

# F22 Silicone Injection-moulded Connector IP68



## 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.

**F22B**   
18AWG\*2

**F22D/S**   
18AWG\*3

**F22A**   
22AWG\*3  
20AWG\*1

**F22E**   
22AWG\*4  
20AWG\*1

## 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.

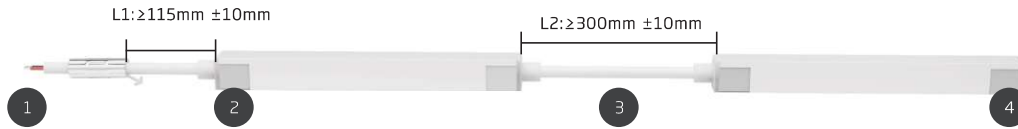
DryWire™ technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments. Light lengths can be customized on the basis of projects and pre-installation before the delivery eases the assembly trouble on site.

## 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



CLEAR LIGHTING

CLEAR LIGHTING

1	2	3	4
<p>Male &amp; Female Connector (Optional)</p> <div data-bbox="224 611 410 793"> <p>Male Connector</p> </div> <div data-bbox="224 951 410 1134"> <p>Female Connector</p> </div>	<p>Silicone Injection-moulded Front Connector</p> <div data-bbox="557 611 743 793"> <p>End</p> </div> <div data-bbox="557 951 743 1134"> <p>Side-L</p> </div> <div data-bbox="557 1291 743 1474"> <p>Side-R</p> </div> <div data-bbox="557 1631 743 1814"> <p>Bottom</p> </div>	<p>Silicone Injection-moulded Middle Connector</p> <div data-bbox="891 611 1078 793"> <p>Silicone Injection-moulded Jumper Maximum 8 jumpers in 20m light Maximum 4 jumpers in 10m light</p> </div> <div data-bbox="891 951 1078 1134"> <p>Silicone Injection-moulded T-feed Maximum 8 T-feeds in 20m light Maximum 4 T-feeds in 10m light</p> </div>	<p>Silicone Injection-moulded End Cap</p> <div data-bbox="1226 611 1412 793"> <p>End cap</p> </div>

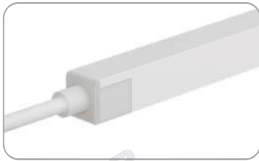
CLEAR LIGHTING

CLEAR LIGHTING

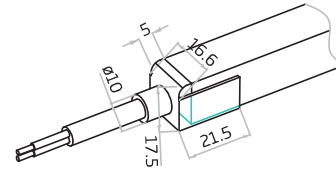
CLEAR LIGHTING

# Dimension: mm

## Silicone Injection-moulded Front Connector-End



F22B/F22D/F22A/F22E/F22S-HB-SIM/FC-01/02-E  
F22B/F22D/F22A/F22E/F22S-VB-SIM/FC-01/02-E



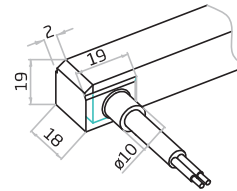
## Silicone Injection-moulded Front Connector-Side



F22B/F22D/F22A/F22E/F22S-HB-SIM/FC-02-SL  
F22B/F22D/F22A/F22E/F22S-VB-SIM/FC-01/02-SL



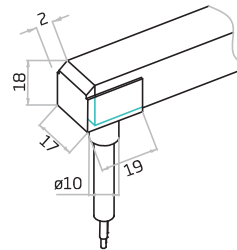
F22B/F22D/F22A/F22E/F22S-HB-SIM/FC-01-SR  
F22B/F22D/F22A/F22E/F22S-VB-SIM/FC-01/02-SR



## Silicone Injection-moulded Front Connector-Bottom



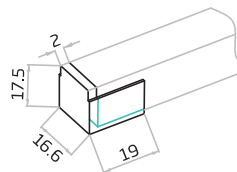
F22B/F22D/F22A/F22E/F22S-HB-SIM/FC-01/02-B  
F22B/F22D/F22A/F22E/F22S-VB-SIM/FC-01/02-B



## Silicone Injection-moulded End Cap



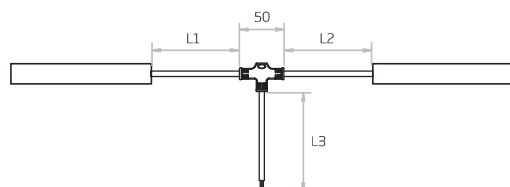
F22-SIM/EC



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



F22B/F22D/F22S-HB-SIM/MC-PTF  
F22B/F22D/F22S-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  $\pm 0.5$ mm.

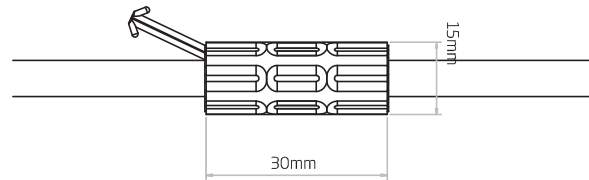
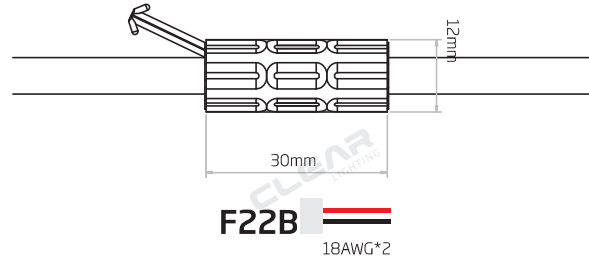
2. To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

# 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.



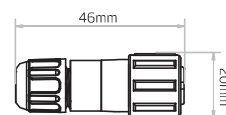
**Note:**

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



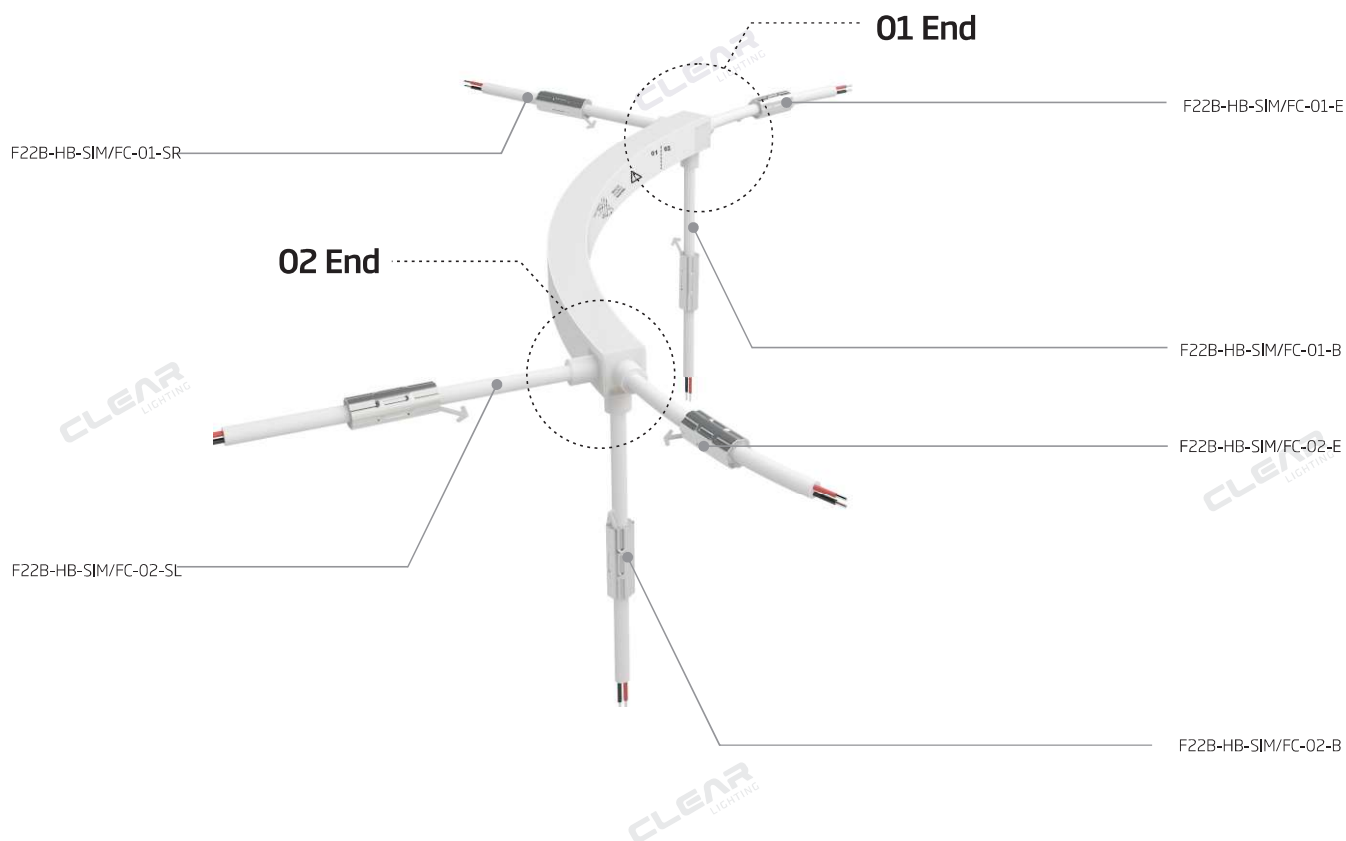
For plug and play cable junction, IP67



**Note:**

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

F22B	SIM/FC	01	B	300mm
F22B-HB F22D-HB F22A-HB F22S-HB	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 15000mm Cable 20000mm Cable



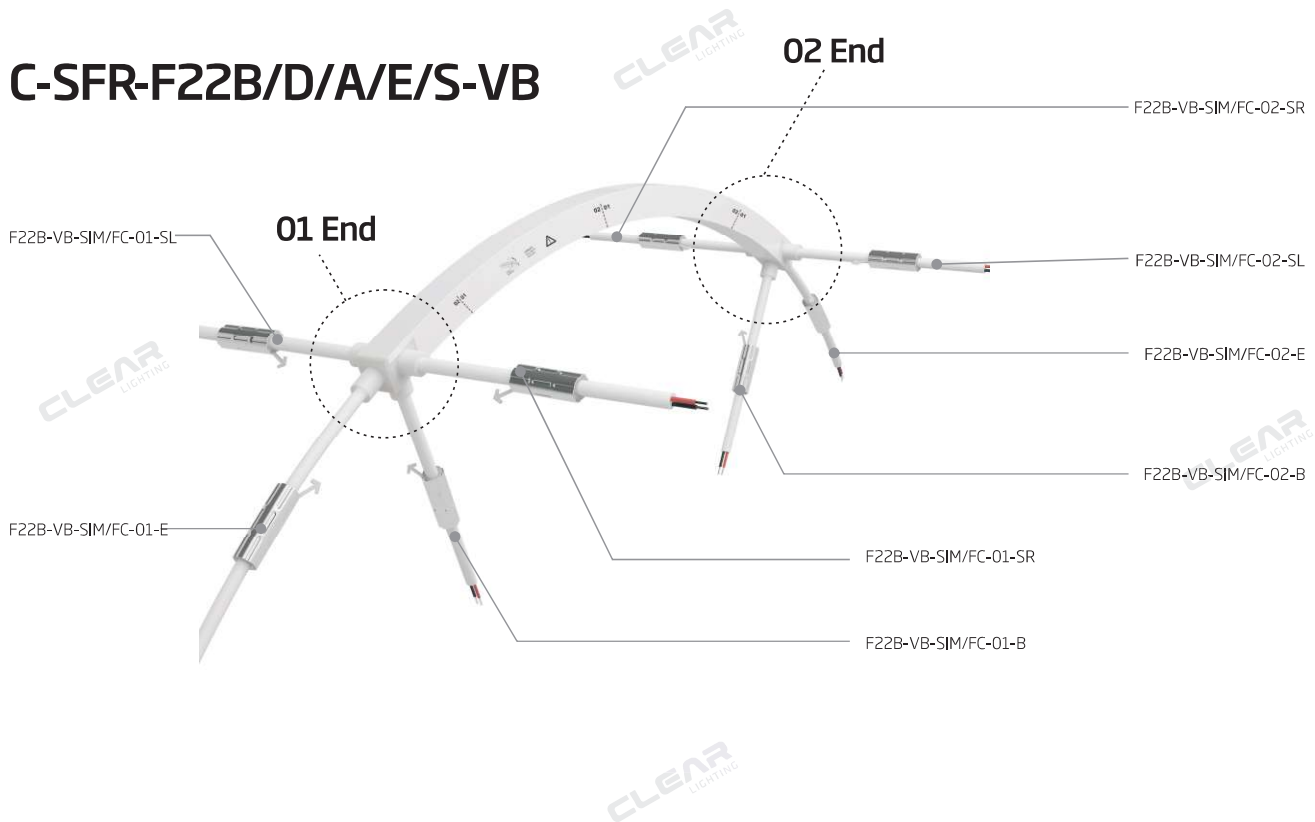
## C-SFR-F22B/D/A/S-HB

Item Code(B)	Item Code(D)	Item Code(A)	Item Code(S)
F22B-HB-SIM/FC-01-E-300mm	F22D-HB-SIM/FC-01-E-300mm	F22A-HB-SIM/FC-01-E-300mm	F22S-HB-SIM/FC-01-E-300mm
F22B-HB-SIM/FC-02-E-300mm	F22D-HB-SIM/FC-02-E-300mm	F22A-HB-SIM/FC-02-E-300mm	F22S-HB-SIM/FC-02-E-300mm
F22B-HB-SIM/FC-01-B-300mm	F22D-HB-SIM/FC-01-B-300mm	F22A-HB-SIM/FC-01-B-300mm	F22S-HB-SIM/FC-01-B-300mm
F22B-HB-SIM/FC-02-B-300mm	F22D-HB-SIM/FC-02-B-300mm	F22A-HB-SIM/FC-02-B-300mm	F22S-HB-SIM/FC-02-B-300mm
F22B-HB-SIM/FC-01-SR-300mm	F22D-HB-SIM/FC-01-SR-300mm	F22A-HB-SIM/FC-01-SR-300mm	F22S-HB-SIM/FC-01-SR-300mm
F22B-HB-SIM/FC-02-SL-300mm	F22D-HB-SIM/FC-02-SL-300mm	F22A-HB-SIM/FC-02-SL-300mm	F22S-HB-SIM/FC-02-SL-300mm
F22B-HB-SIM/MC-PTF-300mm	F22D-HB-SIM/MC-PTF-300mm	F22A-HB-SIM/MC-PTF-300mm	F22S-HB-SIM/MC-PTF-300mm
F22B-HB-SIM/JU-300mm	F22D-HB-SIM/JU-300mm	F22A-HB-SIM/JU-300mm	F22S-HB-SIM/JU-300mm
F22-SIM/EC	F22-SIM/EC	F22-SIM/EC	F22-SIM/EC
Max. Cable Length			
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**Note:**

1. Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above 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 ±50mm.

F22B	SIM/FC	01	B	300mm
F22B-VB F22D-VB F22A-VB F22E-VB F22S-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 15000mm Cable 20000mm Cable



Item Code(B)	Item Code(D)	Item Code(A)	Item Code(E)	Item Code(S)
F22B-VB-SIM/FC-01-E-300mm	F22D-VB-SIM/FC-01-E-300mm	F22A-VB-SIM/FC-01-E-300mm	F22E-VB-SIM/FC-01-E-300mm	F22S-VB-SIM/FC-01-E-300mm
F22B-VB-SIM/FC-02-E-300mm	F22D-VB-SIM/FC-02-E-300mm	F22A-VB-SIM/FC-02-E-300mm	F22E-VB-SIM/FC-02-E-300mm	F22S-VB-SIM/FC-02-E-300mm
F22B-VB-SIM/FC-01-B-300mm	F22D-VB-SIM/FC-01-B-300mm	F22A-VB-SIM/FC-01-B-300mm	F22E-VB-SIM/FC-01-B-300mm	F22S-VB-SIM/FC-01-B-300mm
F22B-VB-SIM/FC-02-B-300mm	F22D-VB-SIM/FC-02-B-300mm	F22A-VB-SIM/FC-02-B-300mm	F22E-VB-SIM/FC-02-B-300mm	F22S-VB-SIM/FC-02-B-300mm
F22B-VB-SIM/FC-01-SR-300mm	F22D-VB-SIM/FC-01-SR-300mm	F22A-VB-SIM/FC-01-SR-300mm	F22E-VB-SIM/FC-01-SR-300mm	F22S-VB-SIM/FC-01-SR-300mm
F22B-VB-SIM/FC-01-SL-300mm	F22D-VB-SIM/FC-01-SL-300mm	F22A-VB-SIM/FC-01-SL-300mm	F22E-VB-SIM/FC-01-SL-300mm	F22S-VB-SIM/FC-01-SL-300mm
F22B-VB-SIM/FC-02-SR-300mm	F22D-VB-SIM/FC-02-SR-300mm	F22A-VB-SIM/FC-02-SR-300mm	F22E-VB-SIM/FC-02-SR-300mm	F22S-VB-SIM/FC-02-SR-300mm
F22B-VB-SIM/FC-02-SL-300mm	F22D-VB-SIM/FC-02-SL-300mm	F22A-VB-SIM/FC-02-SL-300mm	F22E-VB-SIM/FC-02-SL-300mm	F22S-VB-SIM/FC-02-SL-300mm
F22B-VB-SIM/MC-PTF-300mm	F22D-VB-SIM/MC-PTF-300mm	F22A-VB-SIM/MC-PTF-300mm	F22E-VB-SIM/MC-PTF-300mm	F22S-VB-SIM/MC-PTF-300mm
F22B-VB-SIM/JU-300mm	F22D-VB-SIM/JU-300mm	F22A-VB-SIM/JU-300mm	F22E-VB-SIM/JU-300mm	F22S-VB-SIM/JU-300mm
F22-SIM/EC	F22-SIM/EC	F22-SIM/EC	F22-SIM/EC	F22-SIM/EC
Max. Cable Length				
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