

# F2219 Silicone Injection-moulded Connector IP68



**F2219A** 20AWG\*1  
22AWG\*3

**F2219B** 18AWG\*2

**F2219D/S**<sup>(SPI)</sup> 18AWG\*3

**F2219E** 20AWG\*1  
22AWG\*4

**F2219S**<sup>(DMX)</sup> 20AWG\*2  
22AWG\*3

## Recommended for

1. Wet environments.
2. High-low temperature or intense humidity and UV.
3. Customized lengths.
4. Harsh working conditions or unexpected excessively external force during construction.

## Feature

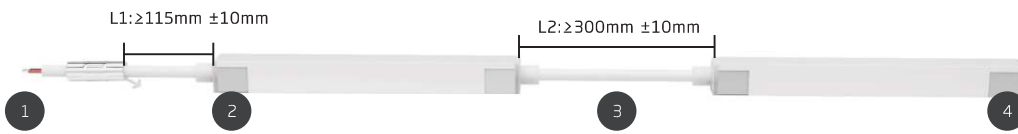
Precision milling and special glue Silicone liquid injection-moulded workmanship enable an almost consistent size between connectors and light body, and the transparent terminal of the connector allows the seamless effects spliced end by end. DryWire™ technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments.










## In-house Test

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Waterproof	1	Waterproof-IPX5 / IPX7 / IPX8	CLEAR-defined <sup>®</sup>
Connector	2	Swing-extreme	CLEAR-defined <sup>®</sup>

<sup>®</sup>Before waterproof test, high-low temperature cycling shock test has been implemented to simulate the outdoor harsh weather, and it's a more stringent standard we're compliant with than third party's.

# Connector Type



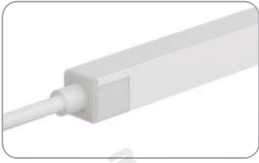
1	2	3	4
<p>Male &amp; Female Connector (Optional)</p>  <p>Male Connector</p>  <p>Female Connector</p>	<p>Silicone Injection-moulded Front Connector</p>  <p>End</p>  <p>Side-L</p>  <p>Side-R</p>  <p>Bottom</p>	<p>Silicone Injection-moulded Middle Connector</p>  <p>Silicone Injection-moulded Jumper Maximum 8 jumpers in 20m light Maximum 4 jumpers in 10m light</p>  <p>Silicone Injection-moulded T-feed Maximum 8 T-feeds in 20m light Maximum 4 T-feeds in 10m light</p>	<p>Silicone Injection-moulded End Cap</p>  <p>End cap</p>

**Note:**

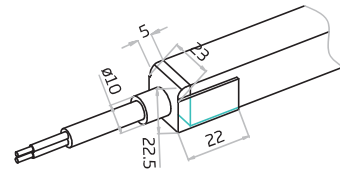
1. Please ensure the cable length is not more than the "maximum cable length" in the table \*\*\* of page \*\*\* according to light length and its wire gauge to minimize voltage drop.
2. All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.
3. The tolerance range of cable length enlarges as the cable becomes longer, maximum up to  $\pm 50\text{mm}$ .

# Dimension: mm

## Silicone Injection-moulded Front Connector-End



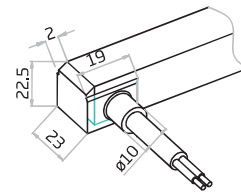
F2219B/F2219D/F2219A/F2219E/F2219S-VB-SIM/FC-01/02-E



## Silicone Injection-moulded Front Connector-Side



F2219B/F2219D/F2219A/F2219E/F2219S-VB-SIM/FC-01/02-SL

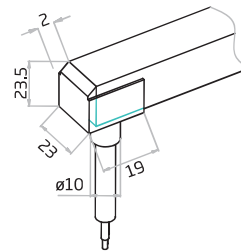


F2219B/F2219D/F2219A/F2219E/F2219S-VB-SIM/FC-01/02-SR

## Silicone Injection-moulded Front Connector-Bottom



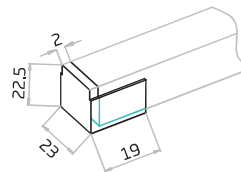
F2219B/F2219D/F2219A/F2219E/F2219S-VB-SIM/FC-01/02-B



## Silicone Injection-moulded End Cap



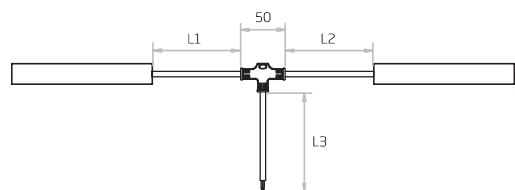
F2219-SIM/EC



## Silicone Injection-moulded Middle Connector & Power T-feed



F2219B/F2219D/F2219A/F2219E/F2219S-VB-SIM/MC-PTF  
L1 and L2 available in 300mm,  
L3 available in 300mm/1000mm/3000mm.



### Note:

1. Unless otherwise stated, the tolerance of the connector is  $\pm 0.5\text{mm}$ ;

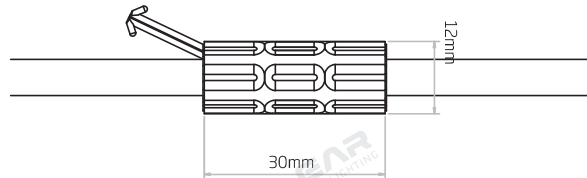
2. To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

# Anti-wicking Ferrule

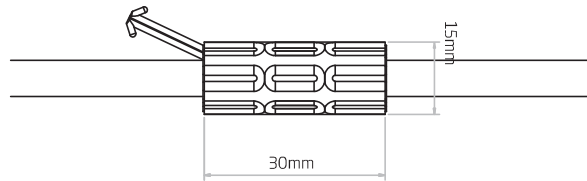


The anti-wicking ferrule is designed to lower the risk of water ingress from the cable in case of inadequate waterproof treatment on site.

For underwater application, do not immerse anti-wicking ferrule in the water.



**F2219B**  18AWG\*2



**F2219D/S (SPI)**  18AWG\*3

**F2219A**  22AWG\*3  
20AWG\*1

**F2219E**  22AWG\*4  
20AWG\*1

**F2219S (DMX)**  22AWG\*3  
20AWG\*2

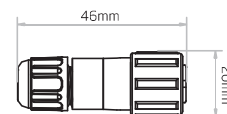
**Note:**

1. Unless otherwise stated, the tolerance is  $\pm 0.5\text{mm}$ .
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

# Male & Female Connector



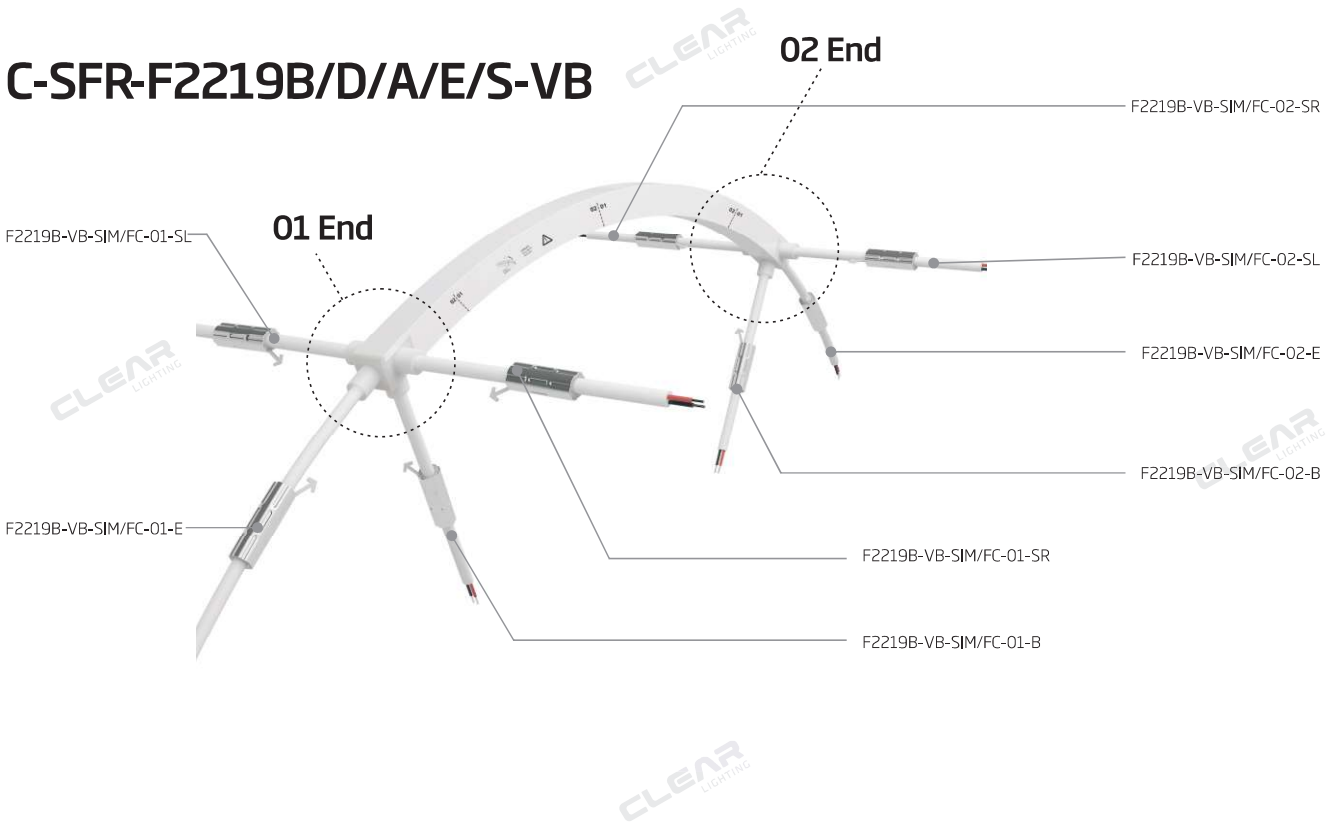
For plug and play cable junction, IP67



**Note:**

Unless otherwise stated, the tolerance is  $\pm 2\text{mm}$ .

F2219B	SIM/FC	01	B	300mm
F2219B-VB F2219D-VB F2219A-VB F2219E-VB F2219S-VB	SIM=Silicone Injection-moulded FC=Front Connector MC-PTF=Middle Connector & Power T-feed JU=Jumper EC=End Cap	01=01 End 02=02 End	E=End Feed B=Bottom Feed S=Side Feed SL=Side Feed from Left SR=Side Feed from Right	300mm Cable 1000mm Cable 3000mm Cable 5000mm Cable 10000mm Cable



Item Code(B)	Item Code(D)	Item Code(A)	Item Code(E)	Item Code(S)
F2219B-VB-SIM/FC-01-E-300mm	F2219D-VB-SIM/FC-01-E-300mm	F2219A-VB-SIM/FC-01-E-300mm	F2219E-VB-SIM/FC-01-E-300mm	F2219S-VB-SIM/FC-01-E-300mm
F2219B-VB-SIM/FC-02-E-300mm	F2219D-VB-SIM/FC-02-E-300mm	F2219A-VB-SIM/FC-02-E-300mm	F2219E-VB-SIM/FC-02-E-300mm	F2219S-VB-SIM/FC-02-E-300mm
F2219B-VB-SIM/FC-01-B-300mm	F2219D-VB-SIM/FC-01-B-300mm	F2219A-VB-SIM/FC-01-B-300mm	F2219E-VB-SIM/FC-01-B-300mm	F2219S-VB-SIM/FC-01-B-300mm
F2219B-VB-SIM/FC-02-B-300mm	F2219D-VB-SIM/FC-02-B-300mm	F2219A-VB-SIM/FC-02-B-300mm	F2219E-VB-SIM/FC-02-B-300mm	F2219S-VB-SIM/FC-02-B-300mm
F2219B-VB-SIM/FC-01-SR-300mm	F2219D-VB-SIM/FC-01-SR-300mm	F2219A-VB-SIM/FC-01-SR-300mm	F2219E-VB-SIM/FC-01-SR-300mm	F2219S-VB-SIM/FC-01-SR-300mm
F2219B-VB-SIM/FC-01-SL-300mm	F2219D-VB-SIM/FC-01-SL-300mm	F2219A-VB-SIM/FC-01-SL-300mm	F2219E-VB-SIM/FC-01-SL-300mm	F2219S-VB-SIM/FC-01-SL-300mm
F2219B-VB-SIM/FC-02-SR-300mm	F2219D-VB-SIM/FC-02-SR-300mm	F2219A-VB-SIM/FC-02-SR-300mm	F2219E-VB-SIM/FC-02-SR-300mm	F2219S-VB-SIM/FC-02-SR-300mm
F2219B-VB-SIM/FC-02-SL-300mm	F2219D-VB-SIM/FC-02-SL-300mm	F2219A-VB-SIM/FC-02-SL-300mm	F2219E-VB-SIM/FC-02-SL-300mm	F2219S-VB-SIM/FC-02-SL-300mm
F2219B-VB-SIM/MC-PTF-300mm	F2219D-VB-SIM/MC-PTF-300mm	F2219A-VB-SIM/MC-PTF-300mm	F2219E-VB-SIM/MC-PTF-300mm	F2219S-VB-SIM/MC-PTF-300mm
F2219B-VB-SIM/JU-300mm	F2219D-VB-SIM/JU-300mm	F2219A-VB-SIM/JU-300mm	F2219E-VB-SIM/JU-300mm	F2219S-VB-SIM/JU-300mm
F2219-SIM/EC	F2219-SIM/EC	F2219-SIM/EC	F2219-SIM/EC	F2219-SIM/EC