

# XTV 10-TWIN-PE - Protective conductor terminal block



1329606

<https://www.phoenixcontact.com/us/products/1329606>

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Protective conductor terminal block, number of connections: 3, number of positions: 1, connection method: Push-X-connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1329606       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE25          |
| Product key                          | BE2522        |
| GTIN                                 | 4063151624194 |
| Weight per piece (including packing) | 48.952 g      |
| Weight per piece (excluding packing) | 44 g          |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Notes

#### General

|      |                                                                                              |
|------|----------------------------------------------------------------------------------------------|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |
|------|----------------------------------------------------------------------------------------------|

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Product family        | XTV                   |
| Area of application   | Railway industry      |
|                       | Machine building      |
|                       | Plant engineering     |
| Number of positions   | 1                     |
| Number of connections | 3                     |
| Number of rows        | 1                     |
| Potentials            | 1                     |

#### Insulation characteristics

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

### Electrical properties

|                                                 |      |
|-------------------------------------------------|------|
| Maximum power dissipation for nominal condition | 0 W  |
| Test surge voltage                              | 8 kV |

### Connection data

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Number of connections per level                                   | 3                                          |
| Nominal cross section                                             | 10 mm <sup>2</sup>                         |
| Connection method                                                 | Push-X-connection                          |
| Stripping length                                                  | 16 mm ... 18 mm                            |
| Internal cylindrical gage                                         | A6                                         |
|                                                                   | B5                                         |
| Connection in acc. with standard                                  | IEC 60947-7-2                              |
| Conductor cross-section rigid                                     | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Cross section AWG                                                 | 14 ... 6 (converted acc. to IEC)           |
| Conductor cross-section flexible                                  | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG]                           | 12 ... 6 (converted acc. to IEC)           |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Nominal cross section                                             | 10 mm <sup>2</sup>                         |

### Dimensions

|       |         |
|-------|---------|
| Width | 10.2 mm |
|-------|---------|

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|                    |         |
|--------------------|---------|
| End cover width    | 2.2 mm  |
| Height             | 89.1 mm |
| Depth              | 68.5 mm |
| Depth on NS 35/7,5 | 70 mm   |
| Depth on NS 35/15  | 77.5 mm |

## Material specifications

|                                                                  |              |
|------------------------------------------------------------------|--------------|
| Color                                                            | green-yellow |
| 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       |

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 ms                               |
| Number of shocks per direction | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |
| Result                         | Test passed                         |

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## Ambient conditions

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| 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 60947-7-2 |
|----------------------------------|---------------|

## Mounting

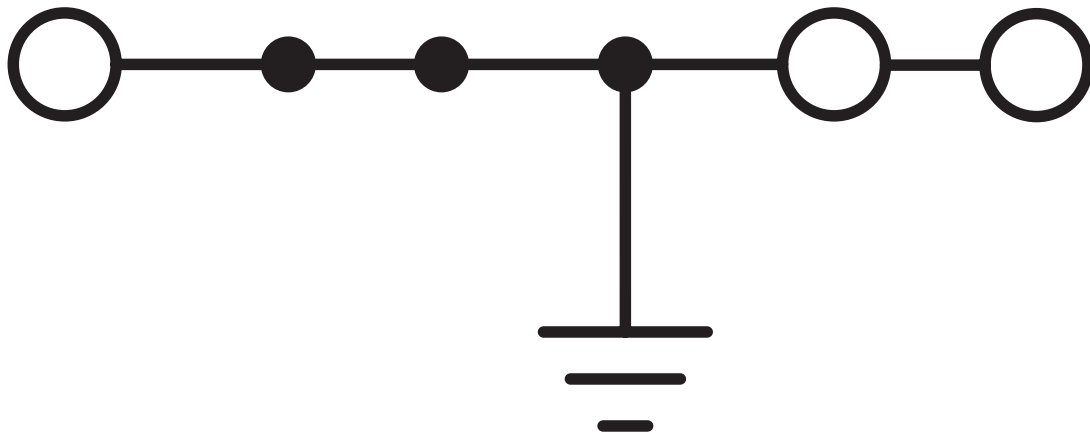
|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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## Drawings

Circuit diagram



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## Approvals

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| CSA<br>Approval ID: 2030668 |                       |                       |                   |                             |
|-----------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                           |                       |                       |                   |                             |
|                             | -                     | -                     | 12 - 6            | -                           |
| C                           |                       |                       |                   |                             |
|                             | -                     | -                     | 12 - 6            | -                           |

| cULus Recognized<br>Approval ID: E60425 |                       |                       |                   |                             |
|-----------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                       |                       |                       |                   |                             |
|                                         | -                     | -                     | 12 - 6            | -                           |
| C                                       |                       |                       |                   |                             |
|                                         | -                     | -                     | 12 - 6            | -                           |

| DNV<br>Approval ID: TAE000050T |  |  |  |  |
|--------------------------------|--|--|--|--|
|--------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250103 |
| ECLASS-15.0 | 27250103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000901 |
|----------|----------|

### UNSPSC

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

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## 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%               |

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