

**APGTB 2.5 2T 4C/2 BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****Spring connection with PUSH IN Technology**

The innovative PUSH IN technology reduces the amount of time you spend on wiring to a minimum. Direct insertion guarantees high conductor pull-out forces and simple handling for all conductor types.

**General ordering data**

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| Version    | Feed-through terminal, PUSH IN, 2.5 mm <sup>2</sup> , 800 V, 24 A, blue |
| Order No.  | <a href="#">1548070000</a>                                              |
| Type       | APGTB 2.5 2T 4C/2 BL                                                    |
| GTIN (EAN) | 4050118353815                                                           |
| Qty.       | 50 pc(s).                                                               |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 50.5 mm    | Depth (inches) | 1.988 inch |
| Depth including DIN rail | 51 mm      | Height         | 91 mm      |
| Height (inches)          | 3.583 inch | Net weight     | 12.02 g    |
| Width                    | 5.1 mm     | Width (inches) | 0.201 inch |

## Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -60 °C |
| Continuous operating temp., max. | 130 °C         |                                  |        |

## Material data

|                           |       |        |      |
|---------------------------|-------|--------|------|
| Material                  | Wemid | Colour | blue |
| UL 94 flammability rating | V-0   |        |      |

## Rating data IECEx/ATEX

|                                |                     |                                 |                     |
|--------------------------------|---------------------|---------------------------------|---------------------|
| Certificate No. (ATEX)         | TUEV16ATEX7940U     | Certificate No. (IECEX)         | IECEXTUR16.0046U    |
| Max. voltage (ATEX)            | 800 V               | Current (ATEX)                  | 20 A                |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup> | Max. voltage (IECEX)            | 800 V               |
| Current (IECEX)                | 20 A                | Wire cross section max. (IECEX) | 2.5 mm <sup>2</sup> |
| Marking EN 60079-7             | Ex ec II C Gc       | Ex 2014/34/EU label             | II 3 G D            |

## System specifications

|                               |     |                                     |       |
|-------------------------------|-----|-------------------------------------|-------|
| End cover plate required      | Yes | Number of potentials                | 2     |
| Number of levels              | 2   | Number of clamping points per level | 2     |
| Number of potentials per tier | 1   | Levels cross-connected internally   | No    |
| PE connection                 | No  | Rail                                | TS 35 |
| N-function                    | No  | PE function                         | No    |
| PEN function                  | No  |                                     |       |

## Additional technical data

|                     |       |                   |         |
|---------------------|-------|-------------------|---------|
| Installation advice | Rail  | Open sides        | right   |
| Snap-on             | No    | Type of fixing    | Snap-on |
| Type of mounting    | TS 35 | With snap-in pegs | No      |

## CSA rating data

|                               |                 |                               |        |
|-------------------------------|-----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-70089609 | Current size B (CSA)          | 20 A   |
| Current size C (CSA)          | 20 A            | Current size D (CSA)          | 5 A    |
| Voltage size B (CSA)          | 600 V           | Voltage size C (CSA)          | 600 V  |
| Voltage size D (CSA)          | 600 V           | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 28 AWG          |                               |        |

## Conductors for clamping (rated connection)

|                                          |                      |
|------------------------------------------|----------------------|
| Blade size                               | 0.6 x 3.5 mm         |
| Clamping range, max.                     | 2.5 mm <sup>2</sup>  |
| Clamping range, min.                     | 0.14 mm <sup>2</sup> |
| Connection cross-section, stranded, max. | 2.5 mm <sup>2</sup>  |
| Connection cross-section, stranded, min. | 0.5 mm <sup>2</sup>  |
| Connection direction                     | top                  |

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## Technical data

|                                                                                         |                                        |         |                      |
|-----------------------------------------------------------------------------------------|----------------------------------------|---------|----------------------|
| Gauge to IEC 60947-1                                                                    | A3                                     |         |                      |
| Number of connections                                                                   | 4                                      |         |                      |
| Stripping length                                                                        | 10 mm                                  |         |                      |
| Tube length for AEH with plastic collar<br>DIN 46228/4                                  | Cross-section for conductor connection | min.    | 0.34 mm <sup>2</sup> |
|                                                                                         |                                        | max.    | 0.14 mm <sup>2</sup> |
|                                                                                         | Tube length                            | min.    | 8 mm                 |
|                                                                                         |                                        | max.    | 6 mm                 |
|                                                                                         | Cross-section for conductor connection | min.    | 1 mm <sup>2</sup>    |
|                                                                                         |                                        | max.    | 0.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.    | 12 mm                |
|                                                                                         |                                        | max.    | 6 mm                 |
|                                                                                         | Cross-section for conductor connection | min.    | 2.5 mm <sup>2</sup>  |
|                                                                                         |                                        | max.    | 1.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.    | 12 mm                |
|                                                                                         |                                        | max.    | 8 mm                 |
| Tube length for AEH without plastic<br>collar DIN 46228/1                               | Tube length                            | nominal | 5 mm                 |
|                                                                                         | Cross-section for conductor connection | nominal | 0.25 mm <sup>2</sup> |
|                                                                                         | Tube length                            | min.    | 6 mm                 |
|                                                                                         |                                        | max.    | 10 mm                |
|                                                                                         | Cross-section for conductor connection | min.    | 0.5 mm <sup>2</sup>  |
|                                                                                         |                                        | max.    | 1 mm <sup>2</sup>    |
|                                                                                         | Tube length                            | min.    | 7 mm                 |
|                                                                                         |                                        | max.    | 12 mm                |
|                                                                                         | Cross-section for conductor connection | min.    | 1.5 mm <sup>2</sup>  |
|                                                                                         |                                        | max.    | 2.5 mm <sup>2</sup>  |
| Tube length for twin wire-end ferrule                                                   | Tube length                            | min.    | 8 mm                 |
|                                                                                         |                                        | max.    | 12 mm                |
|                                                                                         | Cross-section for conductor connection | min.    | 0.5 mm <sup>2</sup>  |
|                                                                                         |                                        | max.    | 0.75 mm <sup>2</sup> |
| Twin wire-end ferrules, max.                                                            | 0.75 mm <sup>2</sup>                   |         |                      |
| Twin wire-end ferrules, min.                                                            | 0.5 mm <sup>2</sup>                    |         |                      |
| Type of connection                                                                      | PUSH IN                                |         |                      |
| Type of connection 2                                                                    | Plug-in connection                     |         |                      |
| Wire connection cross section AWG, max.                                                 | AWG 12                                 |         |                      |
| Wire connection cross section AWG, min.                                                 | AWG 28                                 |         |                      |
| Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, solid core, max.                                         | 2.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, solid core, min.                                         | 0.5 mm <sup>2</sup>                    |         |                      |

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## Technical data

## General

|                                         |                          |                                         |        |
|-----------------------------------------|--------------------------|-----------------------------------------|--------|
| Installation advice                     | Rail                     | Rail                                    | TS 35  |
| Standards                               | IEC 60947-7-1, IEC 61984 | Wire connection cross section AWG, max. | AWG 12 |
| Wire connection cross section AWG, min. | AWG 28                   |                                         |        |

## PE rating data

|              |    |
|--------------|----|
| PEN function | No |
|--------------|----|

## Rating data

|                                              |         |                                 |                          |
|----------------------------------------------|---------|---------------------------------|--------------------------|
| Power loss in accordance with IEC 60947-7-x  | 0.77 W  | Rated cross-section             | 2.5 mm <sup>2</sup>      |
| Rated voltage                                | 800 V   | Rated current                   | 24 A                     |
| Current at maximum wires                     | 24 A    | Standards                       | IEC 60947-7-1, IEC 61984 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Rated impulse withstand voltage | 8 kV                     |
| Pollution severity                           | 3       | Surge voltage category          | III                      |

## UL rating data

|                                            |        |                                            |        |
|--------------------------------------------|--------|--------------------------------------------|--------|
| Certificate No. (cURus)                    | E60693 | Conductor size Factory wiring max. (cURus) | 12 AWG |
| Conductor size Factory wiring min. (cURus) | 28 AWG | Conductor size Field wiring max. (cURus)   | 12 AWG |
| Conductor size Field wiring min. (cURus)   | 28 AWG | Current size B (cURus)                     | 20 A   |
| Current size C (cURus)                     | 20 A   | Current size D (cURus)                     | 5 A    |
| Voltage size B (cURus)                     | 600 V  | Voltage size C (cURus)                     | 600 V  |
| Voltage size D (cURus)                     | 600 V  |                                            |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ECLASS 9.0  | 27-14-11-20 | ECLASS 9.1  | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

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|                                             |                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">IECEX TUR 16.0046U_2.pdf</a><br><a href="#">ATEX Certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">MARITREG certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                                                                                                                                   |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                               |
| Tender specification                        | <a href="#">Klippon® Connect 1548070000 DE</a><br><a href="#">Klippon® Connect 1548070000 EN</a>                                                                                                                                                                                                                                       |
| User Documentation                          | <a href="#">NTI_Ex nA APTB 2.5 2T 4C_2.pdf</a><br><a href="#">Usage of terminals in EXi atmospheres</a><br><a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                             |

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## Drawings

