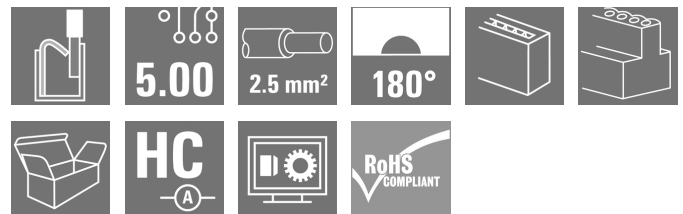


**BLF 5.00HC/12/180 SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current. In terms of versatility, the BLF 5.00HC offers just as much as the older versions:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user

**General ordering data**

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.00 mm, Number of poles: 12, 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm², Box |
| Order No.    | <a href="#">1017780000</a>                                                                                                          |
| Type         | BLF 5.00HC/12/180 SN BK BX                                                                                                          |
| GTIN (EAN)   | 4032248728749                                                                                                                       |
| Qty.         | 30 pc(s).                                                                                                                           |
| Product data | IEC: 400 V / 23 A / 0.2 - 2.5 mm²<br>UL: 300 V / 18.5 A / AWG 26 - AWG 12                                                           |
| Packaging    | Box                                                                                                                                 |

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

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 27.6 mm | Depth (inches)  | 1.087 inch |
| Height     | 14.2 mm | Height (inches) | 0.559 inch |
| Width      | 60 mm   | Width (inches)  | 2.362 inch |
| Net weight | 23.33 g |                 |            |

**System Parameters**

|                                              |                                     |                                            |                              |
|----------------------------------------------|-------------------------------------|--------------------------------------------|------------------------------|
| Product family                               | OMNIMATE Signal - series BL/SL 5.00 | Type of connection                         | Field connection             |
| Wire connection method                       | PUSH IN with actuator               | Pitch in mm (P)                            | 5 mm                         |
| Pitch in inches (P)                          | 0.197 "                             | Conductor outlet direction                 | 180°                         |
| Number of poles                              | 12                                  | L1 in mm                                   | 55 mm                        |
| L1 in inches                                 | 2.167 "                             | Number of rows                             | 1                            |
| Pin series quantity                          | 1                                   | Rated cross-section                        | 2.5 mm <sup>2</sup>          |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch        | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged |
| Protection degree                            | IP20                                | Volume resistance                          | ≤5 mΩ                        |
| Can be coded                                 | Yes                                 | Stripping length                           | 10 mm                        |
| Screwdriver blade                            | 0.6 x 3.5                           | Screwdriver blade standard                 | DIN 5264                     |
| Plugging cycles                              | 25                                  | Plugging force/pole, max.                  | 7 N                          |
| Pulling force/pole, max.                     | 5.5 N                               |                                            |                              |

**Material data**

|                                       |                            |                                       |        |
|---------------------------------------|----------------------------|---------------------------------------|--------|
| Insulating material                   | PBT                        | Colour                                | black  |
| Colour chart (similar)                | RAL 9011                   | Insulating material group             | IIIa   |
| Comparative Tracking Index (CTI)      | ≥ 200                      | UL 94 flammability rating             | V-0    |
| Contact material                      | Cu-alloy                   | Contact surface                       | tinned |
| Layer structure of plug contact       | 4...8 µm Sn hot-dip tinned | Storage temperature, min.             | -40 °C |
| Storage temperature, max.             | 70 °C                      | Operating temperature, min.           | -50 °C |
| Operating temperature, max.           | 100 °C                     | Temperature range, installation, min. | -30 °C |
| Temperature range, installation, max. | 100 °C                     |                                       |        |

**Conductors suitable for connection**

|                                                                     |                      |
|---------------------------------------------------------------------|----------------------|
| Clamping range, min.                                                | 0.13 mm <sup>2</sup> |
| Clamping range, max.                                                | 3.31 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                             | AWG 26               |
| Wire connection cross section AWG, max.                             | AWG 12               |
| Solid, min. H05(07) V-U                                             | 0.2 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U                                             | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                                          | 0.2 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K                                          | 2.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max. |                      |
| w. wire end ferrule, DIN 46228 pt 1, min.                           | 0.25 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, max.                           | 2.5 mm <sup>2</sup>  |
| Plug gauge in accordance with EN 60999 a x b; ø                     | 2.8 mm x 2.0 mm      |

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## Technical data

|                     |                                                                                                                                                                        |                              |                            |       |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|-------|
| Clampable conductor | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                 |       |
|                     |                                                                                                                                                                        | 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</a> |       |
|                     |                                                                                                                                                                        | Stripping length             | nominal                    | 10 mm |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.5/10</a>    |       |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                 |       |
|                     |                                                                                                                                                                        | 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</a> |       |
|                     |                                                                                                                                                                        | Stripping length             | nominal                    | 10 mm |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.75/10</a>   |       |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                 |       |
|                     |                                                                                                                                                                        | nominal                      | 1 mm <sup>2</sup>          |       |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                    | 12 mm |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.0/16D R</a> |       |
|                     |                                                                                                                                                                        | Stripping length             | nominal                    | 10 mm |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.0/10</a>    |       |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                 |       |
|                     |                                                                                                                                                                        | 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>    |       |
|                     |                                                                                                                                                                        | Stripping length             | nominal                    | 12 mm |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.5/16 R</a>  |       |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                 |       |
|                     |                                                                                                                                                                        | nominal                      | 2.5 mm <sup>2</sup>        |       |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                    | 10 mm |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H2.5/10</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)                         | 23 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 18 A                   | Rated current, min. number of poles (Tu=40°C)                         | 21 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 16 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 400 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 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 current (Use group B / CSA) | 10 A                                                                   |
| Wire cross-section, AWG, min.     | AWG 12                                                                 |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate. |

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, max.     | AWG 26 |

**Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / UL 1059) | 300 V                                                                  |
| Rated current (Use group B / UL 1059) | 18.5 A                                                                 |
| Wire cross-section, AWG, min.         | AWG 26                                                                 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |

|                                       |        |
|---------------------------------------|--------|
| Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, max.         | AWG 12 |

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 351 mm |
| VPE width | 134 mm | VPE height | 38 mm  |

**Type tests**

|                                              |            |                                                                                    |
|----------------------------------------------|------------|------------------------------------------------------------------------------------|
| Test: Durability of markings                 | Standard   | IEC 61984 section 6.2 and 7.3.2 / 10.08 taking pattern from IEC 60068-2-70 / 12.95 |
|                                              | Test       | mark of origin, type identification, pitch, type of material, date clock           |
|                                              | Evaluation | available                                                                          |
|                                              | Test       | durability                                                                         |
|                                              | Evaluation | passed                                                                             |
| Test: Misengagement (Non-interchangeability) | Standard   | IEC 61984 section 6.3 and 6.9.1 / 10.08, IEC 60512-13-5 / 02.06                    |
|                                              | Test       | 180° turned with coding elements                                                   |
|                                              | Evaluation | passed                                                                             |
|                                              | Test       | visual examination                                                                 |
|                                              | Evaluation | passed                                                                             |

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**Technical data**

|                                                           |                |                                                                              |  |
|-----------------------------------------------------------|----------------|------------------------------------------------------------------------------|--|
| Test: Clampable cross section                             | Standard       | IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 06.07 |  |
|                                                           | Conductor type | Type of conductor and solid 0.2 mm <sup>2</sup> conductor cross-section      |  |
|                                                           |                | Type of conductor and stranded 0.2 mm <sup>2</sup> conductor cross-section   |  |
|                                                           |                | Type of conductor and solid 2.5 mm <sup>2</sup> conductor cross-section      |  |
|                                                           |                | Type of conductor and stranded 2.5 mm <sup>2</sup> conductor cross-section   |  |
|                                                           |                | Type of conductor and AWG 26/1 conductor cross-section                       |  |
|                                                           |                | Type of conductor and AWG 26/19 conductor cross-section                      |  |
|                                                           |                | Type of conductor and AWG 14/1 conductor cross-section                       |  |
|                                                           |                | Type of conductor and AWG 14/19 conductor cross-section                      |  |
|                                                           | 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 AWG 26/1 conductor cross-section                       |  |
|                                                           |                | Type of conductor and AWG 26/19 conductor cross-section                      |  |
|                                                           | Evaluation     | passed                                                                       |  |
|                                                           | Requirement    | 0.3 kg                                                                       |  |
|                                                           | Conductor type | Type of conductor and H05V-U0.5 conductor cross-section                      |  |
|                                                           |                | Type of conductor and H05V-K0.5 conductor cross-section                      |  |
|                                                           | Evaluation     | passed                                                                       |  |
|                                                           | Requirement    | 0.7 kg                                                                       |  |
|                                                           | Conductor type | Type of conductor and H07V-U2.5 conductor cross-section                      |  |
|                                                           |                | Type of conductor and H07V-K2.5 conductor cross-section                      |  |
|                                                           |                | Type of conductor and AWG 14/1 conductor cross-section                       |  |
|                                                           |                | Type of conductor and AWG 14/19 conductor cross-section                      |  |
|                                                           | Evaluation     | passed                                                                       |  |

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**Technical data**

|               |                |                                                         |
|---------------|----------------|---------------------------------------------------------|
| Pull-out test | Standard       | IEC 60999-1 section 9.5 / 11.99                         |
|               | Requirement    | ≥10 N                                                   |
|               | Conductor type | Type of conductor and AWG 26/1 conductor cross-section  |
|               |                | Type of conductor and AWG 26/19 conductor cross-section |
|               | Evaluation     | passed                                                  |
|               | Requirement    | ≥20 N                                                   |
|               | Conductor type | Type of conductor and H05V-U0.5 conductor cross-section |
|               |                | Type of conductor and H05V-K0.5 conductor cross-section |
|               | Evaluation     | passed                                                  |
|               | Requirement    | ≥50 N                                                   |
|               | Conductor type | Type of conductor and H07V-U2.5 conductor cross-section |
|               |                | Type of conductor and H07V-K2.5 conductor cross-section |
|               |                | Type of conductor and AWG 14/1 conductor cross-section  |
|               |                | Type of conductor and AWG 14/19 conductor cross-section |
|               | Evaluation     | passed                                                  |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ETIM 9.0    | EC002638    |
| ETIM 10.0   | 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 |
| ECLASS 13.0 | 27-46-02-02 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 |             |             |

**Environmental Product Compliance**

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

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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>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</li> <li>• Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.</li> <li>• The test point can only be used as potential-pickup point.</li> <li>• In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

**Approvals**

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (cURus) | E60693                                                                                                                                                                                                                                                                                                                                                  |

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# Technical data

## Downloads

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Con-<br>formity | <a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Engineering Data                                 | <a href="#">CAD data – STEP</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="#">FL INDUSTR.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> |



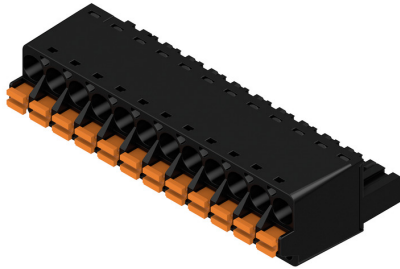
## BLF 5.00HC/12/180 SN BK BX

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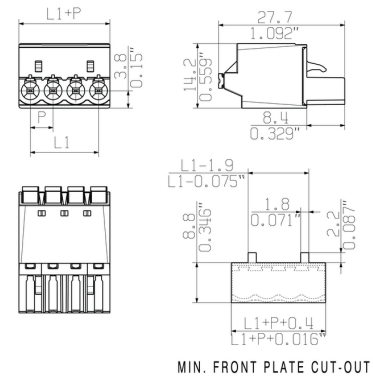
www.weidmueller.com

## Drawings

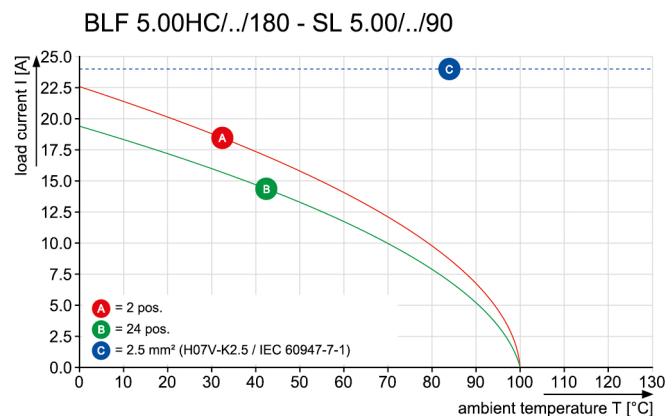
### Product image



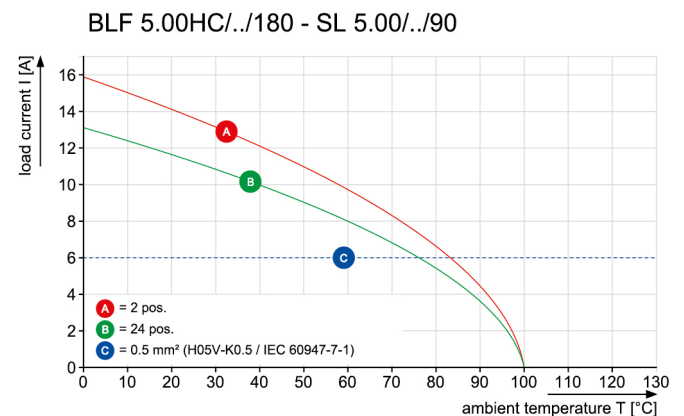
### Dimensional drawing



### Graph



### Graph



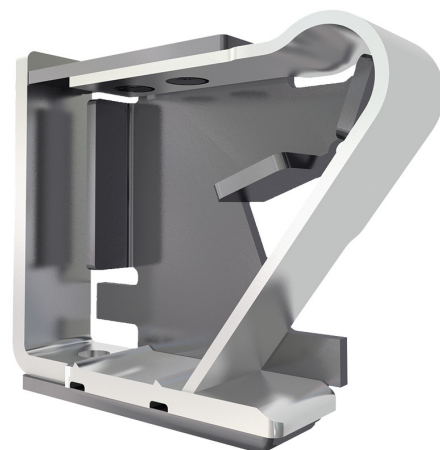
Uncompromising functionality  
High vibration resistance

### Product benefits



Uncompromising functionality  
High vibration resistance

### Product benefits



Solid PUSH IN contact  
Safe and durable

### BLF 5.00HC/12/180 SN BK BX

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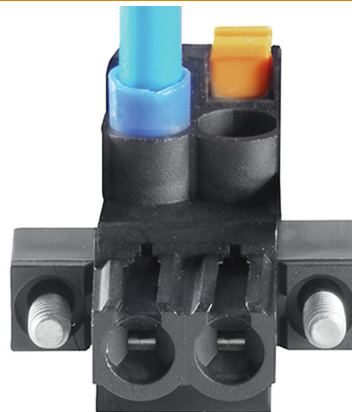
## Drawings

### Product benefits



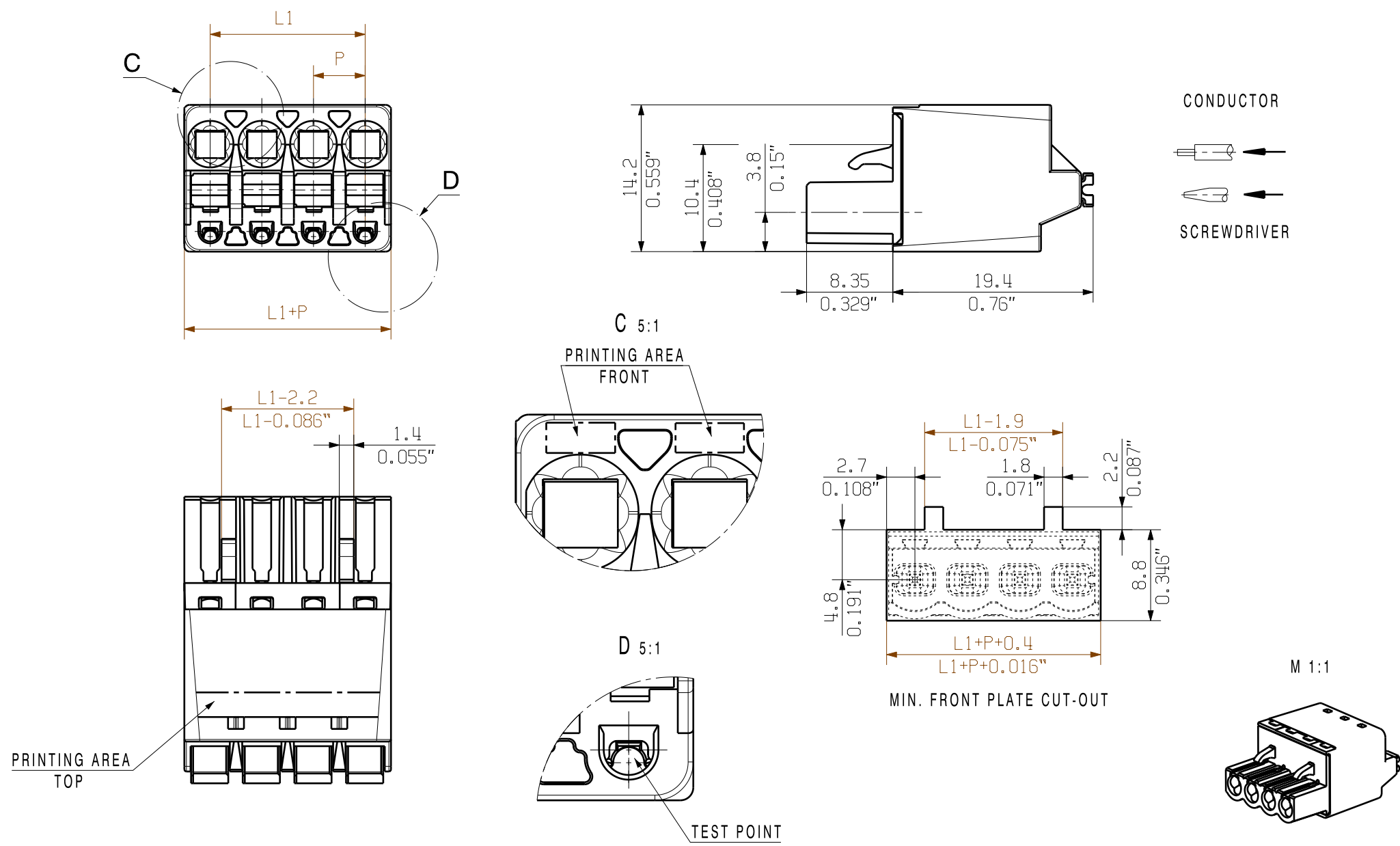
Cost-effective wiring  
Quick and intuitive operation

### Product benefits

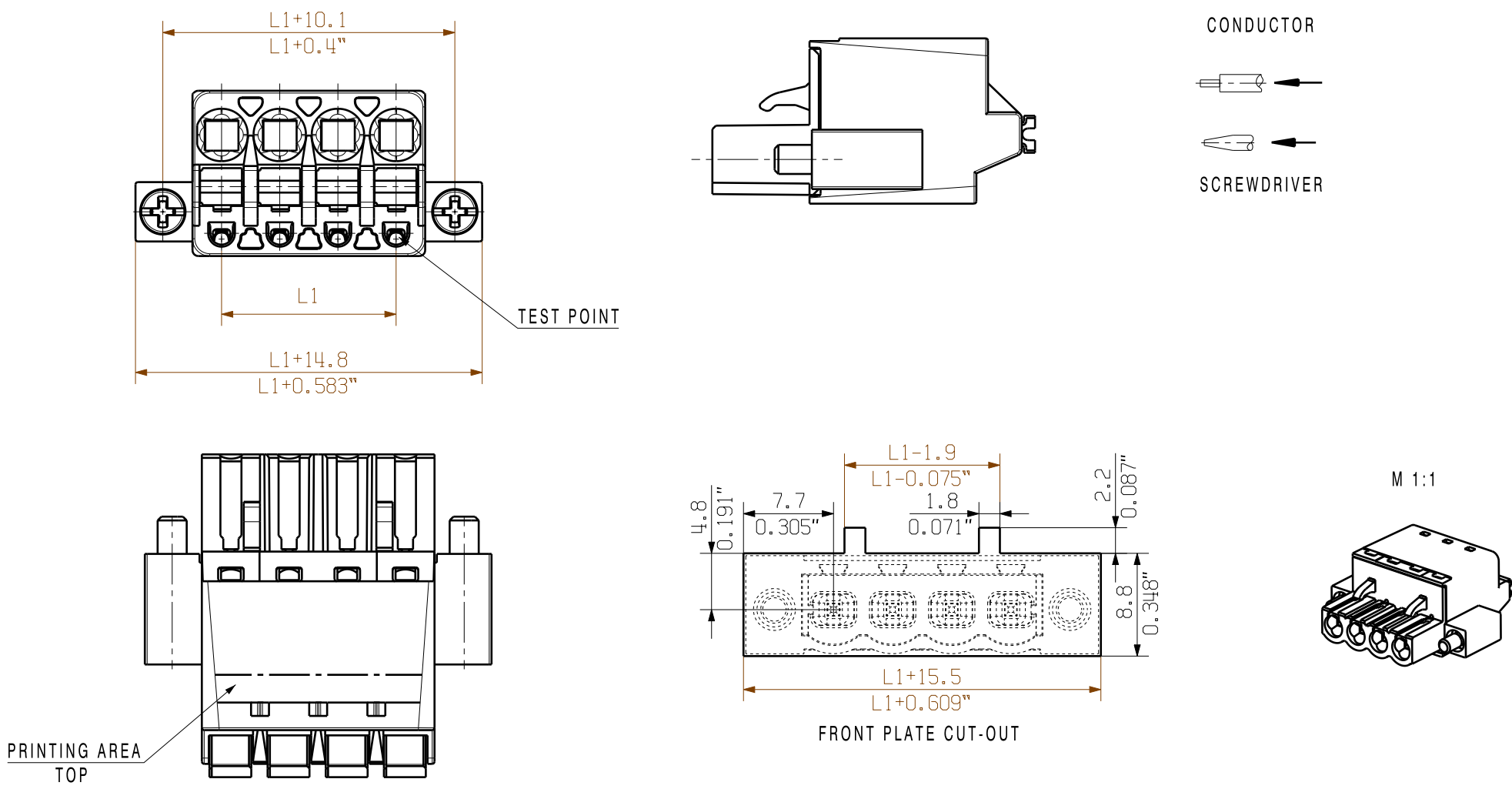


Wide clamping range  
Tool-free wire connection

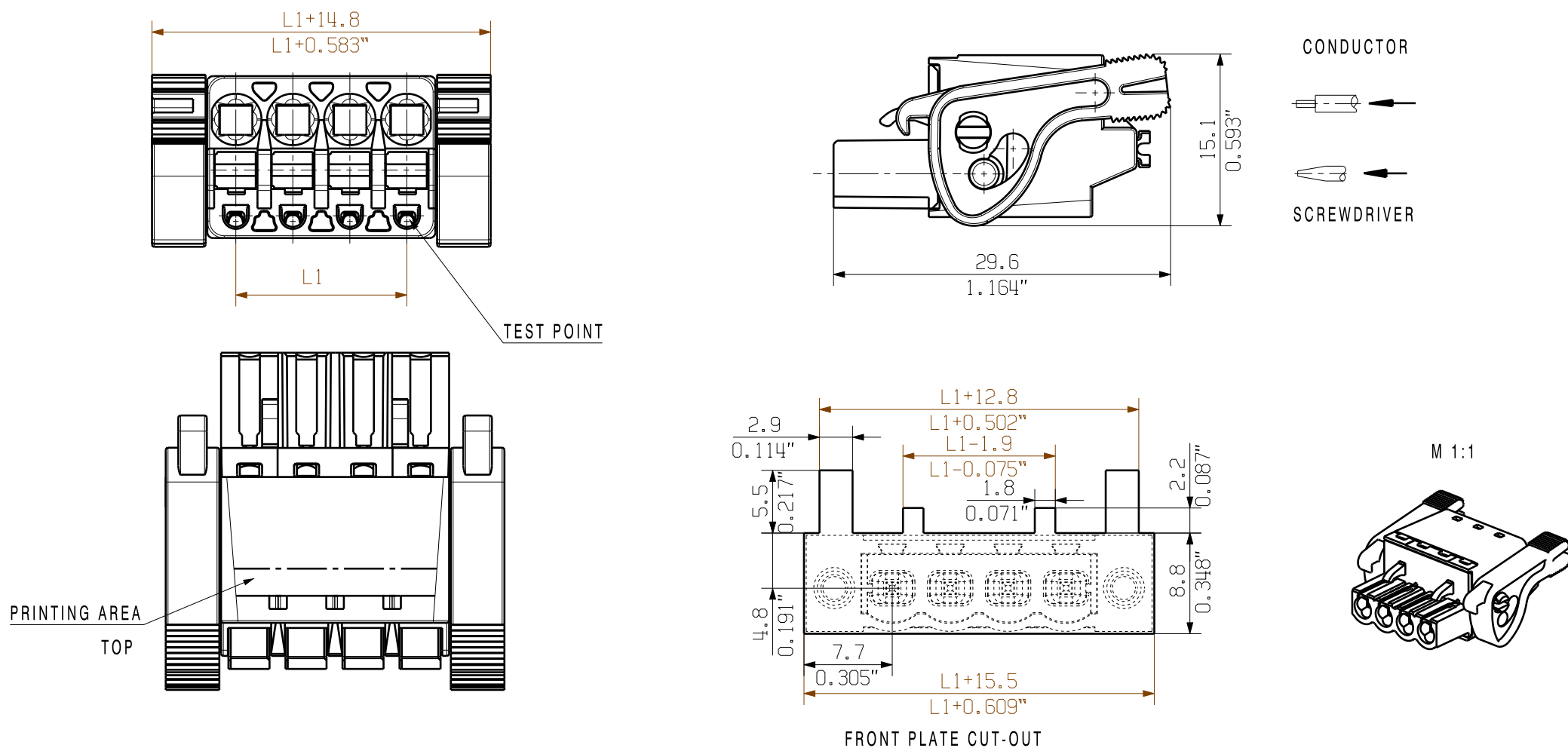
SHOWN: BLF 5.00HC/04/180



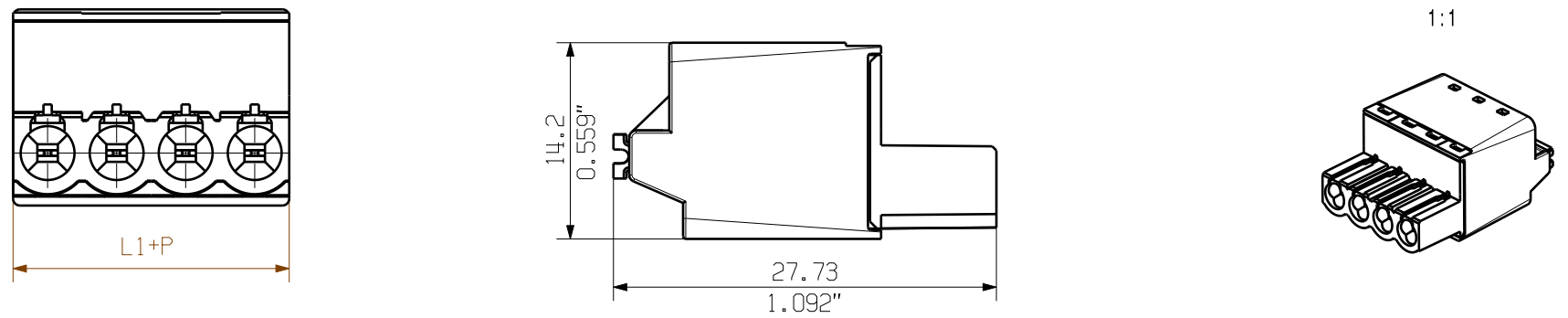
SHOWN: BLF 5.00HC/04/180F



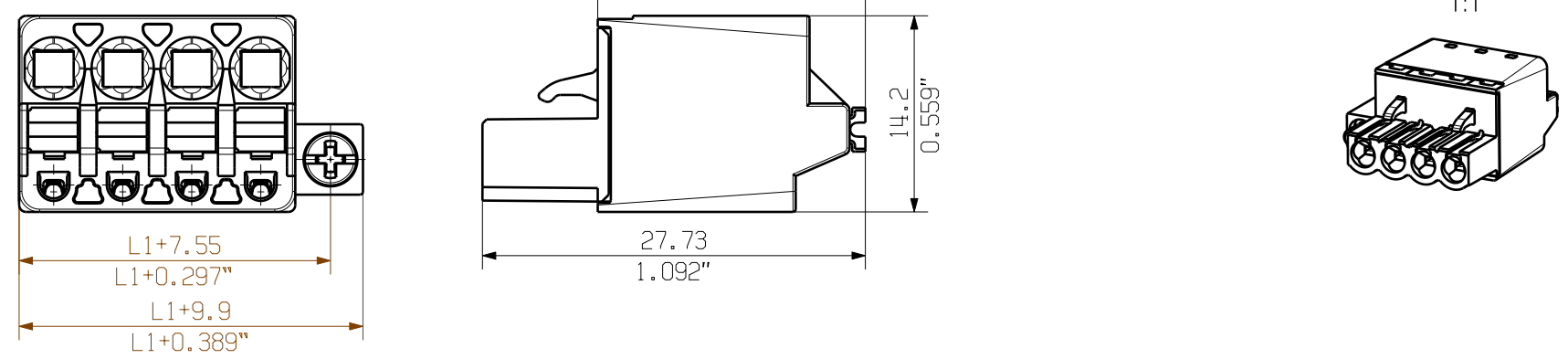
SHOWN: BLF 5.00HC/04/180LR



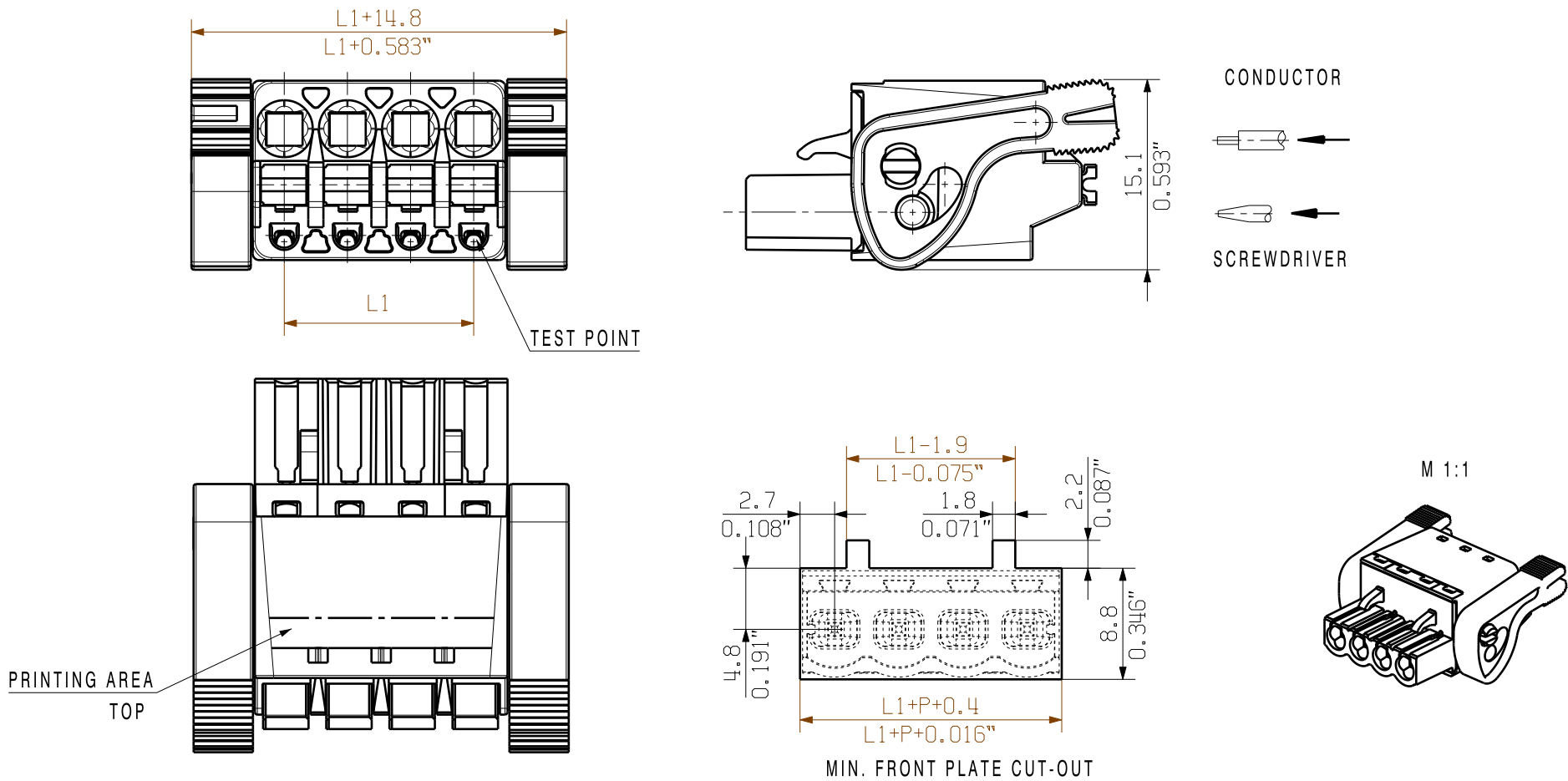
SONDERVARIANTE OHNE RASTHAKEN /  
SPECIAL VERSION WITHOUT SNAP LATCH



BLF 5.00HC/04/180F SQ  
SONDERVARIANTE / EINSEITIGER FLANSCH  
SPECIAL VERSION ONESIDED FLANSH



SHOWN: BLF 5.00HC/04/180LH



P = 5.08 RASTER/PITCH  
n = POLZAHL/NO OF POLES

|                                       |  |                        |  |
|---------------------------------------|--|------------------------|--|
| General tolerance:<br>DIN ISO 2768-mK |  | Cat.no.:<br>1 43920 07 |  |
| 99266/0<br>14.02.16 HERTEL_S          |  | 01                     |  |
| Modification                          |  | Name                   |  |
| Date                                  |  | Name                   |  |
| Drawn                                 |  | HECKERT_M              |  |
| Responsible                           |  | HERTEL_S               |  |
| Checked                               |  | 26.02.2018 HELIS_MA    |  |
| Approved                              |  | LANG_T                 |  |
| Scale: 2/1                            |  | Product file: BLF 5.00 |  |
| Supersedes: .                         |  | 7379                   |  |

|    |         |           |
|----|---------|-----------|
| 24 | 115     | 4.527     |
| 23 | 110     | 4.330     |
| 22 | 105     | 4.130     |
| 21 | 100     | 3.930     |
| 20 | 95      | 3.740     |
| 19 | 90      | 3.543     |
| 18 | 85      | 3.349     |
| 17 | 80      | 3.152     |
| 16 | 75      | 2.955     |
| 15 | 70      | 2.758     |
| 14 | 65      | 2.561     |
| 13 | 60      | 2.364     |
| 12 | 55      | 2.167     |
| 11 | 50      | 1.970     |
| 10 | 45      | 1.773     |
| 9  | 40      | 1.576     |
| 8  | 35      | 1.379     |
| 7  | 30      | 1.182     |
| 6  | 25      | 0.985     |
| 5  | 20      | 0.788     |
| 4  | 15      | 0.591     |
| 3  | 10      | 0.394     |
| 2  | 5       | 0.197     |
| n  | L1 [mm] | L1 [Inch] |