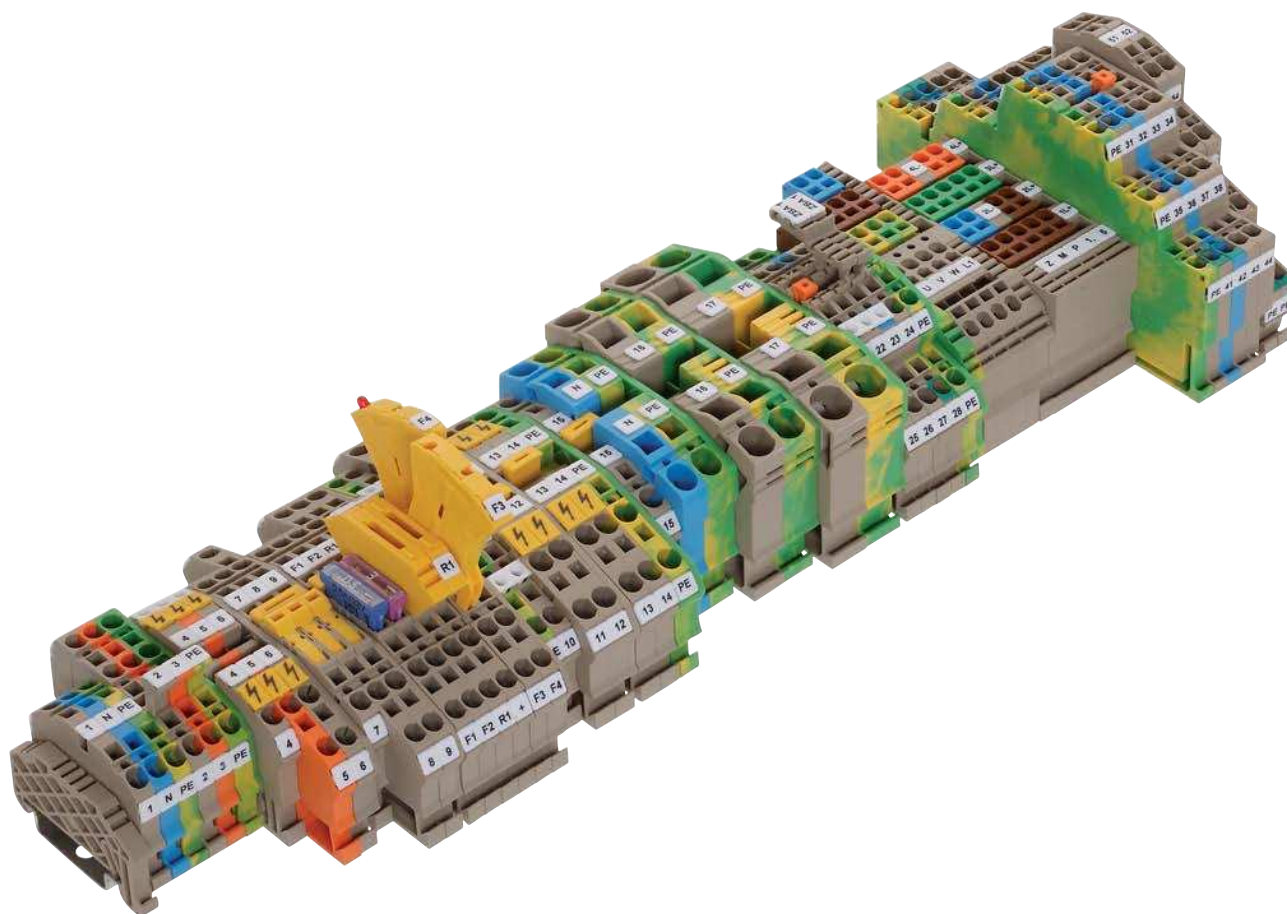


Tension-spring connection system ZRK | ZSL *Proven – Safe – Reliable*



CONTA-CLIP offers an innovative product line featuring the proven tension-spring connection system for the smallest cross-sections ranging from 0.2 mm² to 16 mm². This includes feed-through and protective-earth terminal, disconnect terminals, fused terminals, actuator terminals, sensor terminals, motor-connection terminals and direct-mounting terminals. The tension-spring top mechanism provides safe and quick connections for solid and stranded wires, with or without wire-end ferrules. The protective-earth terminals feature a PE foot contact that is snapped on, ensuring mechanical and electrical safety. The PE foot contact is on both sides of the PE terminals and can be snapped on to the DIN rail with no screws. Our well-designed line of accessories allows you to significantly reduce your installation and storage costs. You can multiply voltage potentials horizontally or vertically with the ZQI and ZVQI pluggable potential distribution systems. All of the insulating materials used in this product line are free of pollutants. They also comply with flammability class V0 (self-extinguishing) according to UL 94.



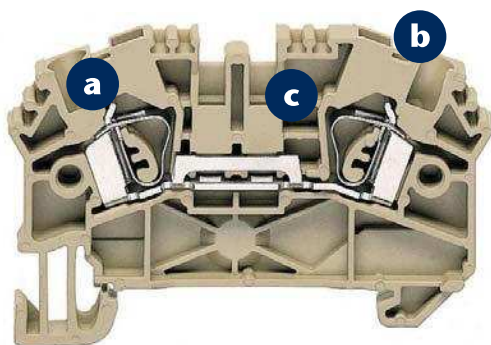
Tension-spring connection system ZRK | ZSL

Features

a The connection | Secure contact

The tension-spring at the wire connection is held securely by the positioned busbar.

- The stainless steel spring provides permanent contact force between the wire and the busbar
- Clear separation of electrical and mechanical functions
- The busbars are made from copper with surface coating (tin)
- Resistant to vibration and maintenance-free
- Corrosion-free
- Space-saving design
- Foot base can be snapped on TS 35 DIN rail



c Pluggable cross-connection options

Distributing potentials with the pluggable **ZQI** cross-connection system is quick and easy. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 2.5 mm² and 4 mm².

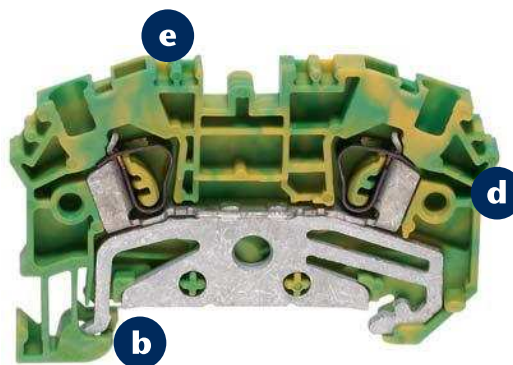
- Available in 2 – 10 and 99 poles (for custom assemblies)
- Simple to insert and thus quicker to install
- No insulation plate or partition plate is required between a neighbouring cross-connection, since the ZQI has a touch-safe protective design
- Cross-connection can carry the full rated current and voltage of the corresponding terminal block
- Individual terminals can be skipped over by breaking out contact pins in the cross-connector



b Quick and easy to wire

Less time spent wiring thanks to the easy-to-operate tension-spring connection mechanism.

- Easy to work with
- Easy to operate, even under cramped working conditions, because of the TOP connection
- Generous wire-entry geometry
- Saves time and money
- PE foot contact on both sides – can be snapped on (no screws) to **TS 35x7.5** and **TS 35x15** rails



d Housing insulation material

- Polyamide PA6.6 UL 94, flamm. class V0, self-extinguishing without burning drops
- Free of hazardous materials such as halogen or phosphor
- Creepage resistance: CTI 600
- Operating temperature from -40°C to +120°C

e Marking options

Marking options are available for the standard terminals in 2.5 mm² to 16 mm².

Tension-spring connection system ZRK | ZSL

An overview of the advantages

Less wiring time | Compact shape

The tension-spring connect system – thanks to its TOP connection and compact shape – provides an advantage when wiring in cramped working conditions.



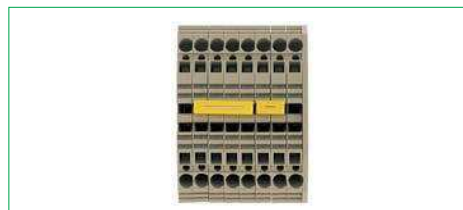
More spacious connection space

The larger connection space offered by the ZRK | ZSL tension-clamp terminals speeds up wiring for solid or stranded wires with or without wire-end ferrules. The rated cross-sections specified in our documentation correspond to a connection with stranded wires using wire-end ferrules. It is also possible to use solid wires up to the next larger cross-section size.



Cross-connection system

The standard feed-through terminals in 2.5 mm² and 4 mm² feature two cross-connection channels. So the two-pole **ZQI.../2** cross-connectors can be used to connect any number of terminals with each other.



Distributing potentials

The cross-connectors are available from 2 to 10 poles and with 99 poles. Two cross-connection channels allow two voltages to be fed across when working with the standard terminals with rated cross-sections of 2.5 mm² and 4 mm².



Skip-over bridging

It is possible to skip over terminal blocks by breaking out individual contact poles. You can mark these broken-off contact elements using the plastic insulation of the cross-connector.



Power feed with small cross-sections

With tension-spring terminals of larger cross-sections, standard cross-connectors can connect to a single terminal of the next size up for the power feed-in. The ZQI cross-connection system can carry the rated voltage and rated current.



Tension-spring connection system ZRK | ZSL

An overview of the advantages

Vertical connection for multi-level terminals

The different levels of the double-level and triple-level terminals can be connected electrically using a vertical connector.

Labelling

High-quality, quick and concise labelling is possible when using the **PMC SB**, **PMC BSTR** or **MC** labelling systems. The standard terminals feature up to four labelling channels.

Additional marking options

In addition to the standard holder in the terminal housing, you can also label the multi-level terminals. The **ZBA** labelling adapter can be attached to the middle of the terminal housing – even when the terminal is wired up.

An effective and comprehensive range

The feed-through and PE terminals with cross-sections of 2.5 mm² to 4 mm² are available in two-wire, three-wire and four-wire versions. The product line also includes standard terminals and functional terminals including fused terminals, initiator terminals, disconnect terminals and direct-mounting terminals.

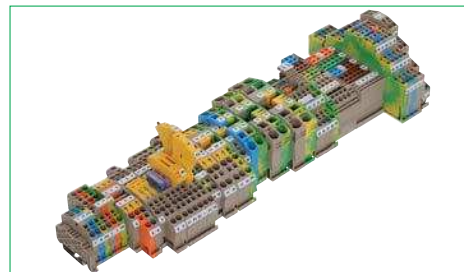
Testing assembled terminal blocks

The ZTA test adapters can be assembled to any pole counts using the locking pegs. They can be used to test assembled terminal block strips in a quick and safe manner. Wire cross-sections ranging from 0.5 mm² to 1 mm² can be connected. Each tension-clamp terminal has a corresponding test point for establishing contact to the potential voltage on the busbar.

A comprehensive line of accessories

is available starting at page 264.

- DIN rails
- Mechanical attachment | end stop
- Group marker holders
- End plates | Visual separation
- Cross-connections (Potential distribution)
- Covers
- Reducing sleeves
- Test adapters



Feed-through terminals ZSRK | Protective earth terminals ZSLN

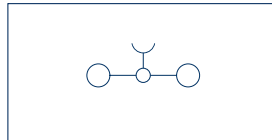
Tension-spring connection system



- Foot can be snapped on TS15 or TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

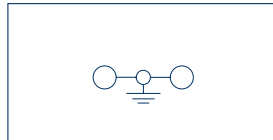
Connection diagram

ZSRK 2,5/2A/15



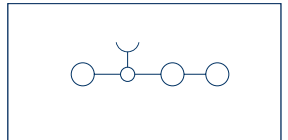
Feed-through terminal
2 connections

ZSLN 2,5/2A/15



Protective earth terminal
2 connections

ZSRK 2,5/3A/15



Feed-through terminal
3 connections

Connection type

Size (L x W x H) with TS 15 x 5.5 (H with labelling adapter), in mm

Size (L x W x H) with TS 35 x 7.0 (H with labelling adapter), in mm

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm² | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm²

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²

Contact wire range, mm²

Stripping length, mm

Tension-spring

40 x 5.1 x 34

Tension-spring

40 x 5.1 x 34

Tension-spring

52.5 x 5.1 x 34 (44)

Qty.

ZSRK 2,5/2A/15 BG

3585.2 100

ZSRK 2,5/2A/15 BU

3585.5 100

ZSRK 2,5/2A/15 OG

3585.3 100

Qty.

ZSLN 2,5/2A/15 GNYE

3586.2 100

Qty.

ZSRK 2,5/3A/15 BG

3599.2 100

ZSRK 2,5/3A/15 BU

3599.5 100

ZSRK 2,5/3A/15 OG

3599.3 100

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 300 300

24 20 20

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

②

IEC CSAus CSA

800 300 300

24 20 20

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

② ⑤ ③ ① ⑧ ⑨

IEC CSAus CSA

800 300 300

24 20 20

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Insulated cross-connector ZQI

Cat. no. 2 poles

Insulated cross-connector ZQI

Cat. no. 3 poles

Insulated cross-connector ZQI

Cat. no. 4 poles

Insulated cross-connector ZQI

Cat. no. 5 poles

Insulated cross-connector ZQI

Cat. no. 6 poles

Insulated cross-connector ZQI

Cat. no. 7 poles

Insulated cross-connector ZQI

Cat. no. 8 poles

Insulated cross-connector ZQI

Cat. no. 9 poles

Insulated cross-connector ZQI

Cat. no. 10 poles

Insulated cross-connector ZQI

Cat. no. 99 poles

Four-way cover ZAD

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver / Metal actuating tool BWMA

Cat. no.

Quick marking PMC SB

Cat. no.

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZAP SR BG

3757.2 280 50

ZQI 2,5/2 YE

3710.8 308 50

ZQI 2,5/3 YE

3711.8 308 50

ZQI 2,5/4 YE

3712.8 308 20

ZQI 2,5/5 YE

3713.8 308 20

ZQI 2,5/6 YE

3714.8 308 20

ZQI 2,5/7 YE

3715.8 308 20

ZQI 2,5/8 YE

3716.8 308 10

ZQI 2,5/9 YE

3717.8 308 10

ZQI 2,5/10 YE

3718.8 308 10

ZQI 2,5/0.5 m/99 poles YE

3719.8 308 1

ZAD 2.5/4/B YE

3706.0 315 20

ZES 15 BG

3812.2 275 50

ZTA 2,5

3740.2 320 10

BWMA 1 (0.5x3.5mm)

3808.0 328 1

PMC SB 5/50 WH

4600.7 339 500

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZAP-SR GN

3757.1 280 50

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZAP SR 3A/15 BG

3794.2 280 50

ZQI 2,5/2 YE

3710.8 308 50

ZQI 2,5/3 YE

3711.8 308 50

ZQI 2,5/4 YE

3712.8 308 20

ZQI 2,5/5 YE

3713.8 308 20

ZQI 2,5/6 YE

3714.8 308 20

ZQI 2,5/7 YE

3715.8 308 20

ZQI 2,5/8 YE

3716.8 308 10

ZQI 2,5/9 YE

3717.8 308 10

ZQI 2,5/10 YE

3718.8 308 10

ZQI 2,5/0.5 m/99 poles YE

3719.8 308 1

ZAD 2.5/4/B YE

3706.0 315 20

ZES 15 BG

3812.2 275 50

ZTA 2,5

3740.2 320 10

BWMA 1 (0.5x3.5mm)

3808.0 328 1

PMC SB 5/50 WH

4600.7 339 500

ZSLN 2,5/3A/15	ZSRK 2,5/2A	ZSLN 2,5/2A	ZSRK 2,5/3A	ZSLN 2,5/3A
Protective earth terminal 3 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections	Feed-through terminal 3 connections	Protective earth terminal 3 connections
Tension-spring 52.5 x 5.1 x 34 (44)	Tension-spring 43.5 x 5.1 x 36.5	Tension-spring 43.5 x 5.1 x 36.5	Tension-spring 55 x 5.1 x 36.5 (46.5)	Tension-spring 55 x 5.1 x 36.5 (46.5)
ZSLN 2,5/3A/15 GNYE 3601.2 Qty. 100	ZSRK 2,5/2A BG 3583.2 Qty. 100 ZSRK 2,5/2A BU 3583.5 Qty. 100 ZSRK 2,5/2A OG 3583.3 Qty. 100	ZSLN 2,5/2A GNYE 3584.2 Qty. 100	ZSRK 2,5/3A BG 3600.2 Qty. 100 ZSRK 2,5/3A BU 3600.5 Qty. 100 ZSRK 2,5/3A OG 3600.3 Qty. 100	ZSLN 2,5/3A GNYE 3602.2 Qty. 100
IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA
800 24 2.5 20-12 8 3 A3 V0 0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	800 24 2.5 20-12 8 3 A3 V0 0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	800 24 2.5 20-12 8 3 A3 V0 0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	800 24 2.5 20-12 8 3 A3 V0 0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	800 24 2.5 20-12 8 3 A3 V0 0.5-4 - 0.5-4 0.5-2.5 0.08-4 10
PA 6.6 -40 to +120°C 1 2	PA 6.6 -40 to +120°C 1 2	PA 6.6 -40 to +120°C 1 2	PA 6.6 -40 to +120°C 1 2	PA 6.6 -40 to +120°C 1 2
Page Qty.	Page Qty.	Page Qty.	Page Qty.	Page Qty.
ZAP SR 3A/15 GN 3794.1 280 50	ZAP SR BG 3757.2 280 50 ZQI 2,5/2 YE 3710.8 308 50 ZQI 2,5/3 YE 3711.8 308 50 ZQI 2,5/4 YE 3712.8 308 20 ZQI 2,5/5 YE 3713.8 308 20 ZQI 2,5/6 YE 3714.8 308 20 ZQI 2,5/7 YE 3715.8 308 20 ZQI 2,5/8 YE 3716.8 308 10 ZQI 2,5/9 YE 3717.8 308 10 ZQI 2,5/10 YE 3718.8 308 10 ZQI 2,5/0.5 m/99 poles YE 3719.8 308 1	ZAP SR GN 3757.1 280 50	ZAP SR 3A/35 BG 3795.2 280 50 ZQI 2,5/2 YE 3710.8 308 50 ZQI 2,5/3 YE 3711.8 308 50 ZQI 2,5/4 YE 3712.8 308 20 ZQI 2,5/5 YE 3713.8 308 20 ZQI 2,5/6 YE 3714.8 308 20 ZQI 2,5/7 YE 3715.8 308 20 ZQI 2,5/8 YE 3716.8 308 10 ZQI 2,5/9 YE 3717.8 308 10 ZQI 2,5/10 YE 3718.8 308 10 ZQI 2,5/0.5 m/99 poles YE 3719.8 308 1	ZAP SR 3A/35 GN 3795.1 280 50
ZAD 2.5/4/B YE 3706.0 315 20 ZES 15 BG 3812.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 (0.5x3.5mm) 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2.5/4/B YE 3706.0 315 20 ZES 35/2 BG 3811.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 (0.5x3.5mm) 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2.5/4/B YE 3706.0 315 20 ZES 35/2 BG 3811.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 (0.5x3.5mm) 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2.5/4/B YE 3706.0 315 20 ZES 35/2 BG 3811.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 (0.5x3.5mm) 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2.5/4/B YE 3706.0 315 20 ZES 35/2 BG 3811.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 (0.5x3.5mm) 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500

Feed-through terminals ZRK | Protective earth terminals ZSL

Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

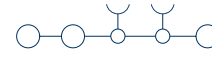
Connection diagram



Feed-through terminal
2 connections



Protective earth terminal
2 connections



Feed-through terminal
3 connections

Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Tension-spring

59 x 5.1 x 39

Tension-spring

59 x 5.1 x 39

Tension-spring

71,3 x 5.1 x 39

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm² | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm²

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²

Contact wire range, mm²

Stripping length, mm

Qty.

ZRK 2,5/2A BG

3500.2

100

ZRK 2,5/2A BU

3500.5

100

ZRK 2,5/2A OG

3500.3

100

Qty.

ZSL 2,5/2A GNYE

3510.2

100

Qty.

ZRK 2,5/3A BG

3501.2

100

ZRK 2,5/3A BU

3501.5

100

ZRK 2,5/3A OG

3501.3

100

2 5 3 1 8 9

IEC

800

24

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

2

IEC

800

24

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

2 5 3 1 8 9

IEC

800

24

2.5 | 20-12

8 | 3

A3 | V0

0.5-4 | -

0.5-4 | 0.5-2.5

0.08-4

10

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Insulated cross-connector ZQI

Cat. no.

Four-way cover ZAD

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver / Metal actuating tool BWMA

Cat. no.

Quick marking PMC SB

Cat. no.

PA 6.6 | -40 to +120°C

2 | 2

ZAP 2,5/2A BG

3700.2

280

50

ZQI 2,5/2 YE

3710.8

308

50

ZQI 2,5/3 YE

3711.8

308

50

ZQI 2,5/4 YE

3712.8

308

20

ZQI 2,5/5 YE

3713.8

308

20

ZQI 2,5/6 YE

3714.8

308

20

ZQI 2,5/7 YE

3715.8

308

20

ZQI 2,5/8 YE

3716.8

308

10

ZQI 2,5/9 YE

3717.8

308

10

ZQI 2,5/10 YE

3718.8

308

10

ZQI 2,5/0.5 m/99 poles YE

3719.8

308

1

ZAD 2,5/4/B YE

3706.0

315

20

ZES 35 BG

3748.2

275

50

ZTA 2,5

3740.2

320

10

BWMA 1

3808.0

328

1

PMC SB 5/50 WH

4600.7

339

500

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

PA 6.6 | -40 to +120°C

0 | 2

ZAP 2,5/2A GN

3700.1

280

50

ZSL 2,5/3A	ZRK 2,5/4A	ZSL 2,5/4A	ZRK 2,5/2x2A	
Protective earth terminal 3 connections	Feed-through terminal 4 connections	Protective earth terminal 4 connections	Feed-through terminal 2 x 2 connections	
Tension-spring 71.3 x 5.1 x 39	Tension-spring 83.6 x 5.1 x 39	Tension-spring 83.6 x 5.1 x 39	Tension-spring 83.6 x 5.1 x 39	
Qty.	Qty.	Qty.	Qty.	
ZSL 2,5/3A GNYE 3511.2 100	ZRK 2,5/4A BG 3502.2 100 ZRK 2,5/4A BU 3502.5 100 ZRK 2,5/4A OG 3502.3 100	ZSL 2,5/4A GNYE 3512.2 100	ZRK 2,5/2x2A BG 3503.2 100 ZRK 2,5/2x2A BU 3503.5 100 ZRK 2,5/2x2A OG 3503.3 100	
IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	
2.5 20-12 8 3 A3 V0	2.5 20-12 8 3 A3 V0	2.5 20-12 8 3 A3 V0	2.5 20-12 8 3 A3 V0	
0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	0.5-4 - 0.5-4 0.5-2.5 0.08-4 10	
PA 6.6 -40 to +120°C 0 2	PA 6.6 -40 to +120°C 2 2	PA 6.6 -40 to +120°C 0 2	PA 6.6 -40 to +120°C 0 2	
Page Qty.	Page Qty.	Page Qty.	Page Qty.	
ZAP 2,5/3A GN 3701.1 280 50	ZAP 2,5/4A BG 3702.2 280 50 ZQI 2,5/2 YE 3710.8 308 50 ZQI 2,5/3 YE 3711.8 308 50 ZQI 2,5/4 YE 3712.8 308 20 ZQI 2,5/5 YE 3713.8 308 20 ZQI 2,5/6 YE 3714.8 308 20 ZQI 2,5/7 YE 3715.8 308 20 ZQI 2,5/8 YE 3716.8 308 10 ZQI 2,5/9 YE 3717.8 308 10 ZQI 2,5/10 YE 3718.8 308 10 ZQI 2,5/0.5 m/99 poles YE 3719.8 308 1	ZAP 2,5/4A GN 3702.1 280 50	ZAP 2,5/4A BG 3702.2 280 50	
ZAD 2,5/4/B YE 3706.0 315 20 ZES 35 BG 3748.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2,5/4/B YE 3706.0 315 20 ZES 35 BG 3748.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2,5/4/B YE 3706.0 315 20 ZES 35 BG 3748.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	ZAD 2,5/4/B YE 3706.0 315 20 ZES 35 BG 3748.2 275 50 ZTA 2,5 3740.2 320 10 BWMA 1 3808.0 328 1 PMC SB 5/50 WH 4600.7 339 500	

Feed-through terminals with electronic components ZRK

Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

ZRK 2,5/2x2A/D1



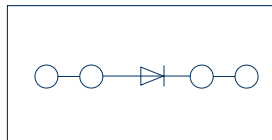
ZRK 2,5/2x2A/D2



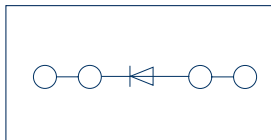
ZRK 2,5/2x2A/LED1



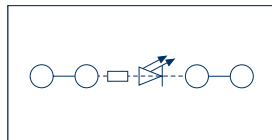
Connection diagram



Diode terminal
2 x 2 connections



Diode terminal
2 x 2 connections



LED indicator terminal
2 x 2 connections

Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Tension-spring

83.6 x 5.1 x 39

Tension-spring

83.6 x 5.1 x 39

Tension-spring

83.6 x 5.1 x 39

Type colour

Cat. no.

ZRK 2,5/2x2A/D1 BG
3504.2 100

Type colour

Cat. no.

ZRK 2,5/2x2A/D2 BG
3542.2 100

Type colour

Cat. no.

ZRK 2,5/2x2A/LED1(RD)/24V DC BG
3505.2 100

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm² | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm²

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²

Contact wire range, mm²

Stripping length, mm

Diode

IEC	CSAus	CSA
800	600	600
24	27	27
2.5 20-12		
8 3		
A3 V0		
0.5-4 -		
0.5-4 0.5-2.5		
0.08-4		
10		
1N4007		

Reverse voltage 1000V | Current 1A

IEC	CSAus	CSA
800	600	600
24	27	27
2.5 20-12		
8 3		
A3 V0		
0.5-4 -		
0.5-4 0.5-2.5		
0.08-4		
10		
1N4007		

Reverse voltage 1000V | Current 1A

IEC	CSAus	CSA
	24	
	< 5 mA	
2.5 20-12		
8 3		
A3 V0		
0.5-4 -		
0.5-4 0.5-2.5		
0.08-4		
10		
red LED		

Current via LED < 5 mA

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

PA 6.6 | -40 to +120°C
1 | 2

PA 6.6 | -40 to +120°C
1 | 2

PA 6.6 | -40 to +120°C
1 | 2

Accessories

End plate AP

Cat. no.

Four-way cover ZAD

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver / Metal actuating tool BWMA

Cat. no.

Quick marking PMC SB

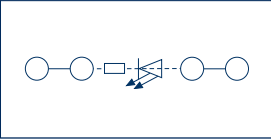
Cat. no.

	Page	Qty.
ZAP 2,5/4A BG		
3702.2	280	50
ZAD 2.5/4/B YE		
3706.0	315	20
ZES 35 BG		
3748.2	275	50
ZTA 2,5		
3740.2	320	10
BWMA 1		
3808.0	328	1
PMC SB 5/50 WH		
4600.7	339	500

	Page	Qty.
ZAP 2,5/4A BG		
3702.2	280	50
ZAD 2.5/4/B YE		
3706.0	315	20
ZES 35 BG		
3748.2	275	50
ZTA 2,5		
3740.2	320	10
BWMA 1		
3808.0	328	1
PMC SB 5/50 WH		
4600.7	339	500

	Page	Qty.
ZAP 2,5/4A BG		
3702.2	280	50
ZAD 2.5/4/B YE		
3706.0	315	20
ZES 35 BG		
3748.2	275	50
ZTA 2,5		
3740.2	320	10
BWMA 1		
3808.0	328	1
PMC SB 5/50 WH		
4600.7	339	500

ZRK 2,5/2x2A/LED2



LED indicator terminal
2 x 2 connections

Tension-spring
83.6 x 5.1 x 39

Qty.
ZRK 2,5/2x2A/LED2(RD)/24V DC BG
3543.2 100

IEC	CSAus	CSA
	24	
	< 5 mA	
	2.5 20-12	
	8 3	
	A3 V0	
	0.5-4 -	
	0.5-4 0.5-2.5	
	0.08-4	
	10	
	red LED	
Current via LED < 5 mA		
	PA 6.6 -40 to +120°C	
	1 2	

	Page	Qty.
ZAP 2,5/4A BG 3702.2	280	50
ZAD 2,5/4/B YE 3706.0	315	20
ZES 35 BG 3748.2	275	50
ZTA 2,5 3740.2	320	10
BWMA 1 3808.0	328	1
PMC SB 5/50 WH 4600.7	339	500

ZSL 4/3A	ZRK 4/4A	ZSL 4/4A	ZRK 4/2x2A	
Protective earth terminal 3 connections	Feed-through terminal 4 connections	Protective earth terminal 4 connections	Feed-through terminal 2 x 2 connections	
Tension-spring 78.5 x 6.1 x 42	Tension-spring 93 x 6.1 x 42	Tension-spring 93 x 6.1 x 42	Tension-spring 93 x 6.1 x 42	
ZSL 4/3A GNYE 3526.2	ZRK 4/4A BG 3517.2	ZSL 4/4A GNYE 3527.2	ZRK 4/2x2A BG 3518.2	
Qty. 100	ZRK 4/4A BU 3517.5		ZRK 4/2x2A BU 3518.5	
	ZRK 4/4A OG 3517.3		ZRK 4/2x2A OG 3518.3	
	Qty. 100		Qty. 100	
	Qty. 100		Qty. 100	
IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA	
800 600 600	800 600 600	800 600 600	800 600 600	
32 35 35	32 35 35	32 35 35	32 35 35	
4 20-10	4 20-10	4 20-10	4 20-10	
8 3	8 3	8 3	8 3	
A4 V0	A4 V0	A4 V0	A4 V0	
0.5-6 -	0.5-6 -	0.5-6 -	0.5-6 -	
0.6-6 0.5-4	0.6-6 0.5-4	0.6-6 0.5-4	0.6-6 0.5-4	
0.08-6	0.08-6	0.08-6	0.08-6	
12	12	12	12	
PA 6.6 -40 to +120°C	PA 6.6 -40 to +120°C	PA 6.6 -40 to +120°C	PA 6.6 -40 to +120°C	
0 2	2 2	0 2	0 2	
Page Qty.	Page Qty.	Page Qty.	Page Qty.	
ZAP 4/3A GN 3704.1	ZAP 4/4A BG 3705.2	ZAP 4/4A GN 3705.1	ZAP 4/4A BG 3705.2	
280 50	280 50	280 50	280 50	
	ZQI 4/2 YE 3720.8			
	308 50			
	ZQI 4/3 YE 3721.8			
	308 50			
	ZQI 4/4 YE 3722.8			
	308 20			
	ZQI 4/5 YE 3723.8			
	308 20			
	ZQI 4/6 YE 3724.8			
	308 20			
	ZQI 4/7 YE 3725.8			
	308 20			
	ZQI 4/8 YE 3726.8			
	308 10			
	ZQI 4/9 YE 3727.8			
	308 10			
	ZQI 4/10 YE 3728.8			
	308 10			
ZAD 4/4/B YE 3707.0	ZAD 4/4/B YE 3707.0	ZAD 4/4/B YE 3707.0	ZAD 4/4/B YE 3707.0	
315 20	315 20	315 20	315 20	
ZES 35 BG 3748.2	ZES 35 BG 3748.2	ZES 35 BG 3748.2	ZES 35 BG 3748.2	
275 50	275 50	275 50	275 50	
ZTA 4 3741.2	ZTA 4 3741.2	ZTA 4 3741.2	ZTA 4 3741.2	
320 10	320 10	320 10	320 10	
SDB 0.6x3.5 1086.0	SDB 0.6x3.5 1086.0	SDB 0.6x3.5 1086.0	SDB 0.6x3.5 1086.0	
422 1	422 1	422 1	422 1	
PMC SB 6/50 WH 4702.7	PMC SB 6/50 WH 4702.7	PMC SB 6/50 WH 4702.7	PMC SB 6/50 WH 4702.7	
340 500	340 500	340 500	340 500	

Feed-through terminals ZRK | Protective earth terminals ZSL

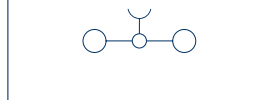
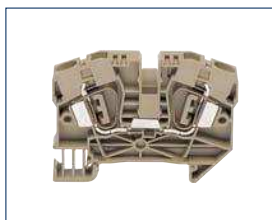
Tension-spring connection system



- Foot can be snapped on TS35 DIN rails
- Housing made from polyamide 6.6 UL 94-V0

Connection diagram

ZRK 6/2A



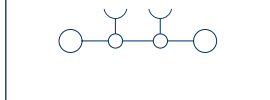
Feed-through terminal
2 connections

ZSL 6/2A



Protective earth terminal
2 connections

ZRK 10/2A



Feed-through terminal
2 connections

Connection type

Size (L x W x H) with TS 35 x 7.5 mm

Tension-spring

65 x 8.1 x 47.5

Tension-spring

65 x 8.1 x 47.5

Tension-spring

73.5 x 10.1 x 50.5

Type

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Type colour

Cat. no.

Colours available

Ratings

Rated voltage, V

Rated current, A

Rated wire cross-section, mm² | AWG

Rated impulse voltage, kV | Contamination degree

Plug gauge acc. to EN 60 947-1 | Flamm. class acc. to UL 94

Connection data

Single wire (solid) | stranded (stranded) mm²

Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm²

Contact wire range, mm²

Stripping length, mm

Qty.

ZRK 6/2A BG

3581.2

100

ZRK 6/2A BU

3581.5

100

ZRK 6/2A OG

3581.3

100

Qty.

ZSL 6/2A GNYE

3589.2

100

ZRK 10/2A BG

3597.2

50

ZRK 10/2A BU

3597.5

50

ZRK 10/2A OG

3597.3

50

② ⑤ ③ ① ⑨

IEC

CSAus

CSA

1000

600

600

41

50

50

6 | 22-8

8 | 3

A5 | V0

0.5-10 | -

0.5-10 | 0.5-6

0.5-10

13

②

IEC

CSAus

CSA

6 | 22-8

8 | 3

A5 | V0

0.5-10 | -

0.5-10 | 0.5-6

0.5-10

13

② ⑤ ③ ①

IEC

CSAus

CSA

1000

500

500

57

55

55

10 | 16-6

8 | 3

B6 | V0

1,5-16 | 1,5-16

1,5-10 | 1,5-10

1,5-16

18

Features

Material of insulated housing | Temperature range

Number of cross-connection channels | Test pick-off

Accessories

End plate AP

Cat. no.

Insulated cross-connector ZQI

Cat. no. 2 poles

Insulated cross-connector ZQI

Cat. no. 3 poles

Insulated cross-connector ZQI

Cat. no. 4 poles

Insulated cross-connector ZQI

Cat. no. 5 poles

Insulated cross-connector ZQI

Cat. no. 6 poles

Insulated cross-connector ZQI

Cat. no. 7 poles

Insulated cross-connector ZQI

Cat. no. 8 poles

Insulated cross-connector ZQI

Cat. no. 9 poles

Insulated cross-connector ZQI

Cat. no. 10 poles

Four-way cover ZAD

Cat. no.

End stop ZES

Cat. no.

Test adapter ZTA

Cat. no.

Screwdriver / Metal actuating tool BWMA

Cat. no.

Quick marking PMC SB

Cat. no.

PA 6.6 | -40 to +120°C

1 | 2

Page Qty.

ZAP 6/2A BG

3760.2

281 20

ZQI 6/2 YE

3763.8

309 50

ZQI 6/3 YE

3764.8

309 50

ZQI 6/4 YE

3765.8

309 20

ZQI 6/5 YE

3766.8

309 20

ZQI 6/6 YE

3767.8

309 20

ZQI 6/7 YE

3768.8

309 20

ZQI 6/8 YE

3769.8

309 10

ZQI 6/9 YE

3770.8

309 10

ZQI 6/10 YE

3771.8

309 10

ZAD 6/4/B YE

3708.0

315 20

ZES 35 BG

3748.2

275 50

ZTA 6

3772.2

321 10

SDB 0,8x4,0

1087.0

422 1

PMC SB 8/40 WH

9323.7

342 400

PA 6.6 | -40 to +120°C

0 | 2

Page Qty.

ZAP 6/2 GN

3760.1

281 20

PA 6.6 | -40 to +120°C

2 | 2

Page Qty.

ZAP 10/2A BG

3788.2

281 20

ZQI 10/2 YE

3789.8

309 20

ZAD 6/4/B YE

3708.0

315 20

ZES 35 BG

3748.2

275 50

ZTA 6

3772.2

321 10

SDB 0,8x4,0

1087.0

422 1

PMC SB 8/40 WH

9323.7

342 400

ZAD 10/4/B YE

3709.0

315 20

ZES 35 BG

3748.2

275 50

ZTA 10

3790.2

321 10

SDB 0,8x4,0

1087.0

422 1

PMC SB 8/40 WH

9323.7

342 400

ZSL 10/2A	ZRK 16/2A	ZSL 16/2A		
				
				
Protective earth terminal 2 connections	Feed-through terminal 2 connections	Protective earth terminal 2 connections		
Tension-spring 73.5 x 10.1 x 50.5	Tension-spring 81.5 x 12.1 x 51.5	Tension-spring 81.5 x 12.1 x 51.5		
Qty.	Qty.	Qty.		
ZSL 10/2A GNYE 3598.2 50	ZRK 16/2A BG 3636.2 50 ZRK 16/2A BU 3636.5 50 ZRK 16/2A OG 3636.3 50	ZSL 16/2A GNYE 3637.2 50		
IEC CSAus CSA	IEC CSAus CSA	IEC CSAus CSA		
10 16-6	16 14-4	16 14-4		
8 3	8 3	8 3		
B6 V0	A7 V0	A7 V0		
1.5-16 1.5-16	1.5-16 1.5-25	1.5-16 1.5-25		
1.5-10 1.5-10	1.5-16 1.5-16	1.5-16 1.5-16		
1.5-16	1.5-25	1.5-25		
18	18	18		
PA 6.6 -40 to +120°C	PA 6.6 -40 to +120°C	PA 6.6 -40 to +120°C		
0 2	2 2	0 2		
Page Qty.	Page Qty.	Page Qty.		
ZAP 10/2A GN 3788.1 281 20	ZAP 16/2A BG 3799.2 281 20 ZQI 16/2 YE 3800.8 309 20	ZAP 16/2A GN 3799.1 281 20		
ZAD 10/4/B YE 3709.0 315 20	ZAD 16/4/B YE 3801.0 315 20	ZAD 16/4/B YE 3801.0 315 20		
ZES 35 BG 3748.2 275 50	ZES 35 BG 3748.2 275 50	ZES 35 BG 3748.2 275 50		
ZTA 10 3790.2 321 10	ZTA 16 3810.2 321 10	ZTA 16 3810.2 321 10		
SDB 0,8x4,0 1087.0 422 1	SDB 0,8x4,0 1087.0 422 1	SDB 0,8x4,0 1087.0 422 1		
PMC SB 8/40 WH 9323.7 342 400	PMC SB 8/40 WH 9323.7 342 400	PMC SB 8/40 WH 9323.7 342 400		