.0mm      | 2             | F15, SF15        |
| ALC15S04-100 |             | 1000mm          | ○4.0mm      | 2             | F15, SF15        |
| ALC15S04-200 |             | 2000mm          | ○4.0mm      | 4             | F15, SF15        |

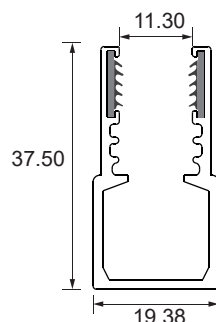
# LED Linear Flex Mounting Channel



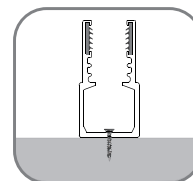
ALC15H05

Unit:mm

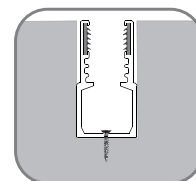
## Dimension



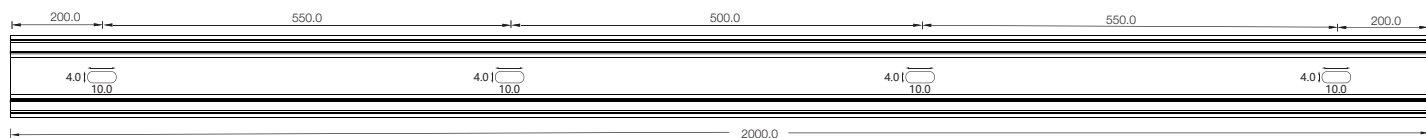
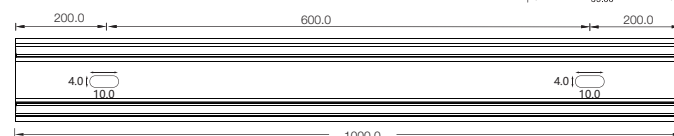
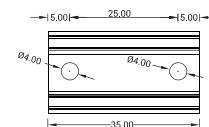
## Installation Way



Surface Mounted



Recessed



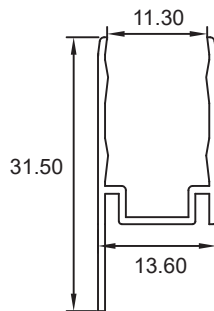
| Model        | W x H(mm)   | Standard Length | Screw Holes | Holes Numbers | Suitable Product |
|--------------|-------------|-----------------|-------------|---------------|------------------|
| ALC15H05-035 | 19.38*37.50 | 35mm            | Φ4.0mm      | 2             | F15, SF15        |
| ALC15H05-100 |             | 1000mm          | ○4.0mm      | 2             | F15, SF15        |
| ALC15H05-200 |             | 2000mm          | ○4.0mm      | 4             | F15, SF15        |

## Dimension

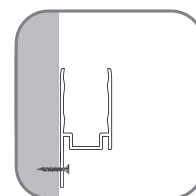


ALC15V01

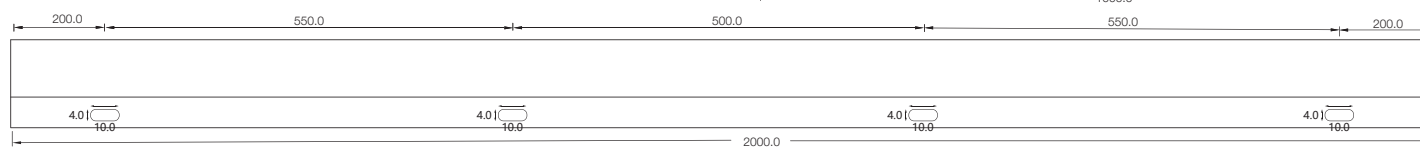
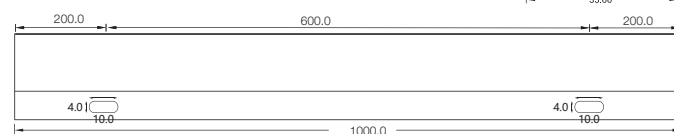
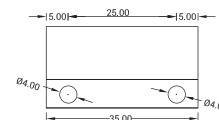
Unit:mm



## Installation Way



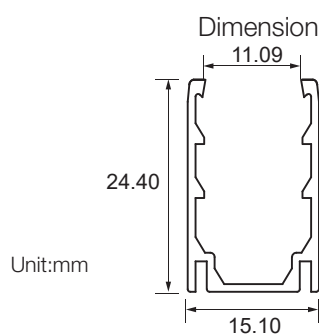
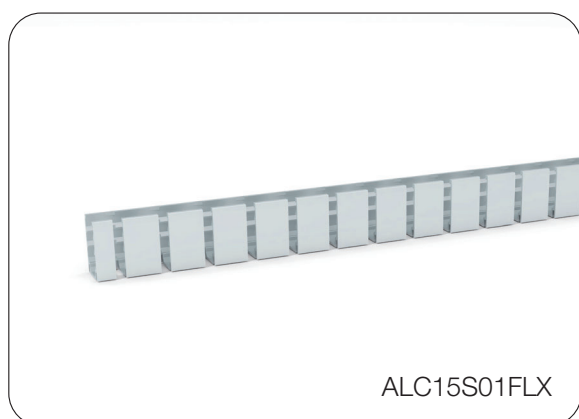
Surface Mounted



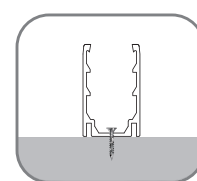
| Model        | W x H(mm)   | Standard Length | Screw Holes | Holes Numbers | Suitable Product |
|--------------|-------------|-----------------|-------------|---------------|------------------|
| ALC15V01-035 | 13.60*31.50 | 35mm            | Φ4.0mm      | 2             | F15, SF15        |
| ALC15V01-100 |             | 1000mm          | ○4.0mm      | 2             | F15, SF15        |
| ALC15V01-200 |             | 2000mm          | ○4.0mm      | 4             | F15, SF15        |

# LED Linear Flex Mounting Channel

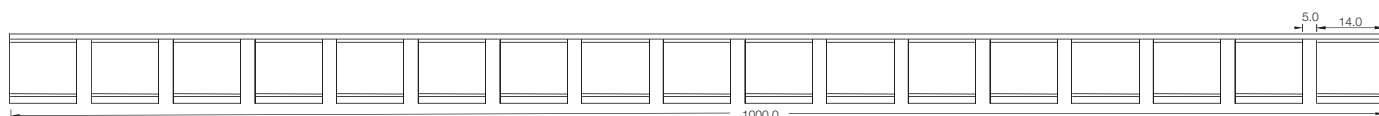
## 2. Flexible Aluminum Channel



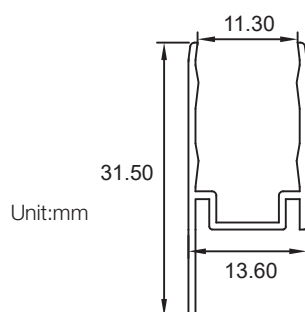
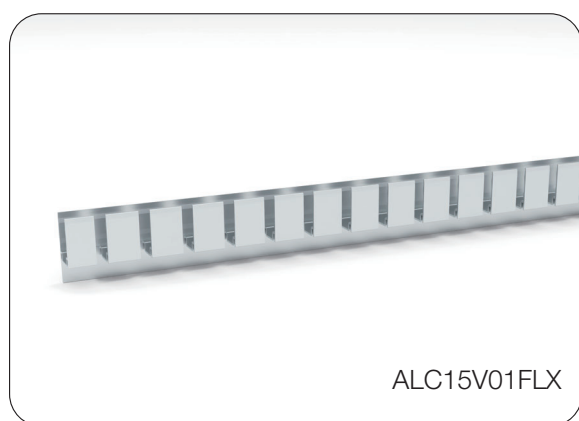
Installation Way



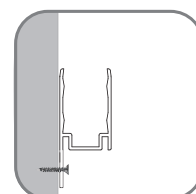
Surface Mounted



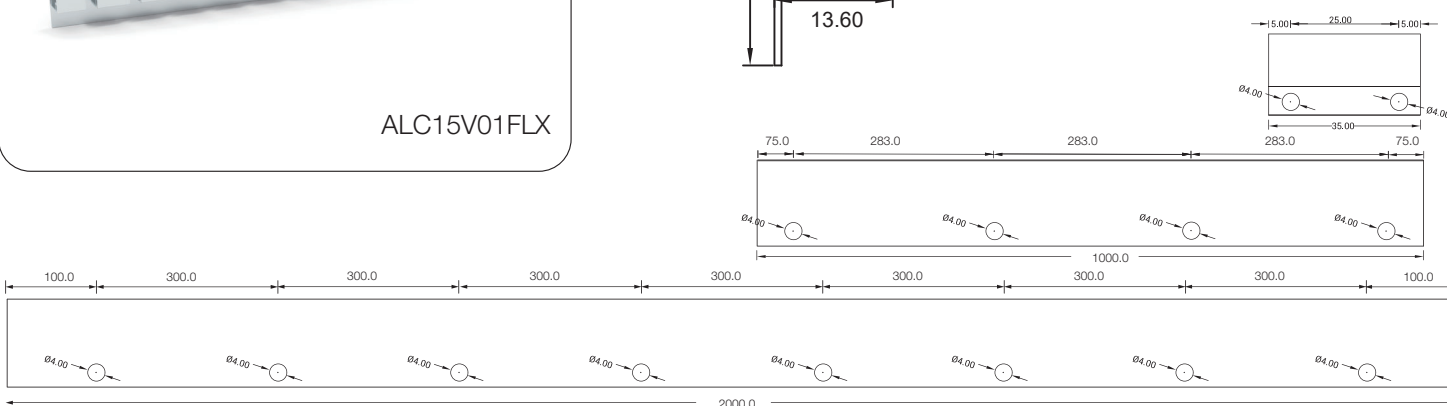
| Model         | W x H(mm)   | Standard Length | Suitable Product |
|---------------|-------------|-----------------|------------------|
| ALC15S01FLX05 | 15.10*24.40 | 500mm           | F15, SF15        |
| ALC15S01FLX10 |             | 1000mm          | F15, SF15        |



Installation Way



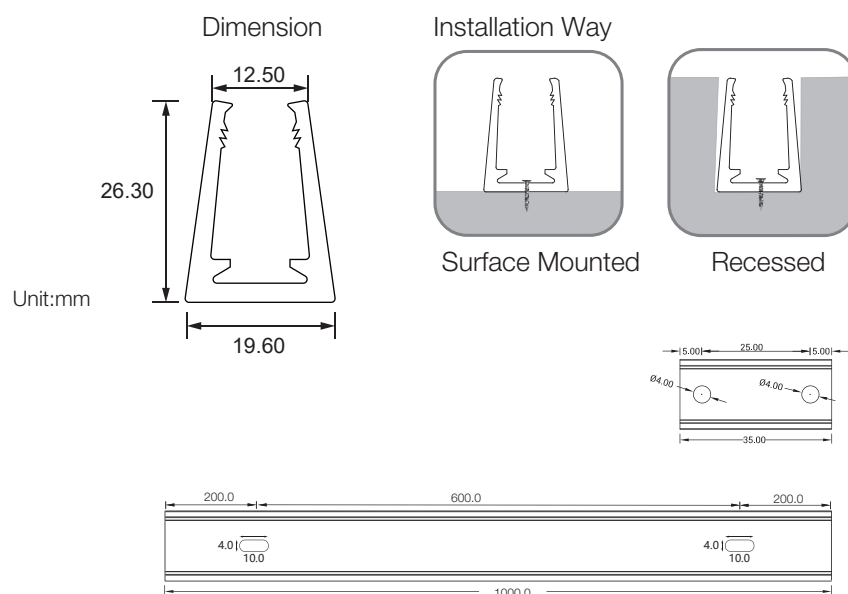
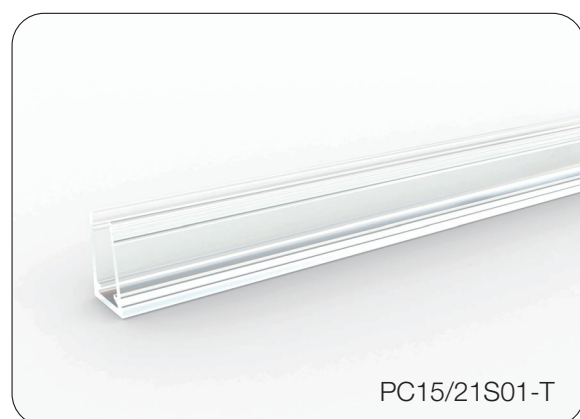
Surface Mounted



| Model           | W x H(mm)   | Standard Length | Screw Holes | Holes Numbers | Suitable Product |
|-----------------|-------------|-----------------|-------------|---------------|------------------|
| ALC15V01FLX-100 | 13.60*31.50 | 1000mm          | Ø4.0mm      | 4             | F15, SF15        |
| ALC15V01FLX-200 |             | 2000mm          | Ø4.0mm      | 8             | F15, SF15        |

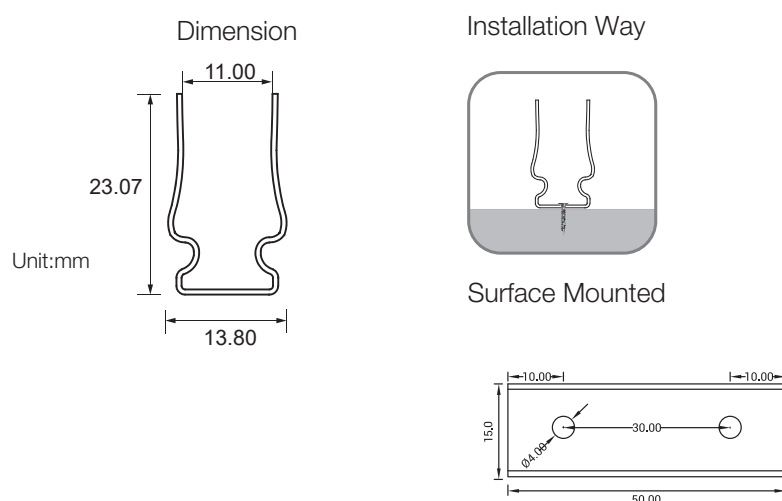
# LED Linear Flex Mounting Channel

## 3. Plastic Channel



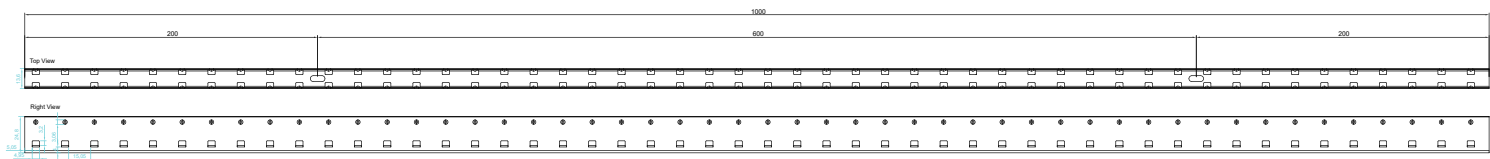
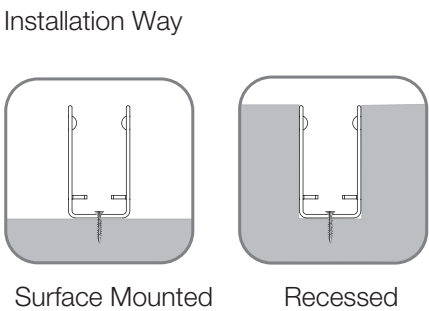
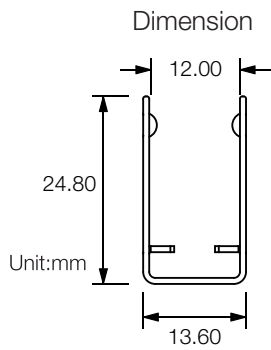
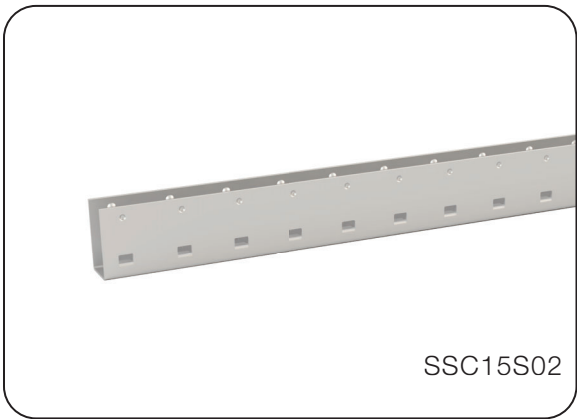
| Model            | W x H(mm)   | Standard Length | Screw Holes | Holes Numbers | Suitable Product |
|------------------|-------------|-----------------|-------------|---------------|------------------|
| PC15/21S01-T-035 | 19.60*26.30 | 35mm            | Φ4.0mm      | 2             | F15, SF15        |
| PC15/21S01-T-100 |             | 1000mm          | ○4.0mm      | 2             | F15, SF15        |

## 4. Stainless Steel Channel

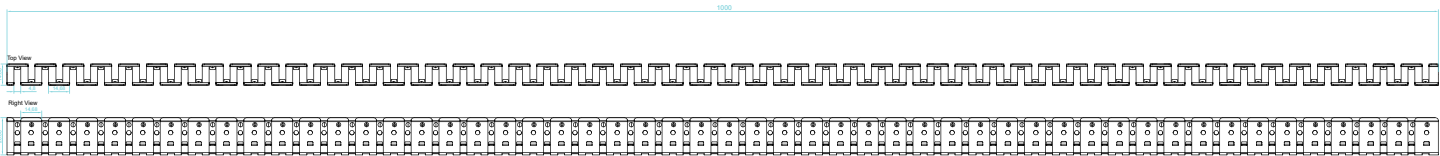
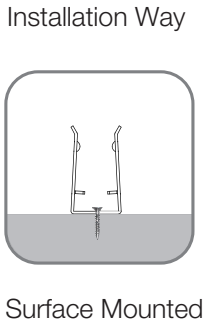
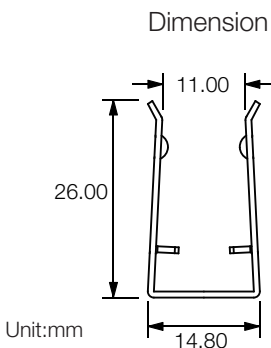
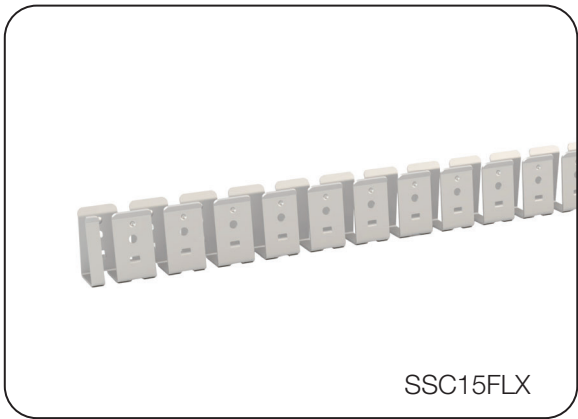


| Model       | W x H(mm)   | Standard Length | Material             | Screw Holes | Holes Numbers | Suitable Product |
|-------------|-------------|-----------------|----------------------|-------------|---------------|------------------|
| SSC15S01-05 | 13.80*23.07 | 50mm            | Stainless Steel 316L | Φ4.0mm      | 2             | F15, SF15        |

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| Model        | W x H(mm)   | Standard Length | Material             | Screw Holes | Holes Numbers | Suitable Product |
|--------------|-------------|-----------------|----------------------|-------------|---------------|------------------|
| SSC15S02-100 | 13.60*24.80 | 1000mm          | Stainless Steel 316L | 4.0x10mm    | 2             | F15, SF15        |



| Model      | W x H(mm)   | Standard Length | Material             | Suitable Product |
|------------|-------------|-----------------|----------------------|------------------|
| SSC15FLX01 | 14.80*26.00 | 100mm           | Stainless Steel 316L | F15, SF15        |
| SSC15FLX03 |             | 300mm           | Stainless Steel 316L | F15, SF15        |
| SSC15FLX05 |             | 500mm           | Stainless Steel 316L | F15, SF15        |
| SSC15FLX10 |             | 1000mm          | Stainless Steel 316L | F15, SF15        |

# 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       |

# Product Packing Details



Custom : Carton (White Box+Plastic Plate Inside)

| Product  | Packing 1                |                     |             |                 | Packing 2                |                     |             |                 |
|----------|--------------------------|---------------------|-------------|-----------------|--------------------------|---------------------|-------------|-----------------|
|          | Packing 1<br>Max. Length | Quantity<br>(Plate) | Carton Size | Gross<br>Weight | Packing 2<br>Max. Length | Quantity<br>(Plate) | Carton Size | Gross<br>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          |