

FC 4-PCB/8 - Connector

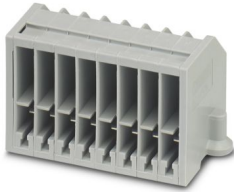


3208694

<https://www.phoenixcontact.com/us/products/3208694>

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PCB header, 8-pos.



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 3208694 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to order (non-returnable) |
| Sales key | BE64 |
| Product key | BE643X |
| GTIN | 4046356663366 |
| Weight per piece (including packing) | 35.57 g |
| Weight per piece (excluding packing) | 35.57 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|------|
| Product type | Plug |
| Number of positions | 8 |
| Number of rows | 1 |
| Potentials | 8 |

Insulation characteristics

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

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 0.77 W |

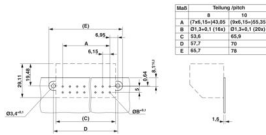
Connection data

| | |
|-------------------------|---------------------|
| Nominal cross section | 2.5 mm ² |
| Rated cross section AWG | 14 |

Level 1

| | |
|---|---|
| Connection method | Spade connection/solder connection |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross-section rigid | 0.5 mm ² ... 2.5 mm ² |
| Cross section AWG | 20 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible [AWG] | 20 ... 14 (converted acc. to IEC) |
| Nominal current | 15 A |
| Maximum load current | 15 A |
| Nominal voltage | 320 V |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 65.7 mm |
| Height | 29.1 mm |
| Depth | 34.3 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |

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| | |
|---|-------------|
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| 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

| | |
|--|-------------|
| Short-time withstand current 2.5 mm ² | 0.01 kA |
| Result | Test passed |

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Environmental and real-life conditions

Service life

| | |
|-----------------------------|-----|
| Insertion/withdrawal cycles | 100 |
|-----------------------------|-----|

Needle-flame test

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

Oscillation/broadband noise

| | |
|-----------------|---------------------------------------|
| Specification | DIN EN 60255-21-1:1996-05 (following) |
| Frequency | 10 Hz ... 150 Hz |
| Acceleration | 1g (84.2 Hz ... 150 Hz) |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|---------------------------------------|
| Specification | DIN EN 60255-21-1:1996-05 (following) |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 11 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 ... 105 °C (max. short-term operating temperature 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 (storage/transport) | 30 % ... 70 % |

Standards and regulations

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

Mounting

| | |
|---------------|--------------|
| Mounting type | PCB mounting |
|---------------|--------------|

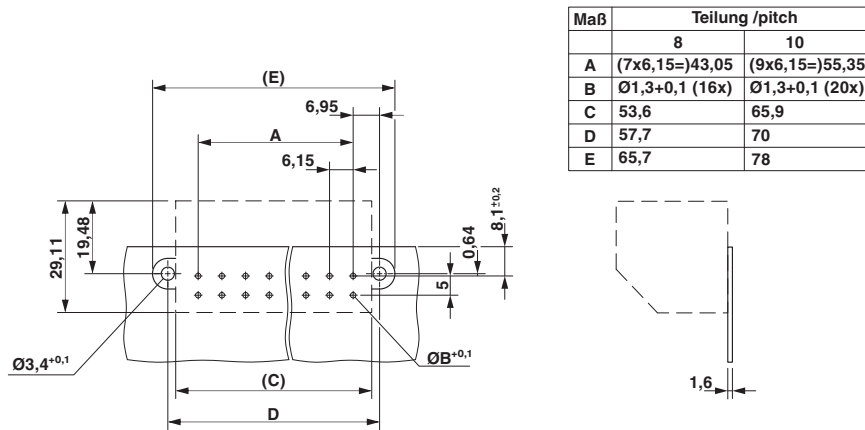
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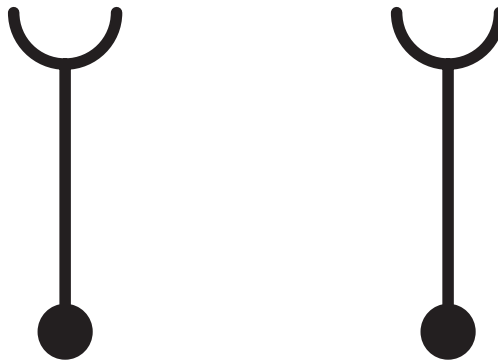
Drawings

Dimensional drawing



Drilling diagram

Circuit diagram



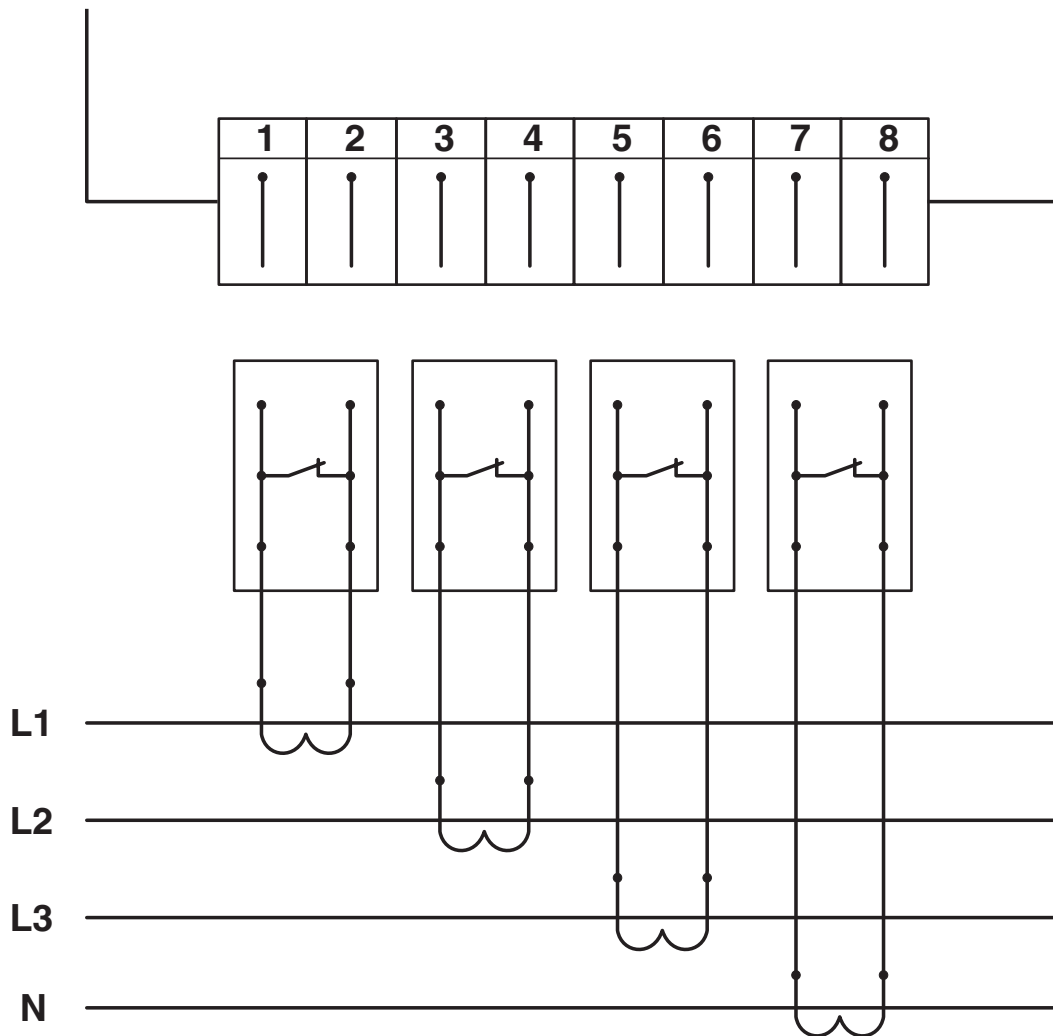
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Circuit diagram



In conjunction with the UP 4-CUS/4CT connector

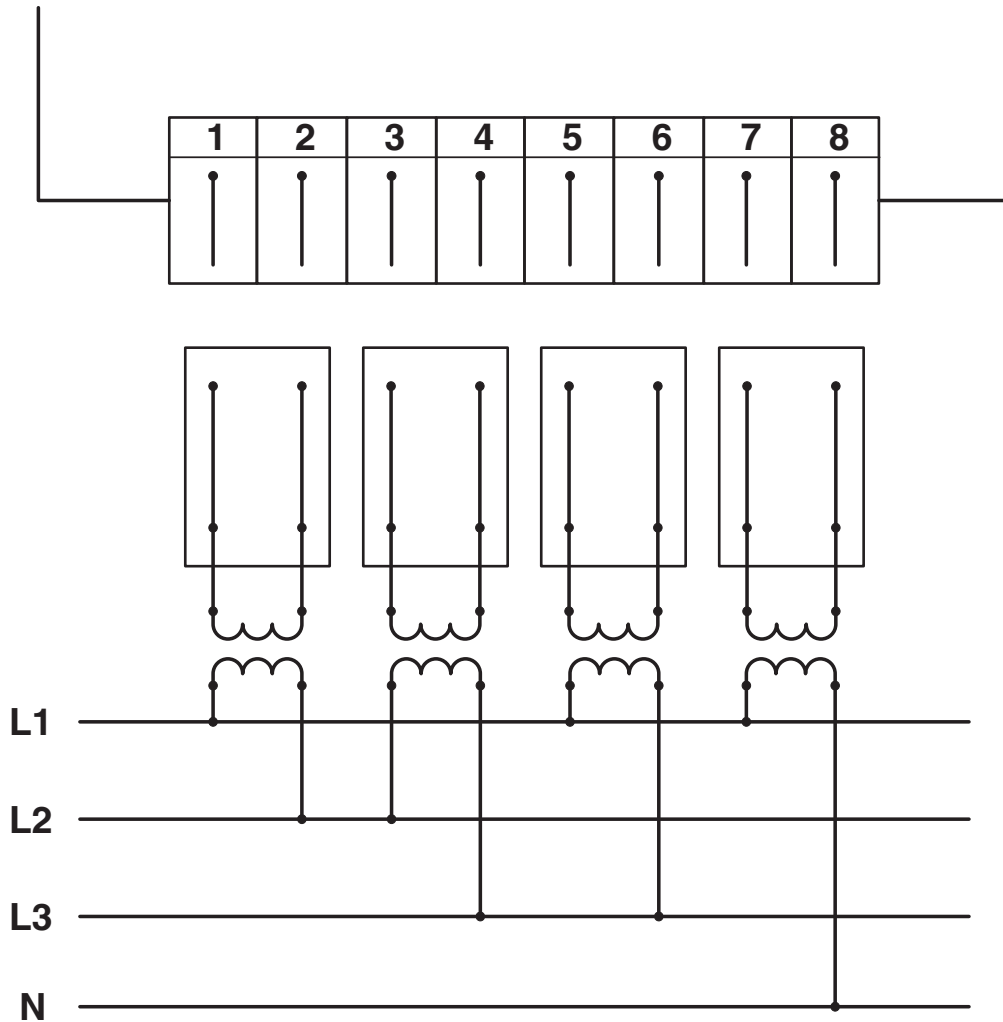
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Circuit diagram



In conjunction with the UP 4-CUS/4VT connector

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3208694>



CSA

Approval ID: 13631



cULus Recognized

Approval ID: E60425



CSA

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250301 |
| ECLASS-15.0 | 27250301 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000886 |
|-----------|----------|

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.171 kg CO2e |
|---------|---------------|

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