

## B2CF 3.50/20/180LR SN OR BX

Weidmüller Interface GmbH & Co. KG

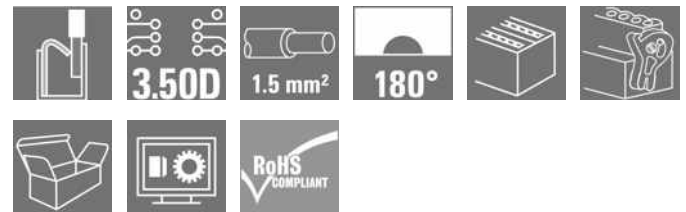
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

### Product image



### Two-row female plug with PUSH IN spring connection

- Simply insert the prepared wire - and you're done
- Intuitive to use because
- the wire-entry area and handling area are clearly separated
- Integrated push-buttons for opening the terminal point
- High component density because of low heights
- Optional: locking and releasing require no tools when using Weidmüller's release latch (LR) or release lever (LH)

### General ordering data

|              |  |
|--------------|--|
| Version      | PCB plug-in connector, female plug, 3.50 mm, Number of poles: 20, 180°, PUSH IN with actuator, Clamping range, max. : 1.5 mm², Box |
| Order No.    | <a href="#">1278 120000</a>  |
| Type         | B2CF 3.50/20/180LR SN OR BX  |
| GTIN (EAN)   | 4050118069013  |
| Qty.         | 42 pc(s).  |
| Product data | IEC: 320 V / 13.4 A / 0.14 - 1.5 mm²<br>UL: 300 V / 9.5 A / AWG 30 - AWG 16  |
| Packaging    | Box  |

Creation date August 31, 2023 3:08:32 PM CEST

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**Technical data****Dimensions and weights**

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 29.9 mm  | Depth (inches)  | 1.177 inch |
| Height     | 17.25 mm | Height (inches) | 0.679 inch |
| Width      | 41.9 mm  | Width (inches)  | 1.65 inch  |
| Net weight | 13.64 g  |                 |            |

**Temperatures**

|                             |        |                             |        |
|-----------------------------|--------|-----------------------------|--------|
| Operating temperature, min. | -50 °C | Operating temperature, max. | 120 °C |
|-----------------------------|--------|-----------------------------|--------|

**System Parameters**

|  |   |  |                              |
|--|---|--|------------------------------|
| Product family                               | OMNIMATE Signal - series B2C/S2C 3.50 - 2-row | Type of connection                         | Field connection             |
| Wire connection method                       | PUSH IN with actuator                         | Pitch in mm (P)                            | 3.5 mm                       |
| Pitch in inches (P)                          | 0.138 inch                                    | Conductor outlet direction                 | 180°                         |
| Number of poles                              | 20  | L1 in mm                                   | 31.5 mm                      |
| L1 in inches                                 | 1.24 inch                                     | Number of rows                             | 1                            |
| Pin series quantity                          | 2   | Rated cross-section                        | 1.5 mm <sup>2</sup>          |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch                        | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged |
| Protection degree                            | IP20, when fully mounted                      | Can be coded                               | Yes                          |
| Stripping length                             | 10 mm   | Screwdriver blade                          | 0.4 x 2.5                    |
| Screwdriver blade standard                   | DIN 5264                                      | Plugging cycles                            | 25                           |
| Plugging force/pole, max.                    | 3.5 N   | Pulling force/pole, max.                   | 3.5 N                        |

**Material data**

|                                       |             |                                       |                            |
|---------------------------------------|-------------|---------------------------------------|----------------------------|
| Insulating material                   | PA 66 GF 30 | Colour                                | orange                     |
| Colour chart (similar)                | RAL 2000    | Insulating material group             | II                         |
| Comparative Tracking Index (CTI)      | ≥ 600       | Insulation strength                   | ≥ 10 <sup>8</sup> Ω        |
| UL 94 flammability rating             | V-0         | Contact material                      | Copper alloy               |
| Contact surface                       | tinned      | Layer structure of plug contact       | 2...5 µm Sn hot-dip tinned |
| Storage temperature, min.             | -40 °C      | Storage temperature, max.             | 70 °C                      |
| Operating temperature, min.           | -50 °C      | Operating temperature, max.           | 120 °C                     |
| Temperature range, installation, min. | -40 °C      | Temperature range, installation, max. | 120 °C                     |

**Conductors suitable for connection**

|   |                      |
|---|----------------------|
| Clamping range, min.                            | 0.14 mm <sup>2</sup> |
| Clamping range, max.                            | 1.5 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.         | AWG 30               |
| Wire connection cross section AWG, max.         | AWG 16               |
| Solid, min. H05(07) V-U                         | 0.14 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                         | 1.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                      | 0.14 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                      | 1.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.14 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 1 mm <sup>2</sup>    |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.14 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, max.       | 1.5 mm <sup>2</sup>  |

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## Technical data

|  |  |                              |                                 |
|--|--|------------------------------|---------------------------------|
| Clampable conductor                    | Cross-section for conductor connection | nominal                      | 0.14 mm <sup>2</sup>            |
|  | wire end ferrule                       | Stripping length             | nominal 10 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.14/12 GR SV</a>  |
|  | Cross-section for conductor connection | nominal                      | 0.25 mm <sup>2</sup>            |
|  | wire end ferrule                       | Stripping length             | nominal 10 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.25/12 HBL SV</a> |
|  | Cross-section for conductor connection | nominal                      | 0.34 mm <sup>2</sup>            |
|  | wire end ferrule                       | Stripping length             | nominal 10 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.34/12 TK SV</a>  |
|  | Cross-section for conductor connection | nominal                      | 0.5 mm <sup>2</sup>             |
|  | wire end ferrule                       | Stripping length             | nominal 12 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.5/16 OR SV</a>   |
|  |  | Stripping length             | nominal 10 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.5/10</a>         |
|  | Cross-section for conductor connection | nominal                      | 0.75 mm <sup>2</sup>            |
|  | wire end ferrule                       | Stripping length             | nominal 12 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.75/16 W SV</a>   |
|  |  | Stripping length             | nominal 10 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H0.75/10</a>        |
|  | Cross-section for conductor connection | nominal                      | 1                               |
|  | wire end ferrule                       | Stripping length             | nominal 12 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H1.0/16 GE SV</a>   |
|  |  | Stripping length             | nominal 10 mm                   |
|  |  | Recommended wire-end ferrule | <a href="#">H1.0/10</a>         |
| Cross-section for conductor connection | nominal                                | 1.5 mm <sup>2</sup>          |                                 |
| wire end ferrule                       | Stripping length                       | nominal 10 mm                |                                 |
|  | Recommended wire-end ferrule           | <a href="#">H1.5/10</a>      |                                 |

Reference text The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.

### Rated data acc. to IEC

|   |                        |   |                  |
|---|------------------------|---|------------------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 13.4 A           |
| Rated current, max. number of poles (Tu=20°C)                             | 10 A                   | Rated current, min. number of poles (Tu=40°C)                         | 12 A             |
| Rated current, max. number of poles (Tu=40°C)                             | 9 A                    | Rated voltage for surge voltage class / pollution degree II/2         | 320 V            |
| Rated voltage for surge voltage class / pollution degree III/2            | 160 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 160 V            |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV                 | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV           |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV                 | Short-time withstand current resistance                               | 3 x 1s with 80 A |

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## Technical data

### Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1121690

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 300 V  |
| Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group C / CSA) | 9.5 A  |
| Wire cross-section, AWG, min.     | AWG 30 |

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group C / CSA) | 50 V   |
| Rated current (Use group B / CSA) | 9.5 A  |
| Rated current (Use group D / CSA) | 9.5 A  |
| Wire cross-section, AWG, max.     | AWG 16 |

Reference to approval values

Specifications are maximum values, details - see approval certificate.

### Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

|                                       |        |
|---------------------------------------|--------|
| Rated voltage (Use group B / UL 1059) | 300 V  |
| Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group C / UL 1059) | 9.5 A  |
| Wire cross-section, AWG, min.         | AWG 30 |

|                                       |        |
|---------------------------------------|--------|
| Rated voltage (Use group C / UL 1059) | 50 V   |
| Rated current (Use group B / UL 1059) | 9.5 A  |
| Rated current (Use group D / UL 1059) | 9.5 A  |
| Wire cross-section, AWG, max.         | AWG 16 |

Reference to approval values

Specifications are maximum values, details - see approval certificate.

### Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 350 mm |
| VPE width | 135 mm | VPE height | 41 mm  |

### Type tests

|  |            |   |
|--|------------|---|
| Test: Durability of markings                 | Standard   | IEC 61984 section 6.2 and 7.3.2 / 10.11 taking pattern from IEC 60068-2-70 / 12.95                                    |
|  | Test       | mark of origin, type identification, pitch, type of material, date clock, approval marking UL, approval marking cULus |
|  | Evaluation | available   |
|  | Test       | durability  |
|  | Evaluation | passed  |
| Test: Misengagement (Non-interchangeability) | Standard   | IEC 61984 section 6.3 and 6.9.1 / 10.11, IEC 60512-13-5 / 02.06   |
|  | Test       | 180° turned without coding elements   |
|  | Evaluation | passed  |
|  | Test       | 180° turned with coding elements  |
|  | Evaluation | passed  |
|  | Test       | visual examination  |
|  | Evaluation | passed  |

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|   |                |  |                               |
|---|----------------|--|-------------------------------|
| Test: Clampable cross section                             | Standard       | IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11 |                               |
|   | Conductor type | Type of conductor and conductor cross-section                                | solid 0.14 mm <sup>2</sup>    |
|   |                | Type of conductor and conductor cross-section                                | stranded 0.14 mm <sup>2</sup> |
|   |                | Type of conductor and conductor cross-section                                | solid 1.5 mm <sup>2</sup>     |
|   |                | Type of conductor and conductor cross-section                                | stranded 1.5 mm <sup>2</sup>  |
|   |                | Type of conductor and conductor cross-section                                | AWG 26/1                      |
|   |                | Type of conductor and conductor cross-section                                | AWG 26/19                     |
|   |                | Type of conductor and conductor cross-section                                | AWG 16/1                      |
|   |                | Type of conductor and conductor cross-section                                | AWG 16/19                     |
| Evaluation  | passed         |  |                               |
| Test for damage to and accidental loosening of conductors | Standard       | IEC 60999-1 section 9.4 / 11.99  |                               |
|   | Requirement    | 0.2 kg   |                               |
|   | Conductor type | Type of conductor and conductor cross-section                                | AWG 26/1                      |
|   |                | Type of conductor and conductor cross-section                                | AWG 26/19                     |
|   | Evaluation     | passed   |                               |
|   | Requirement    | 0.3 kg   |                               |
|   | Conductor type | Type of conductor and conductor cross-section                                | H05V-U0.75                    |
|   |                | Type of conductor and conductor cross-section                                | H05V-K0.75                    |
|   | Evaluation     | passed   |                               |
|   | Requirement    | 0.4 kg   |                               |
|   | Conductor type | Type of conductor and conductor cross-section                                | H07V-U1.5                     |
|   |                | Type of conductor and conductor cross-section                                | H07V-K1.5                     |
| Type of conductor and conductor cross-section             |                | AWG 16/1   |                               |
| Type of conductor and conductor cross-section             |                | AWG 16/19  |                               |
| Evaluation  | passed         |  |                               |

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|               |                |   |            |  |
|---------------|----------------|---|------------|--|
| Pull-out test | Standard       | IEC 60999-1 section 9.5 / 11.99               |            |  |
|               | Requirement    | ≥10 N   |            |  |
|               | Conductor type | Type of conductor and conductor cross-section | AWG 26/1   |  |
|               |                | Type of conductor and conductor cross-section | AWG 26/19  |  |
|               | Evaluation     | passed  |            |  |
|               | Requirement    | ≥20 N   |            |  |
|               | Conductor type | Type of conductor and conductor cross-section | H05V-U0.75 |  |
|               |                | Type of conductor and conductor cross-section | H05V-K0.75 |  |
|               | Evaluation     | passed  |            |  |
|               | Requirement    | ≥40 N   |            |  |
|               | Conductor type | Type of conductor and conductor cross-section | H07V-U1.5  |  |
|               |                | Type of conductor and conductor cross-section | H07V-K1.5  |  |
|               |                | Type of conductor and conductor cross-section | AWG 16/1   |  |
|               |                | Type of conductor and conductor cross-section | AWG 16/19  |  |
|               | Evaluation     | passed  |            |  |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ECLASS 9.0  | 27-44-03-09 |
| ECLASS 9.1  | 27-44-03-09 | ECLASS 10.0 | 27-44-03-09 |
| ECLASS 11.0 | 27-46-02-02 | ECLASS 12.0 | 27-46-02-02 |

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# Technical data

### Important note

|                |  |
|----------------|--|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.   |
| Notes          | <ul style="list-style-type: none"> <li>• Additional variants on request</li> <li>• Gold-plated contact surfaces on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.</li> <li>• P on drawing = pitch</li> <li>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>• Max. outer diameter of the conductor 2.6 mm</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |

### Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E60693     |

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**Technical data****Downloads**

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>   |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| Product Change Notification                 | <a href="#">PCN_2017_088_PL30X_BL_35_Lock_Release_lever_EN</a><br><a href="#">PCN_2017_088_PL30X_PCN_BL_35_Loeseriegel_DE</a><br><a href="#">Change of Material LR 3.50 - DE</a><br><a href="#">Change of Material LR 3.50 - EN</a><br><a href="#">20210721 Technical change Redesign B2CF 3.50</a><br><a href="#">20210721 Technische Änderung Redesign zu B2CF 3.50</a><br><a href="#">20220530 Change of packaging OMNIMATE® Signal B2CF 3.50</a><br><a href="#">20220530 Verpackungsänderung OMNIMATE® Signal B2CF 3.50</a>   |
| User Documentation                          | <a href="#">Operating instruction</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |
| Brochures                                   | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FLIndustr.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL HEATING ELECTR EN</a><br><a href="#">FL APPL INVERTER EN</a><br><a href="#">FL_BASE_STATION_EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a><br><a href="#">PO OMNIMATE EN</a> |



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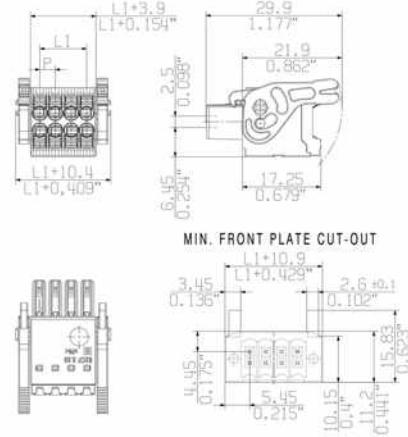
www.weidmueller.com

**Drawings**

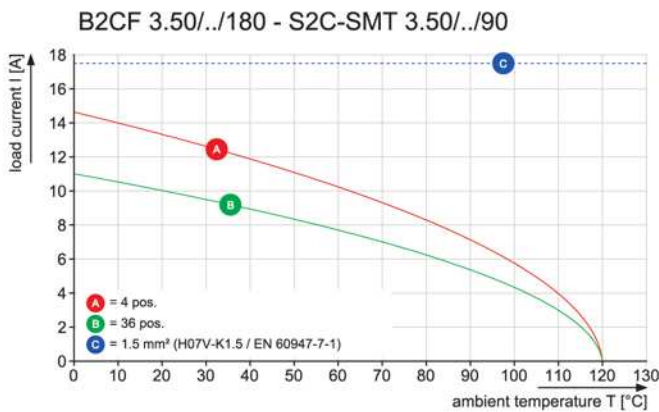
**Product image**



**Dimensional drawing**



**Graph**



**Product benefits**



Solid PUSH IN contact  
 Safe and durable

**Product benefits**



Large connection cross-section  
 Up to 1.5 mm possible with ease

**Product benefits**



Fast PUSH IN connection  
 Tool-free and touch-safe

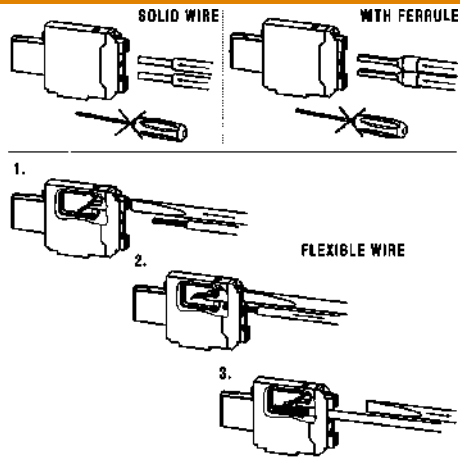
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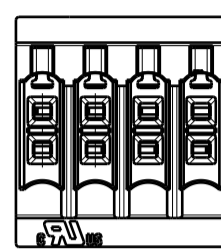
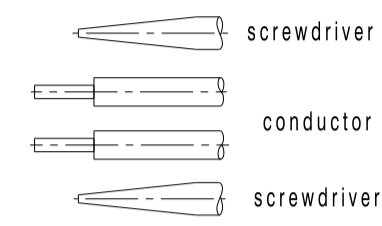
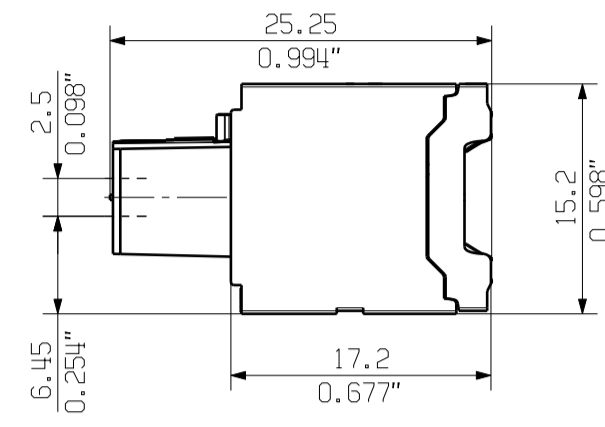
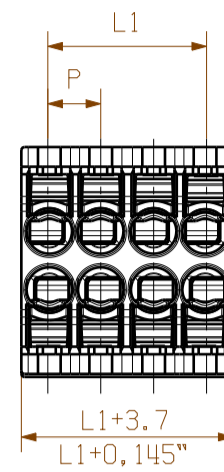
**Drawings**

**Example of use**



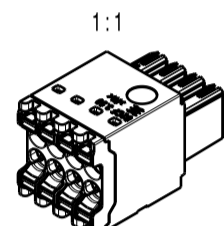
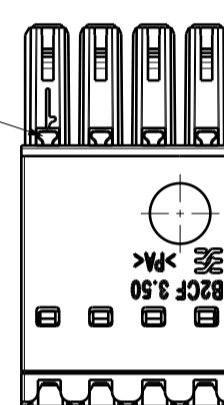
ALLGEMEINGÜLTIGE KUNDENZEICHUNG, AKTUELLER STAND NUR AUF ANFRAGE  
GENERAL CUSTOMER DRAWING, TOPICAL VERSION ONLY IF REQUIRED

B2CF 3.50/08/180

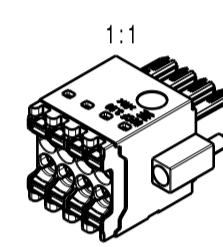
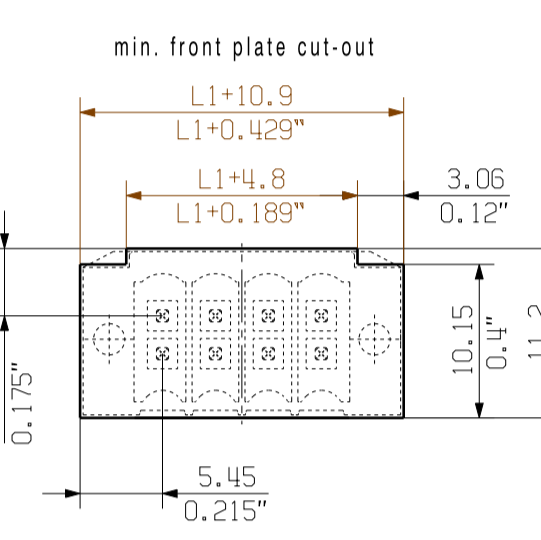
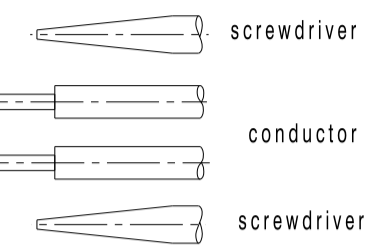
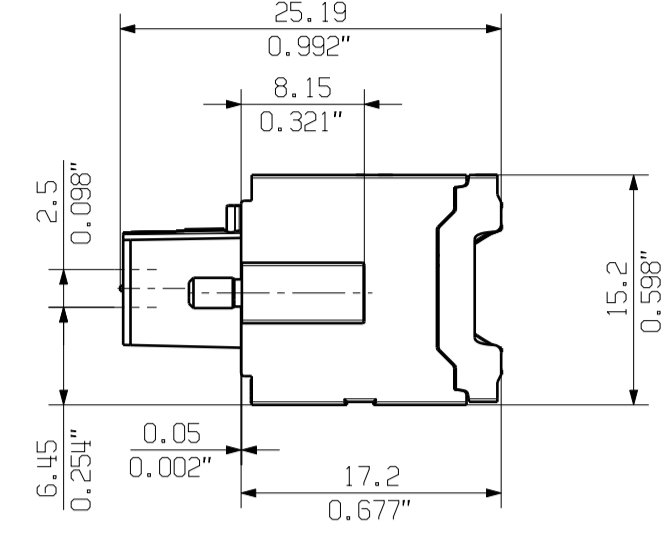
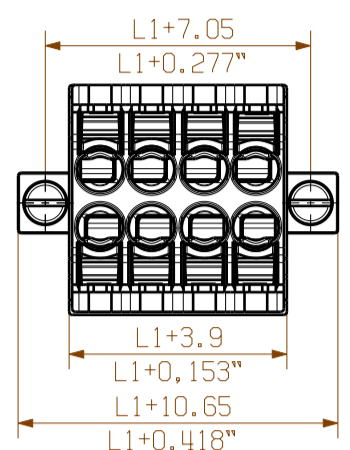


|    |   |   |   |   |  |  |  |  |  |   |   |  |  |  |  |   |   |   |  |  |  |  |
|----|---|---|---|---|--|--|--|--|--|---|---|--|--|--|--|---|---|---|--|--|--|--|
| 22 |   |   |   |   |  |  |  |  |  |   |   |  |  |  |  |   |   |   |  |  |  |  |
| 20 | X | X |   |   |  |  |  |  |  |   |   |  |  |  |  |   | X | X |  |  |  |  |
| 18 | X | X |   |   |  |  |  |  |  |   |   |  |  |  |  | X | X |   |  |  |  |  |
| 16 | X | X |   |   |  |  |  |  |  |   |   |  |  |  |  |   |   |   |  |  |  |  |
| 14 | X | X |   |   |  |  |  |  |  | X | X |  |  |  |  |   |   |   |  |  |  |  |
| 12 | X | X |   |   |  |  |  |  |  | X | X |  |  |  |  |   |   |   |  |  |  |  |
| 10 | X | X | X |   |  |  |  |  |  | X | X |  |  |  |  |   |   |   |  |  |  |  |
| 8  | X | X | X | X |  |  |  |  |  | X | X |  |  |  |  |   |   |   |  |  |  |  |
| 6  | X | X | X | X |  |  |  |  |  | X | X |  |  |  |  |   |   |   |  |  |  |  |
| 4  | X | X | X | X |  |  |  |  |  | X | X |  |  |  |  |   |   |   |  |  |  |  |

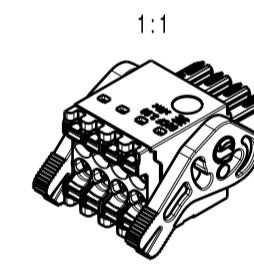
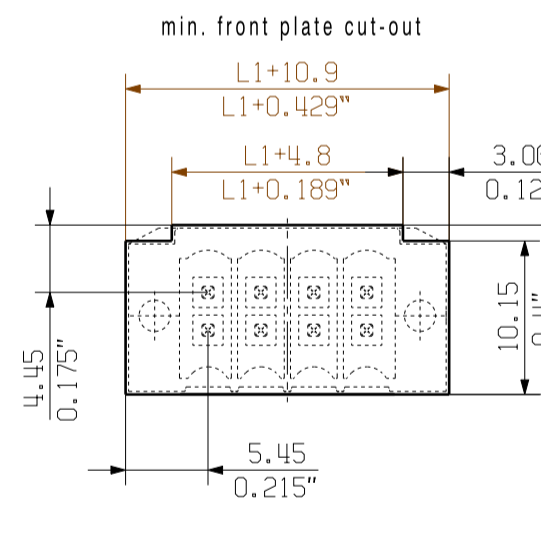
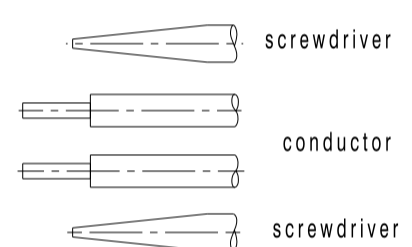
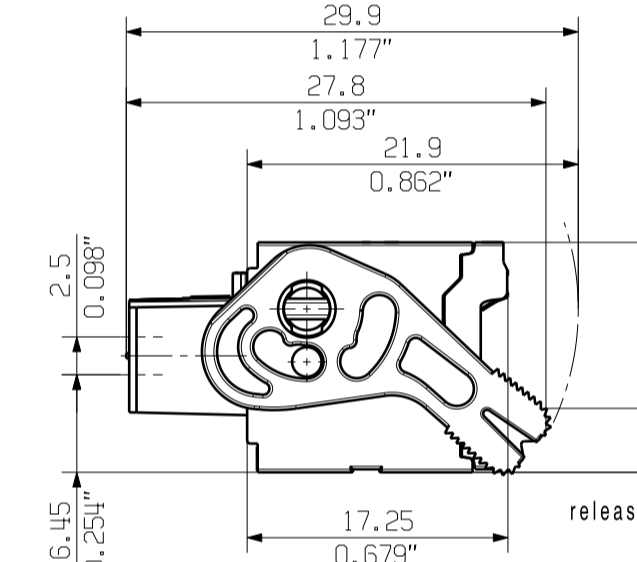
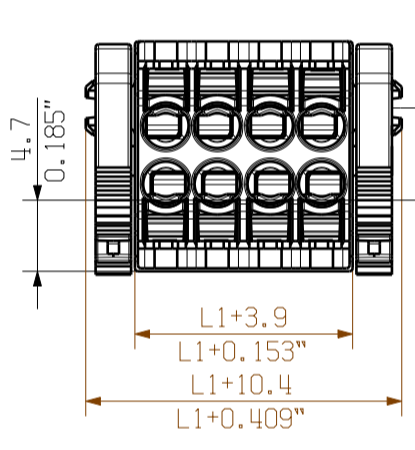
n POLZAHL POLES RASTHAKEN SNAP-FITS  
ACHTUNG: AB 22-polig ohne Rasthaken  
ATTENTION: housing with 22-36 poles without snap-fits



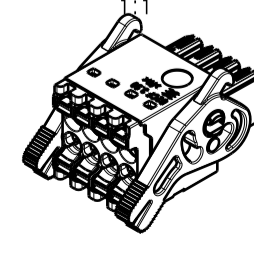
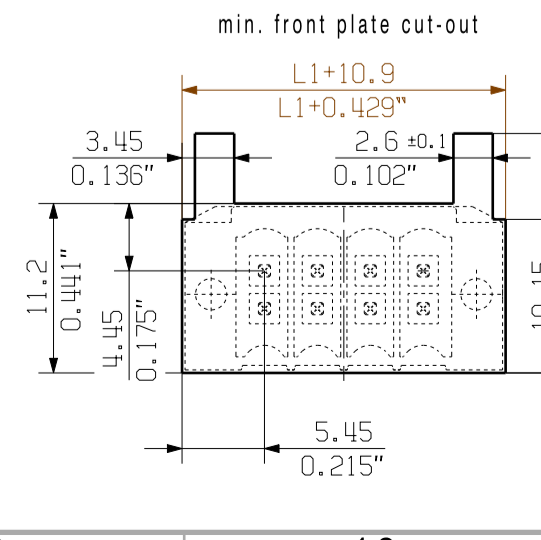
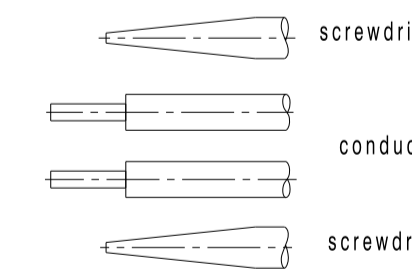
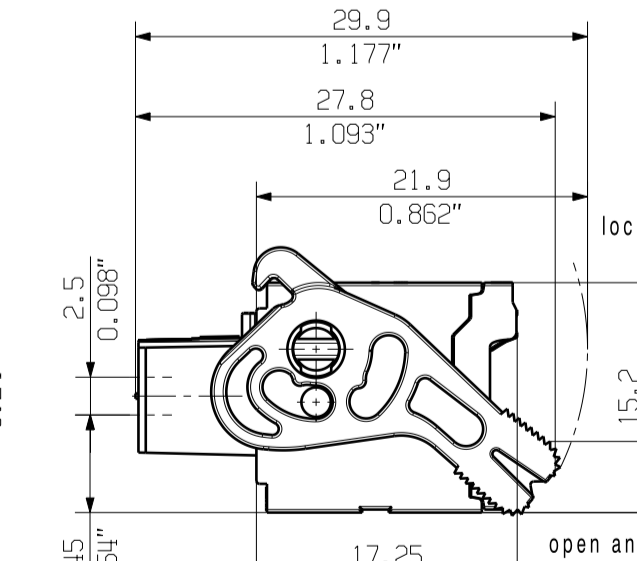
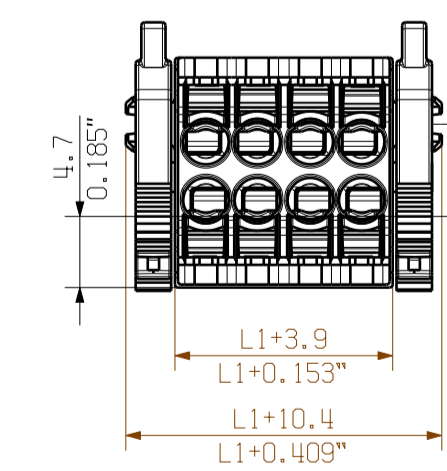
B2CF 3.50/08/180F



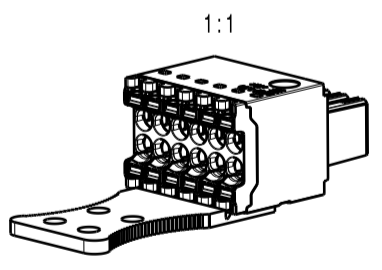
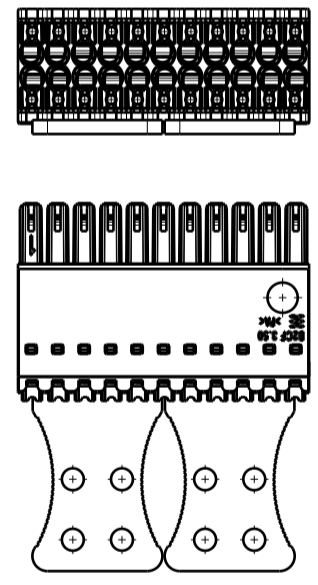
B2CF 3.50/08/180LH



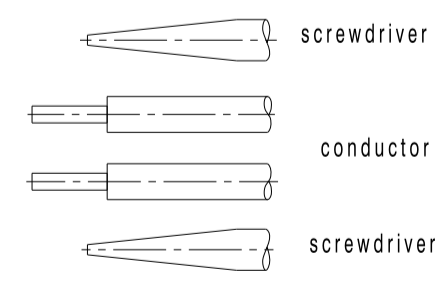
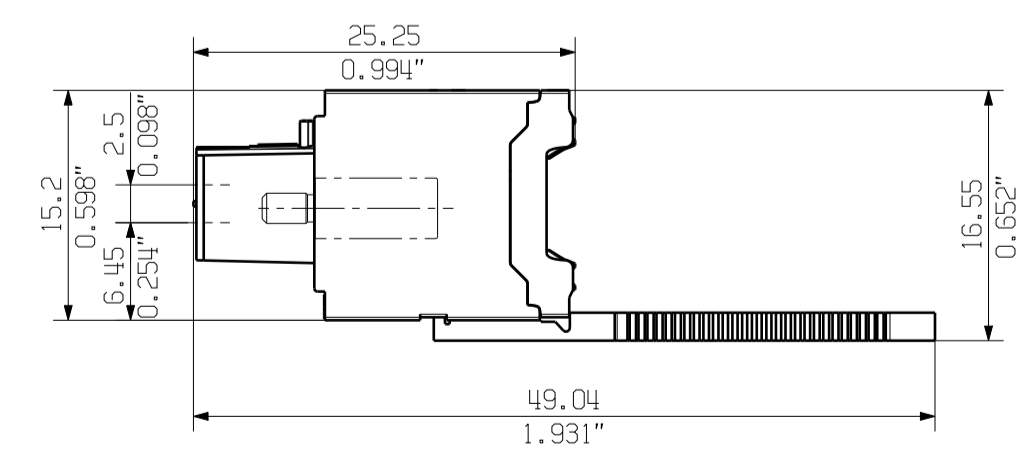
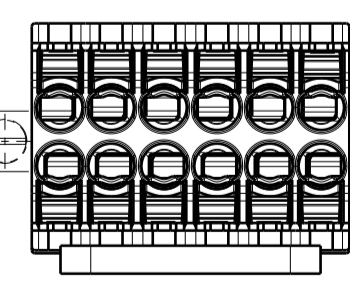
B2CF 3.50/08/180LR



Schematische Darstellung/  
schematic representation  
AB 22-polig mit 2 Zugentlastungen  
22-36 pole version with 2 strain reliefs



auch andere Flansche mit Zugentlastung möglich/  
other flange types with strain relief possible (F/LH/LR)



|    |      |       |
|----|------|-------|
| 46 | 76.8 | 3.033 |
| 44 | 73.3 | 2.895 |
| 42 | 69.8 | 2.757 |
| 40 | 66.3 | 2.619 |
| 38 | 62.8 | 2.481 |
| 36 | 59.3 | 2.343 |
| 34 | 56.0 | 2.205 |
| 32 | 52.5 | 2.067 |
| 30 | 49.0 | 1.929 |
| 28 | 45.5 | 1.791 |
| 26 | 42.0 | 1.654 |
| 24 | 38.5 | 1.516 |
| 22 | 35.0 | 1.378 |
| 20 | 31.5 | 1.240 |
| 18 | 28.0 | 1.102 |
| 16 | 24.5 | 0.965 |
| 14 | 21.0 | 0.827 |
| 12 | 17.5 | 0.689 |
| 10 | 14.0 | 0.551 |
| 8  | 10.5 | 0.413 |
| 6  | 7.00 | 0.276 |
| 4  | 3.50 | 0.138 |

p = 3.50 Raster/  
0.138" pitch  
n = Polzahl / no of poles  
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance with VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.  
Weidmüller connectors are tested to the DIN VDE 0827 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermal and corrosive stress will be satisfied.

|                     |                 |                      |
|---------------------|-----------------|----------------------|
| General Tolerances: | ISO 2768-mK     | Tolerances ISO 8015  |
| Changes:            | EC0009088       |                      |
| Mat. No. (SAP)      | 1277290000      |                      |
| Drawings Assembly   |                 | 73450                |
| Drawn               | Hella, Maria    | Scale: 2:1 Sheet 3/7 |
| Responsible         | Aporius, Stefan |                      |
| Approved            | Latz, Thomas    |                      |

16.03.2023

**W** Weidmüller **F** 73450

B2CF 3.50/./180  
FEMALE PLUG  
BUCHSENSTECKER

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