

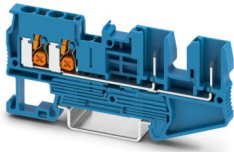
# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 4, number of positions: 1, connection method: Push-X-connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

## Your advantages

- The CLIPLINE complete COMBI terminal block ensures greater efficiency in control cabinet building through cable assemblies
- In addition to the classic features of the CLIPLINE complete system, the XT-COMBI terminal blocks are characterized by the modern XT connection technology and the option of plug-in capability
- The XT connection technology enables conductors to be connected directly and without tools, even without the addition of ferrules
- The COMBI plug-in zone is universal; all existing COMBI connectors can be used to establish a connection with it

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1544645       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE2541        |
| Product key                          | BE2541        |
| GTIN                                 | 4067923018129 |
| Weight per piece (including packing) | 9,98 g        |
| Weight per piece (excluding packing) | 9,98 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

## Technical data

### Notes

|         |                                                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | The max. load current must not be exceeded by the total current of all connected conductors.<br>Current and voltage are determined by the plug used. |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|

### General

|      |                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------|
| Note | Current and voltage are determined by the plug used                                                                                   |
|      | With a free-hanging connection, an insulating foil has to be placed between the plug connection and electrically conductive surfaces. |
|      | Nominal current and maximum load current see derating curve.                                                                          |

### Product properties

|                       |                        |
|-----------------------|------------------------|
| Product type          | Plug-in terminal block |
| Product family        | XT                     |
| Area of application   | Railway industry       |
|                       | Machine building       |
|                       | Plant engineering      |
| Number of positions   | 1                      |
| Number of connections | 4                      |
| Number of rows        | 1                      |
| Potentials            | 1                      |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                                                   |                                   |
|-------------------------------------------------------------------|-----------------------------------|
| Number of connections per level                                   | 4                                 |
| Nominal cross section                                             | 2.5 mm²                           |
| Connection method                                                 | Push-X-connection                 |
| Stripping length                                                  | 10 mm ... 12 mm                   |
| Internal cylindrical gage                                         | A3                                |
|                                                                   | B3                                |
| Connection in acc. with standard                                  | IEC 61984                         |
| Conductor cross-section rigid                                     | 0.5 mm² ... 4 mm²                 |
| Cross section AWG                                                 | 20 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible                                  | 0.75 mm² ... 4 mm²                |
| Conductor cross-section, flexible [AWG]                           | 20 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 2.5 mm²               |

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

|                                                                |                                             |
|----------------------------------------------------------------|---------------------------------------------|
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Nominal current                                                | 24 A                                        |
| Maximum load current                                           | 24 A                                        |
| Nominal voltage                                                | 800 V                                       |
| Nominal cross section                                          | 2.5 mm <sup>2</sup>                         |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| Height             | 80.7 mm |
| Depth              | 35.3 mm |
| Depth on NS 35/7,5 | 36.8 mm |
| Depth on NS 35/15  | 44.3 mm |

## Material specifications

|                                                                  |                 |
|------------------------------------------------------------------|-----------------|
| Color                                                            | blue (RAL 5015) |
| Flammability rating according to UL 94                           | V0              |
| Insulating material group                                        | I               |
| Insulating material                                              | PA              |
| Static insulating material application in cold                   | -60 °C          |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R26           | HL 1 - HL 3     |
| Surface flammability NFPA 130 (ASTM E 162)                       | passed          |
| Specific optical density of smoke NFPA 130 (ASTM E 662)          | passed          |
| Smoke gas toxicity NFPA 130 (SMP 800C)                           | passed          |

## Electrical tests

### Surge voltage test

|                                                  |             |
|--------------------------------------------------|-------------|
| Test voltage setpoint                            | 9.8 kV      |
| Result                                           | Test passed |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 kA      |
| Result                                           | Test passed |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Mechanical tests

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

## Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

## Attachment on the carrier

|                     |             |
|---------------------|-------------|
| Test force setpoint | 1 N         |
| Result              | Test passed |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Specification          | EN 50155:2021-07                                 |
| Spectrum               | Long life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$   |
| ASD level              | $0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$       |
| Acceleration           | $5.72 \text{ m/s}^2$                             |
| Test duration per axis | 5 h                                              |
| Test directions        | X-, Y- and Z-axis                                |
| Result                 | Test passed                                      |

### Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Specification                  | EN 50155:2021-07                  |
| Pulse shape                    | Half-sine                         |
| Acceleration                   | $50 \text{ m/s}^2$                |
| Shock duration                 | 30 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |
| Result                         | Test passed                       |

### Ambient conditions

|                                          |                                                                                                 |
|------------------------------------------|-------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 100 °C (max. operating temperature range including self-heating, see derating curve) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)                       |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                                                 |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                                                 |
| Permissible humidity (operation)         | 20 % ... 90 %                                                                                   |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                   |

## Standards and regulations

|                                  |           |
|----------------------------------|-----------|
| Connection in acc. with standard | IEC 61984 |
|----------------------------------|-----------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|---------------|-----------|

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

|  |          |
|--|----------|
|  | NS 35/15 |
|--|----------|

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block

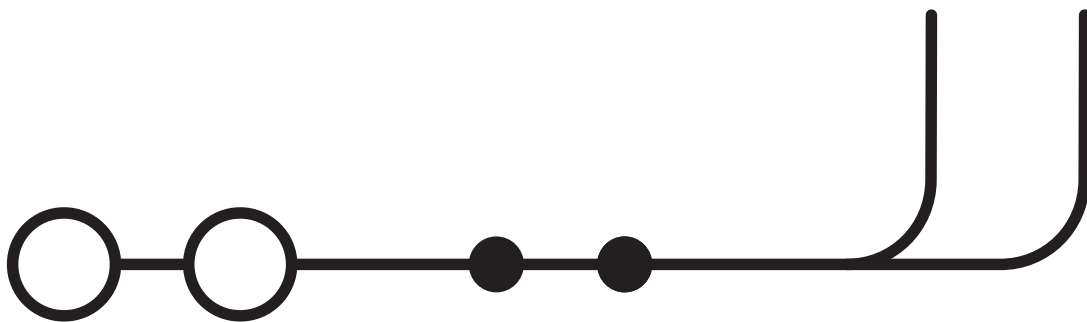


1544645

<https://www.phoenixcontact.com/dk/products/1544645>

## Drawings

Circuit diagram



# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/dk/products/1544645>

| CSA<br>Approval ID: 2030668 |                       |                       |                   |                             |
|-----------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                           |                       |                       |                   |                             |
|                             | 300 V                 | 20 A                  | 20 - 12           | -                           |
| C                           |                       |                       |                   |                             |
|                             | 300 V                 | 20 A                  | 20 - 12           | -                           |
| D                           |                       |                       |                   |                             |
|                             | 600 V                 | 5 A                   | 20 - 12           | -                           |

| cULus Recognized<br>Approval ID: E60425 |                       |                       |                   |                             |
|-----------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                       |                       |                       |                   |                             |
|                                         | 600 V                 | 20 A                  | 20 - 12           | -                           |
| C                                       |                       |                       |                   |                             |
|                                         | 600 V                 | 20 A                  | 20 - 12           | -                           |
| F                                       |                       |                       |                   |                             |
|                                         | 800 V                 | 20 A                  | 20 - 12           | -                           |
| D                                       |                       |                       |                   |                             |
|                                         | 600 V                 | 5 A                   | 20 - 12           | -                           |

| DNV<br>Approval ID: TAE000051K |  |  |  |  |
|--------------------------------|--|--|--|--|
|--------------------------------|--|--|--|--|

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250117 |
| ECLASS-15.0 | 27250117 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

# XT 2,5-QUATTRO/2P BU - Feed-through terminal block



1544645

<https://www.phoenixcontact.com/dk/products/1544645>

## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT A/S  
Hammerholmen 43C, 1. tv.  
DK-2650 Hvidovre  
36 77 44 11  
[kundeservice@phoenixcontact.dk](mailto:kundeservice@phoenixcontact.dk)