

Modular DC power protection and distribution solutions  
Create space saving arrangements of fuseholders and busbars  
Install quickly, easily and safely  
5 year warranty

# DC Modular high current busbars and fuseholders

Due to the ever increasing complexity of electrical DC systems onboard of vehicles or in stationary applications, there is a growing need for a uniform set of products that significantly improves the installation time and flexibility. The TBS DC Modular product range offers a perfect solution for this. It contains a wide range of high current busbars, fuseholders and interconnection materials. Compared to more traditional and often incompatible DC distribution products, the DC Modular system offers many innovative features.

The DC Modular product range is also a perfect companion for the TBS Expert Modular battery monitor. The footprint of this advanced battery monitor fits perfectly into the DC Modular grid, allowing optimal integration with the busbars and fuse holders.

All DC Modular products are equipped with stainless steel studs, washers and nuts for optimal corrosion resistance. Tin plated high purity copper busses provide maximum conductivity, reducing heat and improving efficiency. The base material used for the DC Modular products, is made from a special fiber reinforced compound. This material offers excellent high temperature properties, good chemical resistance and high strength. This focus on the highest quality materials, ensures long lifetimes in harsh environments. All DC Modular products are designed and assembled in The Netherlands.

Easy in-system connection access due to top locked covers by convenient thumb screws

Top sides of transparent covers are equipped with recessed locations to properly add custom labels

Special fiber reinforced base material offers excellent high temperature properties, good chemical resistance and high strength

Robust transparent covers with breakouts to allow wire access from any direction

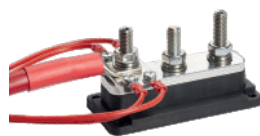
Smart terminal design allows dual mirrored cable lug connections

Tin plated high purity copper busses provide maximum conductivity, reducing heat and improving efficiency

Stainless steel studs, nuts and washers for optimal corrosion resistance



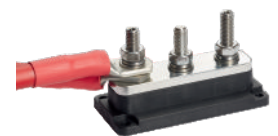
Transparent polycarbonate cover with break-out side skirts at each side, for easy cable entry



The optional adapter plate allows a mixture of high- and low power cables to be connected to the same stud



Multiple fuseholders and busbars can be connected to each other with the optional link plates



Smart terminal design allows dual mirrored cable lug connections

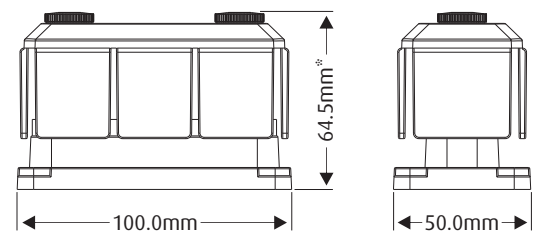
# DC Modular high current busbars

The DC Modular high current busbars are used to distribute high DC currents to a number of connected cables, or other DC Modular family members. The solid and compact design, as well as the possibility to link up multiple busbars on a fixed grid, make these products the best choice for all professional DC power systems. The high current busbars are available with M8 or M10 stud sizes.

## Features:

- Stainless steel studs, nuts and washers for optimal corrosion resistance
- Tin plated high purity copper busses provide maximum conductivity, reducing heat and improving efficiency
- Special fiber reinforced base material offers excellent high temperature properties, good chemical resistance and high strength
- Unique grid optimized footprints allow space saving arrangements of multiple products
- Common interconnection heights for easy combining of multiple products using link plates
- Robust transparent covers with breakouts to allow wire access from any direction
- Smart terminal design allows dual mirrored cable lug connections
- Easy in-system connection access due to top locked covers

## 3 stud Busbar



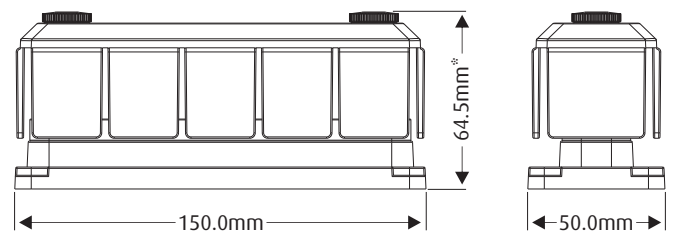
\* Total height without cover is 56.3mm

| Model            | Art.no. | Grid size | Maximum Current | Max. Voltage <sup>1)</sup> | Connection stud size |
|------------------|---------|-----------|-----------------|----------------------------|----------------------|
| DCM 3xM8 Busbar  | 5073160 | 1 x 2     | 600A            | 50V                        | M8                   |
| DCM 3xM10 Busbar | 5073180 | 1 x 2     | 600A            | 50V                        | M10                  |



<sup>1)</sup> Higher voltages may require additional safety measures

## 5 stud Busbar



\* Total height without cover is 56.3mm

| Model            | Art.no. | Grid size | Maximum Current | Max. Voltage <sup>1)</sup> | Connection stud size |
|------------------|---------|-----------|-----------------|----------------------------|----------------------|
| DCM 5xM8 Busbar  | 5075160 | 1 x 3     | 600A            | 50V                        | M8                   |
| DCM 5xM10 Busbar | 5075180 | 1 x 3     | 600A            | 50V                        | M10                  |



<sup>1)</sup> Higher voltages may require additional safety measures

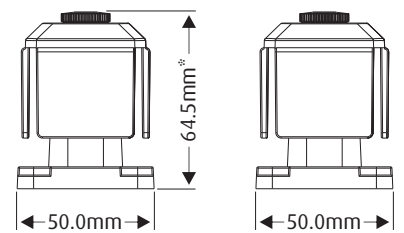
# DC Modular insulated studs

The DC Modular single and dual insulated studs are ideal parts to extend cables, add power taps or form termination end-points. The solid and compact design, as well as the possibility to link these up with other DC Modular family members, make these products the best choice for all professional DC power systems. The insulated studs are available with M8 or M10 stud sizes.

## Features:

- Stainless steel studs, nuts and washers for optimal corrosion resistance
- Special fiber reinforced base material offers excellent high temperature properties, good chemical resistance and high strength
- Unique grid optimized footprints allow space saving arrangements of multiple products
- Common interconnection heights for easy combining of multiple products using link plates
- Robust transparent covers with breakouts to allow wire access from any direction
- Top sides of transparent covers are equipped with recessed locations to properly add custom labels (Dual insulated stud only)
- Smart terminal design allows dual mirrored cable lug connections
- Easy in-system connection access due to top locked covers

## Single Insulated Stud



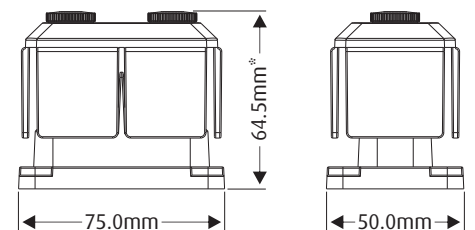
\* Total height without cover is 56.3mm

| Model                 | Art.no. | Grid size | Maximum Current | Max. Voltage <sup>1)</sup> | Connection stud size |
|-----------------------|---------|-----------|-----------------|----------------------------|----------------------|
| DCM 1xM8 Single Stud  | 5071160 | 1 x 1     | N/A             | 50V                        | M8                   |
| DCM 1xM10 Single Stud | 5071180 | 1 x 1     | N/A             | 50V                        | M10                  |

<sup>1)</sup> Higher voltages may require additional safety measures



## Dual Insulated Stud



\* Total height without cover is 56.3mm

| Model               | Art.no. | Grid size | Maximum Current | Max. Voltage <sup>1)</sup> | Connection stud size |
|---------------------|---------|-----------|-----------------|----------------------------|----------------------|
| DCM 2xM8 Dual Stud  | 5072160 | 1 x 1.5   | N/A             | 50V                        | M8                   |
| DCM 2xM10 Dual Stud | 5072180 | 1 x 1.5   | N/A             | 50V                        | M10                  |

<sup>1)</sup> Higher voltages may require additional safety measures



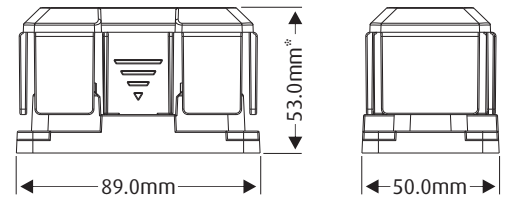
# DC Modular fuseholders

A wide range of fuseholders are available in the DC Modular lineup, covering fuse Amp ratings from 35A up to 600A. Fuseholders are offered for the Mega®, ANL and Class-T type of fuses, providing solutions for a wide range of applications. The solid and compact design, as well as the possibility to link up multiple fuseholders on a fixed grid, make these products the best choice for all professional DC power systems.

## Features:

- Stainless steel studs, nuts and washers for optimal corrosion resistance
- Tin plated high purity copper busses provide maximum conductivity, reducing heat and improving efficiency
- Special fiber reinforced base material offers excellent high temperature properties, good chemical resistance and high strength
- Unique grid optimized footprints allow space saving arrangements of multiple products
- Common interconnection heights for easy combining of multiple products using link plates (except Mega and ANL (300A) fuseholders)
- Robust transparent covers with breakouts to allow wire access from any direction
- Smart terminal design allows dual mirrored cable lug connections
- Easy in-system connection access due to top locked covers (except Mega and ANL (300A) fuseholders)

## Mega Fuseholder



\* Total height without cover is 43.5mm

| Model               | Art.no. | Grid size              | Fuse range <sup>1)</sup> | Max. Voltage <sup>2)</sup> | Connection stud size |
|---------------------|---------|------------------------|--------------------------|----------------------------|----------------------|
| DCM Mega Fuseholder | 5073300 | 1 x 1.78 <sup>3)</sup> | 40 .. 300A               | 50V                        | M8                   |

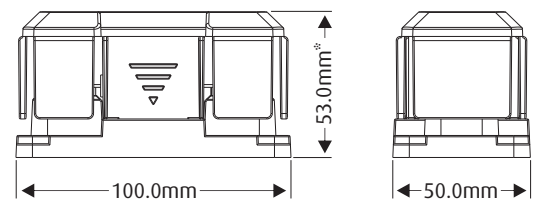
<sup>1)</sup> Compatible with Littelfuse® 'Mega' and Cooper Bussmann® 'AMG' fuses

<sup>2)</sup> Higher voltages may require additional safety measures

<sup>3)</sup> The Mega fuseholder is optimized for stand-alone use and is not compatible with link- and adapter plates



## ANL Fuseholder (300A)



\* Total height without cover is 43.5mm

| Model                         | Art.no. | Grid size           | Fuse range <sup>1)</sup> | Max. Voltage <sup>2)</sup> | Connection stud size |
|-------------------------------|---------|---------------------|--------------------------|----------------------------|----------------------|
| DCM ANL Fuseholder (300A) M8  | 5073500 | 1 x 2 <sup>3)</sup> | 35 .. 300A               | 50V                        | M8                   |
| DCM ANL Fuseholder (300A) M10 | 5073510 | 1 x 2 <sup>3)</sup> | 35 .. 300A               | 50V                        | M10                  |

<sup>1)</sup> M8 version compatible with Littelfuse® 'CNN' and 'CNL' plus Cooper Bussmann® 'ANL' and 'ANN' fuses  
M10 version compatible with Littelfuse® '157.57' plus SIBA '90 058 05' fuses

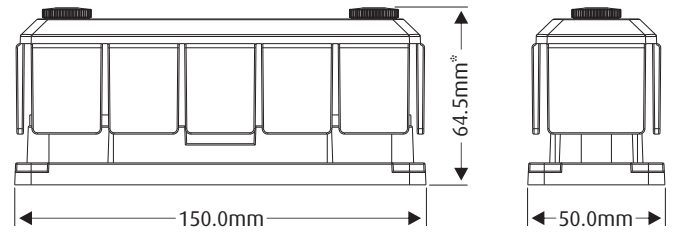
<sup>2)</sup> Higher voltages may require additional safety measures

<sup>3)</sup> The ANL fuseholder has a grid optimized footprint but is not compatible with link- and adapter plates



# DC Modular fuseholders

## ANL Fuseholder (600A)



\* Total height without cover is 56.3mm

| Model                         | Art.no. | Grid size | Fuse range <sup>1)</sup> | Max. Voltage <sup>2)</sup> | Connection stud size |
|-------------------------------|---------|-----------|--------------------------|----------------------------|----------------------|
| DCM ANL Fuseholder (600A) M8  | 5073550 | 1 x 3     | 35 .. 600A               | 50V                        | M8                   |
| DCM ANL Fuseholder (600A) M10 | 5073560 | 1 x 3     | 35 .. 600A               | 50V                        | M10                  |

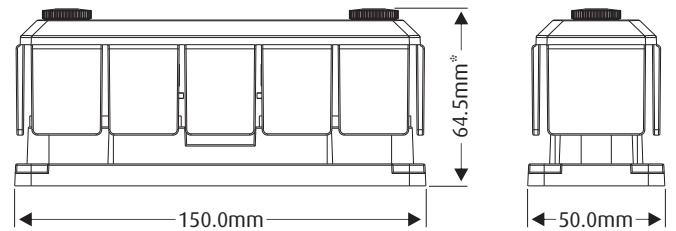


<sup>1)</sup> M8 version compatible with Littelfuse® 'CNN' and 'CNL' plus Cooper Bussmann® 'ANL' and 'ANN' fuses

M10 version compatible with Littelfuse® '157.57' plus SIBA '90 058 05' fuses

<sup>2)</sup> Higher voltages may require additional safety measures

## Class-T Fuseholder (225-400A)



\* Total height without cover is 56.3mm

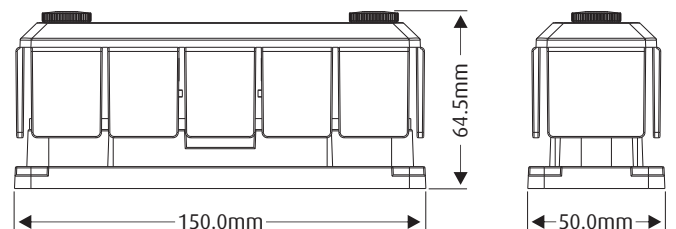
| Model                         | Art.no. | Grid size | Fuse range <sup>1)</sup> | Max. Voltage <sup>2)</sup> | Connection stud size |
|-------------------------------|---------|-----------|--------------------------|----------------------------|----------------------|
| DCM Class-T Fuseholder (400A) | 5073850 | 1 x 3     | 225 .. 400A              | 50V                        | M10                  |



<sup>1)</sup> Compatible with Littelfuse® 'JLLN', Cooper Bussmann® / Edison® 'JJN' and 'TJN' and Mersen® 'A3T' fuses

<sup>2)</sup> Higher voltages may require additional safety measures

## Class-T Fuseholder (450-600A)



\* Total height without cover is 56.3mm

| Model                         | Art.no. | Grid size | Fuse range <sup>1)</sup> | Max. Voltage <sup>2)</sup> | Connection stud size |
|-------------------------------|---------|-----------|--------------------------|----------------------------|----------------------|
| DCM Class-T Fuseholder (600A) | 5073880 | 1 x 3     | 450 .. 600A              | 50V                        | M10                  |



<sup>1)</sup> Compatible with Littelfuse® 'JLLN', Cooper Bussmann® / Edison® 'JJN' and 'TJN' and Mersen® 'A3T' fuses

<sup>2)</sup> Higher voltages may require additional safety measures

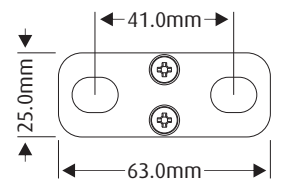
# DC Modular accessories

Due to the common interconnection heights, smart space saving arrangements of multiple DC Modular products can be made by linking these together using the optional Link Plates. We have managed to offer only two Link Plate sizes to create all possible combinations. Both Link Plates are compatible with M8 and M10 studs. Additionally, we have equipped the Link Plates with two M4 screws to provide convenient connection points for smaller cables. For this purpose only, we are also offering an Adapter Plate which allows a mixture of high and low power cables to be connected to the same stud. The Adapter Plate can be used on M8 and M10 studs and offers four connection points for smaller cables.

## Features:

- Tin plated high purity copper busses provide maximum conductivity, reducing heat and improving efficiency
- Stainless steel M4 screws and washers provide convenient connection points for smaller cables
- Compatible with M8 and M10 studs

## Link Plate 41mm

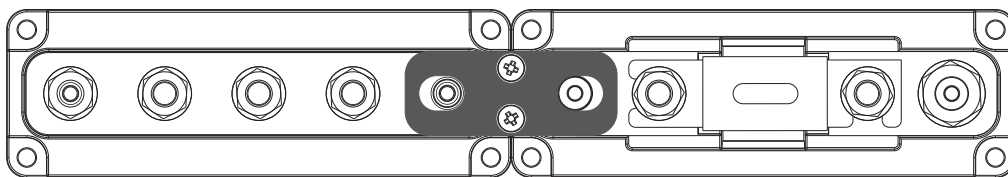


| Model <sup>1)</sup> | Art.no. | Max. Current <sup>2)</sup> | Dimensions (L x W) | Accepts stud size |
|---------------------|---------|----------------------------|--------------------|-------------------|
| DCM Link Plate 41mm | 5079062 | 600A                       | 63.0 x 25.0mm      | M8 + M10          |

<sup>1)</sup> Not compatible with "Mega" and "ANL (300A)" fuseholders

<sup>2)</sup> Current capacity can be doubled by stacking two Link Plates (after removal of M4 screws)

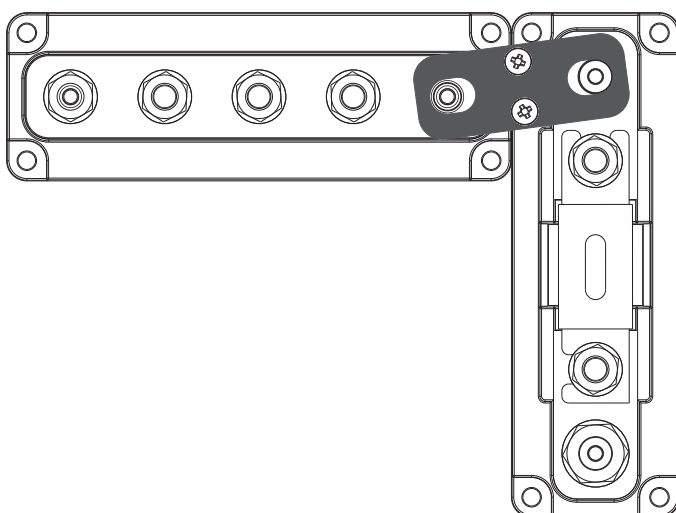
### End to end linking



### For linking to and from:

- DCM 1xM8/M10 Single Stud
- DCM 2xM8/M10 Dual Stud
- DCM 3xM8/M10 Busbar
- DCM 5xM8/M10 Busbar
- DCM ANL Fuseholder (50V/600A)
- DCM Class-T Fuseholder (50V/225-400A)
- DCM Class-T Fuseholder (50V/450-600A)

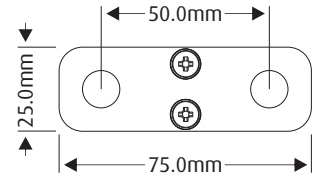
### End to side linking



### For linking to and from:

- DCM 2xM8/M10 Dual Stud
- DCM 3xM8/M10 Busbar
- DCM 5xM8/M10 Busbar
- DCM ANL Fuseholder (50V/600A)
- DCM Class-T Fuseholder (50V/225-400A)
- DCM Class-T Fuseholder (50V/450-600A)

## Link Plate 50mm

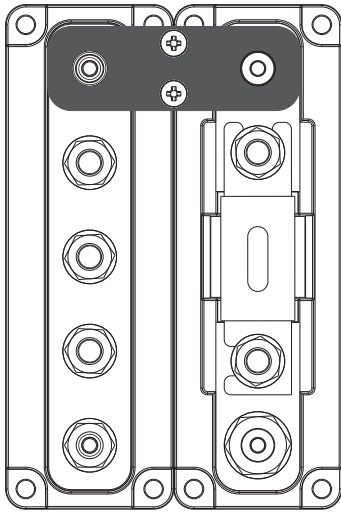


| Model <sup>1)</sup> | Art.no. | Max. Current <sup>2)</sup> | Dimensions (L x W) | Accepts stud size |
|---------------------|---------|----------------------------|--------------------|-------------------|
| DCM Link Plate 50mm | 5079072 | 600A                       | 75.0 x 25.0mm      | M8 + M10          |

<sup>1)</sup> Not compatible with "Mega" and "ANL (300A)" fuseholders

<sup>2)</sup> Current capacity can be doubled by stacking two Link Plates (after removal of M4 screws)

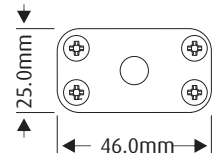
### Side to side linking



#### For linking to and from:

- DCM 1xM8/M10 Single Stud
- DCM 2xM8/M10 Dual Stud
- DCM 3xM8/M10 Busbar
- DCM 5xM8/M10 Busbar
- DCM ANL Fuseholder (50V/600A)
- DCM Class-T Fuseholder (50V/225-400A)
- DCM Class-T Fuseholder (50V/450-600A)

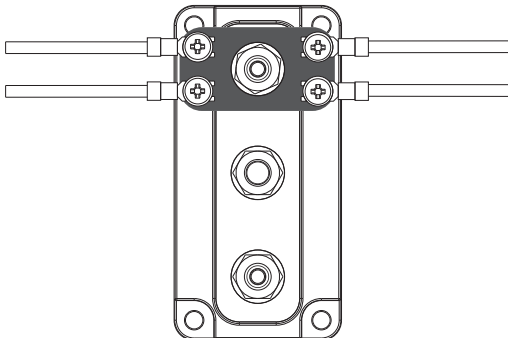
## Adapter Plate



| Model <sup>1)</sup>              | Art.no. | Max. Current | Dimensions (L x W) | Accepts stud size |
|----------------------------------|---------|--------------|--------------------|-------------------|
| Adapter Plate (1xM8/M10 to 4xM4) | 5079020 | 600A         | 46.0 x 25.0mm      | M8 + M10          |

<sup>1)</sup> Not compatible with "Mega" and "ANL (300A)" fuseholders

### For converting an M8 or M10 stud to 4xM4 fork/ring terminals





[www.tbs-electronics.com](http://www.tbs-electronics.com)



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All specifications are subject to change without notice  
DCM-EN-REVD