

Pressure Spring Connection System

Fast - Safe - Dependable

Type of Connection

- Pressure spring principle/stainless steel
- Clear distinction between electrical and mechanical function
- Corrosion-free
- Shock-proof and maintenance-free

Advantages of the Connection Type

- easy to use
- High savings in time and costs
- Compact construction
- Handled the same way as other terminal block systems

FRK, our new terminal block system, will fulfil your demands and requirements all along the line! A carefully thought out system with ingenious accessories! Can be used in all fields of electrical engineering without restrictions, nevertheless easy to understand and functions reliably!

CONTA-CLIP FRK

- Feed-through and earth terminals in two, three, and four conductor technology
- Each feed-through terminal possesses two cross connection channels
- 2 – 10 pole cross connectors available

FRK Advantages

- Compact construction
- Savings of up to 80% wiring time
- Cross connection system can be subjected to load under nominal current and nominal voltage
- Cross connectors designed as suspension bridge or solid bridge from 2 to 10 poles, plug-in
- Label can be inserted in the centre of an unoccupied cross connection channel
- A test tap can be made through the cross connection channel

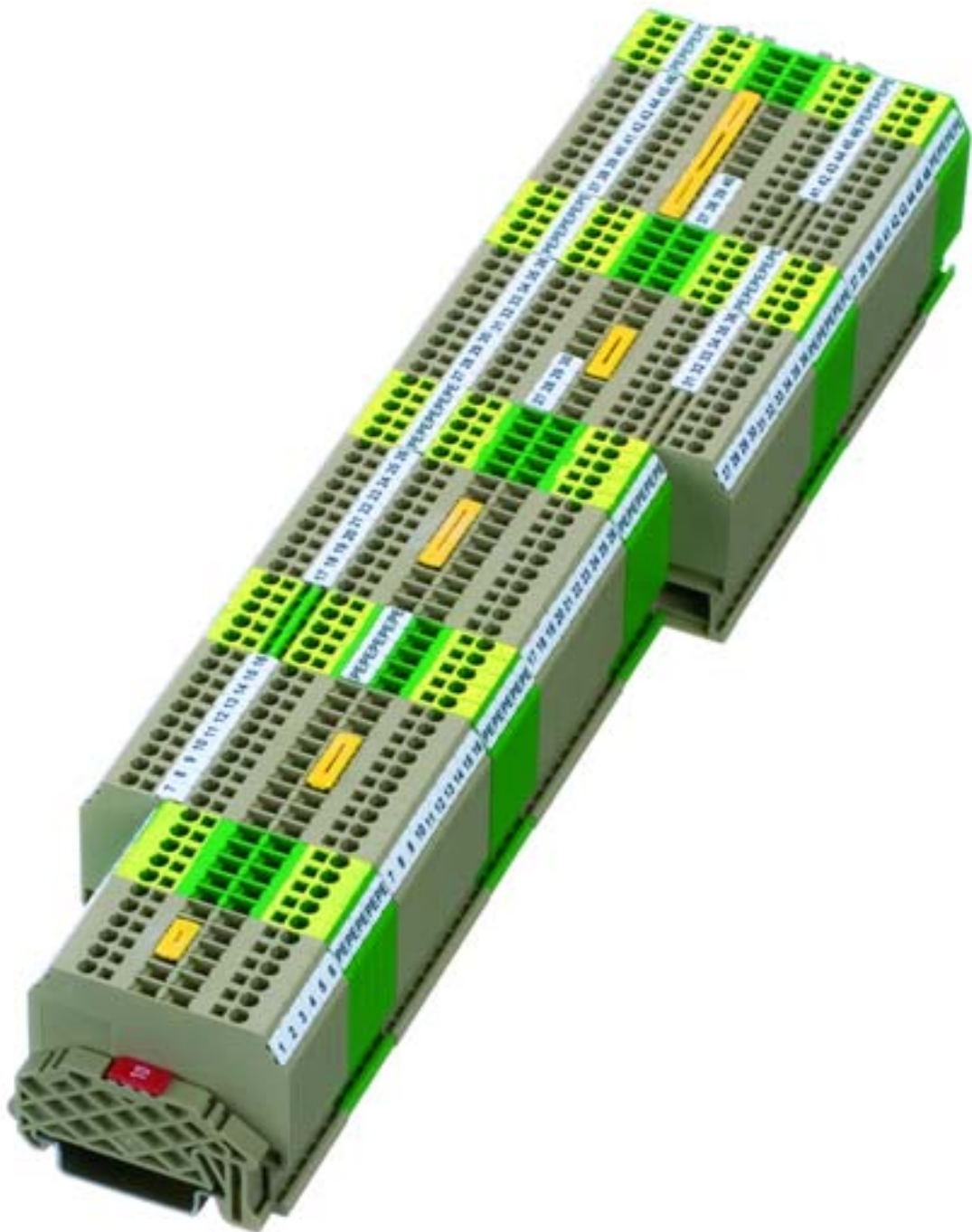
With the new pressure spring connection system FRK, **CONTA-CLIP** offers the greatest wiring comfort with maximum contact security! This connection element unites the advantages of the **CONTA-CLIP** tension spring technology with the idea of making it possible to connect individual wires without tools!

Massive conductors or stranded conductors with ferrules can be inserted directly at the clamping point. Contact with the contact rail is established automatically when the wire is inserted. Flexible wires without ferrules can be inserted or the wire can be disconnected with the help of a screw-driver.

FRK, thus, effectively rounds off the delivery programme for screw technology and tension spring technology from the **CONTA-CLIP** company.

Pressure Spring Connection System

Fast - Safe - Dependable



Feed-through terminals

Pressure spring connection system



Insulating terminal housing PA 6.6 V0
Rail mount TS 35

Connection diagram

FRK 1,5/2A	FRK 1,5/3A	FRK 1,5/4A	FRK 2,5/2A
Feed-through terminal 2 connectors	Feed-through terminal 3 connectors	Feed-through terminal 4 connectors	Feed-through terminal 2 connectors

Connection type

Dimension (L x W x H)

with TS 35 x 7,5 mm

Type

Type/Colour

Cat. no./Qty. p. pck.

Type/Colour

Cat. no./Qty. p. pck.

Type/Colour

Cat. no./Qty. p. pck.

Rating

Rated voltage V

Rated current A

Rated conductor cross-section mm²/AWG

Rated surge voltage kV/Contamination degree

Gauge plug acc. to EN 60947-1 / Flammability class UL 94

For certifications and approvals

Conductor data

Single wire (solid)/Stranded (flexible) mm²

Flexible/Flexible (with ADH acc. to DIN 46 228/1) mm²

Contact wire range mm²

Insulation stripping length mm

Features

Number of cross connection channels

Test pick-off feature

Accessories

End plate FAP

Cat. no./Qty. p. pck. beige

Cat. no./Qty. p. pck. blue

Cat. no./Qty. p. pck. orange

Insulated cross connector FQI 2 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 3 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 4 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 5 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 6 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 7 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 8 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 9 poles

Cat. no./Qty. p. pck.

Insulated cross connector FQI 10 poles

Cat. no./Qty. p. pck.

Screw driver

Cat. no./Qty. p. pck.

Further accessories

Further accessories like marking systems, test adapters, covers, end brackets etc. you can find on the pages for accessories specified below!

* Applies

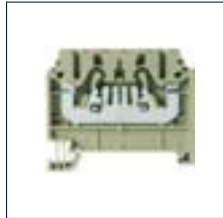
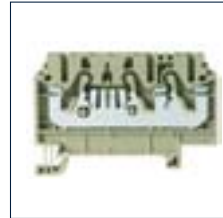
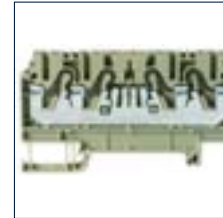
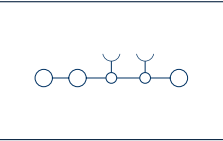
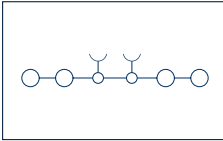
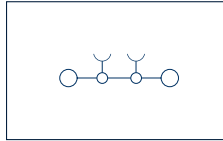
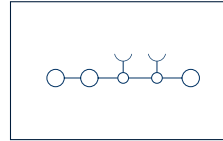
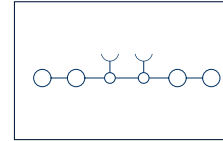
Pressure spring system	Pressure spring system	Pressure spring system	Pressure spring system
48,5 x 4,1 x 43	59,5 x 4,1 x 43	72,2 x 4,1 x 43	48,5 x 5,1 x 43
FRK 1,5/2A beige 3200.2/100	FRK 1,5/3A beige 3201.2/100	FRK 1,5/4A beige 3202.2/100	FRK 2,5/2A beige 3210.2/100
FRK 1,5/2A blue 3200.5/100	FRK 1,5/3A blue 3201.5/100	FRK 1,5/4A blue 3202.5/100	FRK 2,5/2A blue 3210.5/100
FRK 1,5/2A orange 3200.3/100	FRK 1,5/3A orange 3201.3/100	FRK 1,5/4A orange 3202.3/100	FRK 2,5/2A orange 3210.3/100
IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*
800 600 600	800 600 600	800 600 600	800 600 600
17,5 12,5 12,5	17,5 12,5 12,5	17,5 12,5 12,5	24 27 27
1,5 / 28-16	1,5 / 28-16	1,5 / 28-16	2,5 / 26-12
8 kV / 3	8 kV / 3	8 kV / 3	8 kV / 3
A1 / V0	A1 / V0	A1 / V0	A3 / V0
see page 302	see page 302	see page 302	see page 302
0,5-1,5 / -	0,5-1,5 / -	0,5-1,5 / -	0,5-4 / -
0,5-1,5 / 0,5-1,5	0,5-1,5 / 0,5-1,5	0,5-1,5 / 0,5-1,5	0,5-4 / 0,5-2,5
0,08-1,5	0,08-1,5	0,08-1,5	0,08-4
12	12	12	12
2	2	2	2
FAP 1,5-4/2A 3400.2/20	FAP 1,5/3A 3401.2/20	FAP 1,5/4A 3402.2/20	FAP 1,5-4/2A 3400.2/20
3400.5/20	3401.5/20	3402.5/20	3400.5/20
3400.3/20	3401.3/20	3402.3/20	3400.3/20
FQI 1,5/2 3452.8/50	FQI 1,5/2 3452.8/50	FQI 1,5/2 3452.8/50	FQI 2,5/2 3462.8/50
FQI 1,5/3 3453.8/50	FQI 1,5/3 3453.8/50	FQI 1,5/3 3453.8/50	FQI 2,5/3 3463.8/50
FQI 1,5/4 3454.8/20	FQI 1,5/4 3454.8/20	FQI 1,5/4 3454.8/20	FQI 2,5/4 3464.8/20
FQI 1,5/5 3455.8/20	FQI 1,5/5 3455.8/20	FQI 1,5/5 3455.8/20	FQI 2,5/5 3465.8/20
FQI 1,5/6 3456.8/20	FQI 1,5/6 3456.8/20	FQI 1,5/6 3456.8/20	FQI 2,5/6 3466.8/20
FQI 1,5/7 3457.8/20	FQI 1,5/7 3457.8/20	FQI 1,5/7 3457.8/20	FQI 2,5/7 3467.8/20
FQI 1,5/8 3458.8/10	FQI 1,5/8 3458.8/10	FQI 1,5/8 3458.8/10	FQI 2,5/8 3468.8/10
FQI 1,5/9 3459.8/10	FQI 1,5/9 3459.8/10	FQI 1,5/9 3459.8/10	FQI 2,5/9 3469.8/10
FQI 1,5/10 3450.8/10	FQI 1,5/10 3450.8/10	FQI 1,5/10 3450.8/10	FQI 2,5/10 3460.8/10
SDB 0,4 x 2 3164.0/1	SDB 0,4 x 2 3164.0/1	SDB 0,4 x 2 3164.0/1	SDB 0,5 x 3,0 1085.0/1

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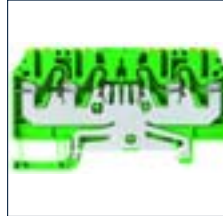
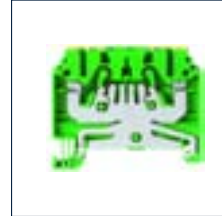
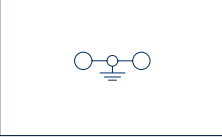
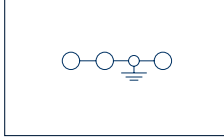
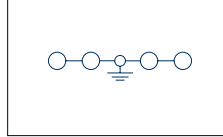
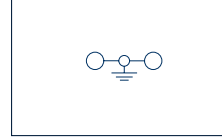
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FRK 2,5/3A	FRK 2,5/4A	FRK 4/2A	FRK 4/3A	FRK 4/4A	
					
					
Feed-through terminal 3 connectors	Feed-through terminal 4 connectors	Feed-through terminal 2 connectors	Feed-through terminal 3 connectors	Feed-through terminal 4 connectors	
Pressure spring system	Pressure spring system	Pressure spring system	Pressure spring system	Pressure spring system	
63,1 x 5,1 x 43	77,7 x 5,1 x 43	48,5 x 6,1 x 43	64,3 x 6,1 x 43	80 x 6,1 x 43	
FRK 2,5/3A beige 3211.2/100	FRK 2,5/4A beige 3212.2/100	FRK 4/2A beige 3220.2/100	FRK 4/3A beige 3221.2/100	FRK 4/4A beige 3222.2/100	
FRK 2,5/3A blue 3211.5/100	FRK 2,5/4A blue 3212.5/100	FRK 4/2A blue 3220.5/100	FRK 4/3A blue 3221.5/100	FRK 4/4A blue 3222.5/100	
FRK 2,5/3A orange 3211.3/100	FRK 2,5/4A orange 3212.3/100	FRK 4/2A orange 3220.3/100	FRK 4/3A orange 3221.3/100	FRK 4/4A orange 3222.3/100	
IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*	
800 600 600	800 600 600	800 600 600	800 600 600	800 600 600	
24 27 27	24 27 27	32 35 35	32 35 35	32 35 35	
2,5 / 26-12	2,5 / 26-12	4 / 26-10	4 / 26-10	4 / 26-10	
8 kV / 3	8 kV / 3	8 kV / 3	8 kV / 3	8 kV / 3	
A3 / V0	A3 / V0	A4 / V0	A4 / V0	A4 / V0	
see page 302	see page 302	see page 302	see page 302	see page 302	
0,5-4 / -	0,5-4 / -	0,5-6 / -	0,5-6 / -	0,5-6 / -	
0,5-4 / 0,5-2,5	0,5-4 / 0,5-2,5	0,5-6 / 0,5-4	0,5-6 / 0,5-4	0,5-6 / 0,5-4	
0,08-4	0,08-4	0,08-6	0,08-6	0,08-6	
12	12	12	12	12	
2	2	2	2	2	
FAP 2,5/3A 3411.2/20	FAP 2,5/4A 3412.2/20	FAP 1,5-4/2A 3400.2/20	FAP 4/3A 3421.2/20	FAP 4/4A 3422.2/20	
3411.5/20	3412.5/20	3400.5/20	3421.5/20	3422.5/20	
3411.3/20	3412.3/20	3400.3/20	3421.3/20	3422.3/20	
FQI 2,5/2 3462.8/50	FQI 2,5/2 3462.8/50	FQI 4/2 3472.8/50	FQI 4/2 3472.8/50	FQI 4/2 3472.8/50	
FQI 2,5/3 3463.8/50	FQI 2,5/3 3463.8/50	FQI 4/3 3473.8/50	FQI 4/3 3473.8/50	FQI 4/3 3473.8/50	
FQI 2,5/4 3464.8/20	FQI 2,5/4 3464.8/20	FQI 4/4 3474.8/20	FQI 4/4 3474.8/20	FQI 4/4 3474.8/20	
FQI 2,5/5 3465.8/20	FQI 2,5/5 3465.8/20	FQI 4/5 3475.8/20	FQI 4/5 3475.8/20	FQI 4/5 3475.8/20	
FQI 2,5/6 3466.8/20	FQI 2,5/6 3466.8/20	FQI 4/6 3476.8/20	FQI 4/6 3476.8/20	FQI 4/6 3476.8/20	
FQI 2,5/7 3467.8/20	FQI 2,5/7 3467.8/20	FQI 4/7 3477.8/20	FQI 4/7 3477.8/20	FQI 4/7 3477.8/20	
FQI 2,5/8 3468.8/10	FQI 2,5/8 3468.8/10	FQI 4/8 3478.8/10	FQI 4/8 3478.8/10	FQI 4/8 3478.8/10	
FQI 2,5/9 3469.8/10	FQI 2,5/9 3469.8/10	FQI 4/9 3479.8/10	FQI 4/9 3479.8/10	FQI 4/9 3479.8/10	
FQI 2,5/10 3460.8/10	FQI 2,5/10 3460.8/10	FQI 4/10 3470.8/10	FQI 4/10 3470.8/10	FQI 4/10 3470.8/10	
SDB 0,5 x 3,0 1085.0/1	SDB 0,5 x 3,0 1085.0/1	SDB 0,6 x 3,5 1086.0/1	SDB 0,6 x 3,5 1086.0/1	SDB 0,6 x 3,5 1086.0/1	
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Earth terminals

Pressure spring connection system	FSL 1,5/2A	FSL 1,5/3A	FSL 1,5/4A	FSL 2,5/2A
 <p>Insulating terminal housing PA 6.6 V0 Rail mount TS 35</p>				
Connection diagram				
	Earth terminal 2 connectors	Earth terminal 3 connectors	Earth terminal 4 connectors	Earth terminal 2 connectors
Connection type	Pressure spring system	Pressure spring system	Pressure spring system	Pressure spring system
Dimension (L x W x H) with TS 35 x 7,5 mm	48,5 x 4,1 x 43	59,5 x 4,1 x 43	72,2 x 4,1 x 43	48,5 x 5,1 x 43
Type	FSL 1,5/2A	FSL 1,5/3A	FSL 1,5/4A	FSL 2,5/2A
Cat. no./Qty. p. pck.	3203.2/100	3204.2/100	3205.2/100	3213.2/100
Rating	IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*	IEC UL* CSA*
Rated voltage V				
Rated current A				
Rated conductor cross-section mm ² /AWG	1,5 28-16	1,5 28-16	1,5 28-16	2,5 26-12
Rated surge voltage kV/Contamination degree	8 3	8 3	8 3	8 3
Gauge plug acc. to EN 60947-1 / Flammability class UL 94	A1 V0	A1 V0	A1 V0	A3 V0
For certifications and approvals	see page 302	see page 302	see page 302	see page 302
Conductor data				
Single wire (solid)/Stranded (flexible) mm ²	0,5-1,5 -	0,5-1,5 -	0,5-1,5 -	0,5-4 -
Flexible/Flexible (with ADH acc. to DIN 46228/1) mm ²	0,5-1,5 0,5-1,5	0,5-1,5 0,5-1,5	0,5-1,5 0,5-1,5	0,5-4 0,5-2,5
Contact wire range mm ²	0,08-1,5	0,08-1,5	0,08-1,5	0,08-4
Insulation stripping length mm	12	12	12	12
Features				
Number of cross connection channels				
Test pick-off feature				
Accessories				
End plate FAP	FAP 1,5-4/2A	FAP 1,5/3A	FAP 1,5/4A	FAP 1,5-4/2A
Cat. no./Qty. p. pck. green	3400.1/20	3401.1/20	3402.1/20	3400.1/20
Screw driver	SDB 0,4 x 2	SDB 0,4 x 2	SDB 0,4 x 2	SDB 0,5 x 3,0
Cat. no./Qty. p. pck.	3164.0/1	3164.0/1	3164.0/1	1085.0/1
Further accessories				
Further accessories like marking systems, test adapters, covers, end brackets etc. you can find on the pages for accessories specified below!	Page 20	Page 20	Page 20	Page 20

* Applies

Accessories Specific to the Pressure Spring Connection System

The FRK accessories are carefully thought out and developed for the user. Numerous technical applications can be realized with a minimal investment in accessories.

Cross connections FQI (Potential Distribution)

The cross connections of the pressure spring connection system are insulated plug-in models. They offer the possibility of conducting the nominal current of the respective cross section range. Due to the construction of the terminal blocks and the variability of the cross connections, a high measure of flexibility is given.



Potential Feed-in

Using pressure spring connectors with a larger cross section, areas with smaller cross sections can be fed into. This allows an easy distribution of different potential and cross section levels.



Pressure Spring Connection System Colour Variations

All **FRK** terminal blocks are available in various standard colours.



End Plates / Visual Division

In order to make a transition from a larger to a smaller size terminal block or to switch at the end of a terminal block, an end plate must be installed. In addition, **FAPs** influence airways and leakage paths. The potentials can be marked visually using the various choice of colours.



Accessories Specific to the Pressure Spring Connection System

Marking

The marking / identification of the pressure spring terminal blocks can be carried out using different marking systems. **SB, PMC, BSTR** and **MC** are available with standard print (neutral) or without. A number of group marking carriers are included in the delivery for marking manufactured terminal blocks.
(see General Accessories chapter on page 170)

Mechanical Attachment

The pressure spring terminal blocks must be fixed mechanically on the mounting rails at both outer ends. For this purpose **CONTA-CLIP** offers a large number of screw-on and click-on end brackets, on which group marking carriers can be attached for clear identification.
(see General Accessories chapter on page 168)



Accessories Specific to the Pressure Spring Connection System

FQI Cross Connections (Potential Distribution)

The FQI plug-in cross connection system allows the time-saving distribution of potentials through terminal blocks of the same or different cross section ranges. FQI is a plug-in model and offers the advantage of being able to conduct the nominal current when the rated voltage is limited to 400 V! FQI is protected against contact and is available with 2 to 10 poles.

Different potentials can be conducted parallel in the 1.5 mm², 2.5 mm² and 4 mm² cross section ranges without the loss of poles.

Contact terminals can generally be skipped by breaking out individual contact elements in the standard contact terminals.

In order to distinguish between different potentials, the cross connectors **FQI 1.5**; **FQI 2.5** and **FQI 4** are also available in different colours.



Accessories Specific to the Pressure Spring Connection System

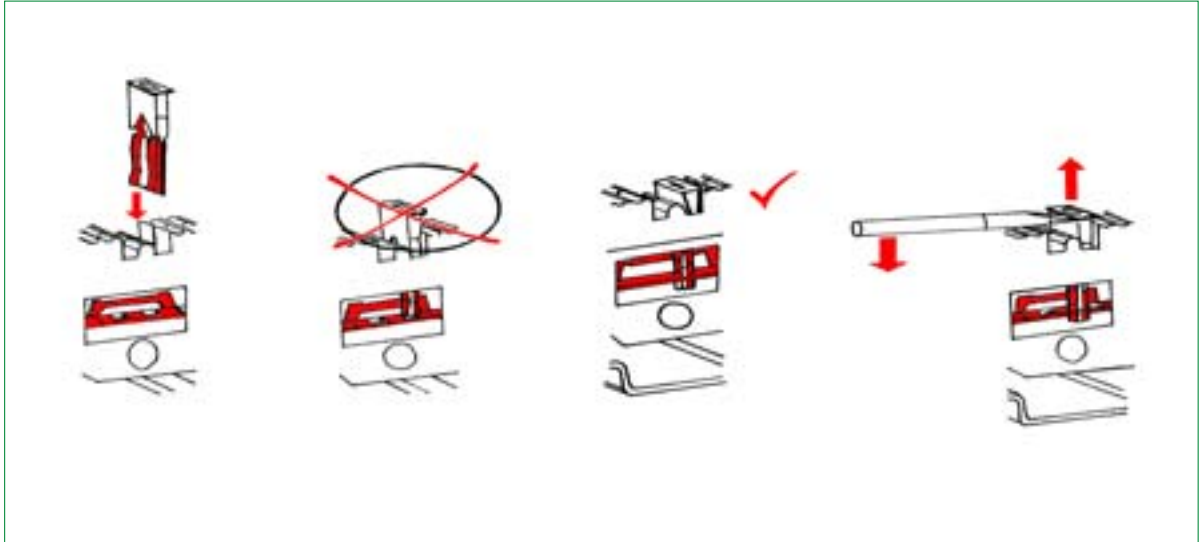
FQI Cross Connections (Potential Distribution)

Handling

Assembly of cross connectors **FQI**

Positioning of cross connectors **FQI**

Disassembly of cross connectors **FQI**



In one cross connection channel

single



adjacent



skipping



In two cross connection channels

parallel/ skipping



parallel/extending



Chain jumper



Accessories Specific to the Pressure Spring Connection System

FQI Cross Connections (Potential Distribution)

Overview of the available cross connectors in the pressure spring connection system.

Up to 20 terminal blocks can be connected to each other individually with the cross connectors listed here. Besides its flexibility, this system is distinguished by savings in the assembly time and the associated reduction in costs.

FQI 1,5/...



Type	max. voltage	max. current	Qty. p. pck.	Cat. no. yellow	Cat. no. red	Cat. no. blue	Cat. no. schwarz
FQI 1,5/2	800 V	17,5 A	50	3452.8	3452.9	3452.5	3452.4
FQI 1,5/3	800 V	17,5 A	50	3453.8	3453.9	3453.5	3453.4
FQI 1,5/4	800 V	17,5 A	20	3454.8	3454.9	3454.5	3454.4
FQI 1,5/5	800 V	17,5 A	20	3455.8	3455.9	3455.5	3455.4
FQI 1,5/6	800 V	17,5 A	20	3456.8	3456.9	3456.5	3456.4
FQI 1,5/7	800 V	17,5 A	20	3457.8	3457.9	3457.5	3457.4
FQI 1,5/8	800 V	17,5 A	10	3458.8	3458.9	3458.5	3458.4
FQI 1,5/9	800 V	17,5 A	10	3459.8	3459.9	3459.5	3459.4
FQI 1,5/10	800 V	17,5 A	10	3450.8	3450.9	3450.5	3450.4

For terminal FRK 1,5...

FQI 2,5/...



Type	max. voltage	max. current	Qty. p. pck.	Cat. no. yellow	Cat. no. red	Cat. no. blue	Cat. no. black
FQI 2,5/2	800 V	24 A	50	3462.8	3462.9	3462.5	3462.4
FQI 2,5/3	800 V	24 A	50	3463.8	3463.9	3463.5	3463.4
FQI 2,5/4	800 V	24 A	20	3464.8	3464.9	3464.5	3464.4
FQI 2,5/5	800 V	24 A	20	3465.8	3465.9	3465.5	3465.4
FQI 2,5/6	800 V	24 A	20	3466.8	3466.9	3466.5	3466.4
FQI 2,5/7	800 V	24 A	20	3467.8	3467.9	3467.5	3467.4
FQI 2,5/8	800 V	24 A	10	3468.8	3468.9	3468.5	3468.4
FQI 2,5/9	800 V	24 A	10	3469.8	3469.9	3469.5	3469.4
FQI 2,5/10	800 V	24 A	10	3460.8	3460.9	3460.5	3460.4

For terminal FRK 2,5...

FQI 4/...



Type	max. voltage	max. current	Qty. p. pck.	Cat. no. yellow	Cat. no. red	Cat. no. blue	Cat. no. black
FQI 4/2	800 V	32 A	50	3472.8	3472.9	3472.5	3472.4
FQI 4/3	800 V	32 A	50	3473.8	3473.9	3473.5	3473.4
FQI 4/4	800 V	32 A	20	3474.8	3474.9	3474.5	3474.4
FQI 4/5	800 V	32 A	20	3475.8	3475.9	3475.5	3475.4
FQI 4/6	800 V	32 A	20	3476.8	3476.9	3476.5	3476.4
FQI 4/7	800 V	32 A	20	3477.8	3477.9	3477.5	3477.4
FQI 4/8	800 V	32 A	10	3478.8	3478.9	3478.5	3478.4
FQI 4/9	800 V	32 A	10	3479.8	3479.9	3479.5	3479.4
FQI 4/10	800 V	32 A	10	3470.8	3470.9	3470.5	3470.4

For terminal FRK 4...

Accessories Specific to the Pressure Spring Connection System

FQI Cross Connectors (Potential Input)

The **FQI** plug-in cross connection system allows the time-saving distribution of potentials through terminal blocks of the same or different cross section ranges.

FQI is a plug-in model and offers the advantage that the nominal current can be conducted below the rated voltage V!

FQI is protected against contact and is available with 2 to 10 poles.

By breaking out individual contact elements, different potentials can be conducted parallel and terminal blocks can be skipped without the loss of poles.

Input by	Outgoing unit	Input at the start LH	Input at the end RH	
FRK 1,5/2A (3200...)	FRK 1,5/2A (3200...)	FQI 1,5/...	1,5/...	
	FRK 1,5/3A (3201...)	FQI 1,5/...	not possible	
	FRK 1,5/4A (3202...)	FQI 1,5/...	not possible	
	FRK 2,5/2A (3210...)	FQI 1,5/2	FQI 1,5/2	
	FRK 2,5/3A (3211...)	FQI 1,5/2	not possible	
	FRK 2,5/4A (3212...)	FQI 1,5/2	not possible	
	FRK 4/2A (3220...)	not possible	not possible	
	FRK 4/3A (3221...)	not possible	not possible	
	FRK 4/4A (3222...)	not possible	not possible	
	FRK 1,5/3A (3201...)	FRK 1,5/2A (3200...)	not possible	FQI 1,5/...
FRK 1,5/3A (3201...)	FRK 1,5/3A (3201...)	FQI 1,5/...	FQI 1,5/...	
	FRK 1,5/4A (3202...)	FQI 1,5/...	not possible	
	FRK 2,5/2A (3210...)	not possible	FQI 1,5/2	
	FRK 2,5/3A (3211...)	FQI 1,5/2	FQI 1,5/2	
	FRK 2,5/4A (3212...)	FQI 1,5/2	not possible	
	FRK 4/2A (3220...)	not possible	not possible	
	FRK 4/3A (3221...)	not possible	not possible	
	FRK 4/4A (3222...)	not possible	not possible	
	FRK 1,5/4A (3202...)	FRK 1,5/2A (3200...)	not possible	FQI 1,5/...
	FRK 1,5/4A (3202...)	FRK 1,5/3A (3201...)	not possible	FQI 1,5/...
FRK 1,5/4A (3202...)		FQI 1,5/...	FQI 1,5/...	
FRK 2,5/2A (3210...)		not possible	FQI 1,5/2	
FRK 2,5/3A (3211...)		not possible	FQI 1,5/2	
FRK 2,5/4A (3212...)		FQI 1,5/2	FQI 1,5/2	
FRK 4/2A (3220...)		not possible	not possible	
FRK 4/3A (3221...)		not possible	not possible	
FRK 4/4A (3222...)		not possible	not possible	
FRK 2,5/2A (3210...)		FRK 1,5/2A (3200...)	FQI 1,5/...	FQI 1,5/...
FRK 2,5/2A (3210...)		FRK 1,5/3A (3201...)	FQI 1,5/...	not possible
	FRK 1,5/4A (3202...)	FQI 1,5/...	not possible	
	FRK 2,5/2A (3210...)	FQI 2,5/...	FQI 2,5/...	
	FRK 2,5/3A (3211...)	FQI 2,5/...	not possible	
	FRK 2,5/4A (3212...)	FQI 2,5/...	not possible	
	FRK 4/2A (3220...)	FQI 2,5/2	FQI 2,5/2	
	FRK 4/3A (3221...)	FQI 2,5/2	not possible	
	FRK 4/4A (3222...)	FQI 2,5/2	not possible	
	FRK 1,5/3A (3201...)	FRK 1,5/2A (3200...)	not possible	FQI 1,5/...
	FRK 2,5/3A (3211...)	FRK 1,5/3A (3201...)	FQI 1,5/...	FQI 1,5/...
FRK 1,5/4A (3202...)		FQI 1,5/...	not possible	
FRK 2,5/2A (3210...)		not possible	FQI 2,5/...	
FRK 2,5/3A (3211...)		FQI 2,5/...	FQI 2,5/...	
FRK 2,5/4A (3212...)		FQI 2,5/...	not possible	
FRK 4/2A (3220...)		not possible	FQI 2,5/2	
FRK 4/3A (3221...)		FQI 2,5/2	FQI 2,5/2	
FRK 4/4A (3222...)		FQI 2,5/2	not possible	
FRK 2,5/4A (3212...)		FRK 1,5/2A (3200...)	not possible	FQI 1,5/...
FRK 2,5/4A (3212...)		FRK 1,5/3A (3201...)	not possible	FQI 1,5/...
	FRK 1,5/4A (3202...)	FQI 1,5/...	FQI 1,5/...	
	FRK 2,5/2A (3210...)	not possible	FQI 2,5/...	
	FRK 2,5/3A (3211...)	not possible	FQI 2,5/...	
	FRK 2,5/4A (3212...)	FQI 2,5/...	FQI 2,5/...	
	FRK 4/2A (3220...)	not possible	FQI 2,5/2	
	FRK 4/3A (3221...)	not possible	FQI 2,5/2	
	FRK 4/4A (3222...)	FQI 2,5/2	FQI 2,5/2	
	FRK 4/2A (3220...)	FRK 1,5/2A (3200...)	not possible	not possible
	FRK 4/2A (3220...)	FRK 1,5/3A (3201...)	not possible	not possible
FRK 1,5/4A (3202...)		not possible	not possible	
FRK 2,5/2A (3210...)		FQI 2,5/...	FQI 2,5/...	
FRK 2,5/3A (3211...)		FQI 2,5/...	not possible	
FRK 2,5/4A (3212...)		FQI 2,5/...	not possible	
FRK 4/2A (3220...)		FQI 4/...	FQI 4/...	
FRK 4/3A (3221...)		FQI 4/...	not possible	
FRK 4/4A (3222...)		FQI 4/...	not possible	
FRK 1,5/2A (3200...)		FRK 1,5/3A (3201...)	not possible	not possible
FRK 4/3A (3221...)		FRK 1,5/3A (3201...)	not possible	not possible
	FRK 1,5/4A (3202...)	not possible	not possible	
	FRK 2,5/2A (3210...)	not possible	FQI 2,5/...	
	FRK 2,5/3A (3211...)	FQI 2,5/...	FQI 2,5/...	
	FRK 2,5/4A (3212...)	FQI 2,5/...	not possible	
	FRK 4/2A (3220...)	not possible	FQI 4/...	
	FRK 4/3A (3221...)	FQI 4/...	FQI 4/...	
	FRK 4/4A (3222...)	FQI 4/...	not possible	
	FRK 1,5/2A (3200...)	FRK 1,5/3A (3201...)	not possible	not possible
	FRK 4/4A (3222...)	FRK 1,5/3A (3201...)	not possible	not possible
FRK 1,5/4A (3202...)		not possible	not possible	
FRK 2,5/2A (3210...)		not possible	FQI 2,5/...	
FRK 2,5/3A (3211...)		not possible	FQI 2,5/...	
FRK 2,5/4A (3212...)		FQI 2,5/...	FQI 2,5/...	
FRK 4/2A (3220...)		not possible	FQI 4/...	
FRK 4/3A (3221...)		not possible	FQI 4/...	
FRK 4/4A (3222...)		FQI 4/...	FQI 4/...	

Accessories Specific to the Pressure Spring Connection System

Pressure Spring Connection System Colour Variations

The following colour variations are standard colour variations. Upon request, individual colour variations can also be obtained, provided that the defined minimum purchasing quantity is observed.

Type	Cat. no.	Colour	Qty. p. pck.	Technical Data
FRK 1,5/2A beige	3200.2	beige	100	see page 16
FRK 1,5/2A blue	3200.5	blue	100	see page 16
FRK 1,5/2A orange	3200.3	orange	100	see page 16
FRK 1,5/2A green	3200.1	green	100	see page 16
FRK 1,5/2A red	3200.9	red	100	see page 16
FRK 1,5/2A yellow	3200.8	yellow	100	see page 16
FRK 1,5/3A beige	3201.2	beige	100	see page 16
FRK 1,5/3A blue	3201.5	blue	100	see page 16
FRK 1,5/3A orange	3201.3	orange	100	see page 16
FRK 1,5/3A green	3201.1	green	100	see page 16
FRK 1,5/3A red	3201.9	red	100	see page 16
FRK 1,5/3A yellow	3201.8	yellow	100	see page 16
FRK 1,5/4A beige	3202.2	beige	100	see page 16
FRK 1,5/4A blue	3202.5	blue	100	see page 16
FRK 1,5/4A orange	3202.3	orange	100	see page 16
FRK 1,5/4A green	3202.1	green	100	see page 16
FRK 1,5/4A red	3202.9	red	100	see page 16
FRK 1,5/4A yellow	3202.8	yellow	100	see page 16
FRK 2,5/2A beige	3210.2	beige	100	see page 16
FRK 2,5/2A blue	3210.5	blue	100	see page 16
FRK 2,5/2A orange	3210.3	orange	100	see page 16
FRK 2,5/2A green	3210.1	green	100	see page 16
FRK 2,5/2A red	3210.9	red	100	see page 16
FRK 2,5/2A yellow	3210.8	yellow	100	see page 16
FRK 2,5/3A beige	3211.2	beige	100	see page 17
FRK 2,5/3A blue	3211.5	blue	100	see page 17
FRK 2,5/3A orange	3211.3	orange	100	see page 17
FRK 2,5/3A green	3211.1	green	100	see page 17
FRK 2,5/3A red	3211.9	red	100	see page 17
FRK 2,5/3A yellow	3211.8	yellow	100	see page 17
FRK 2,5/4A beige	3212.2	beige	100	see page 17
FRK 2,5/4A blue	3212.5	blue	100	see page 17
FRK 2,5/4A orange	3212.3	orange	100	see page 17
FRK 2,5/4A green	3212.1	green	100	see page 17
FRK 2,5/4A red	3212.9	red	100	see page 17
FRK 2,5/4A yellow	3212.8	yellow	100	see page 17
FRK 4/2A beige	3220.2	beige	100	see page 17
FRK 4/2A blue	3220.5	blue	100	see page 17
FRK 4/2A orange	3220.3	orange	100	see page 17
FRK 4/2A green	3220.1	green	100	see page 17
FRK 4/2A red	3220.9	red	100	see page 17
FRK 4/2A yellow	3220.8	yellow	100	see page 17
FRK 4/3A beige	3221.2	beige	100	see page 17
FRK 4/3A blue	3221.5	blue	100	see page 17
FRK 4/3A orange	3221.3	orange	100	see page 17
FRK 4/3A green	3221.1	green	100	see page 17
FRK 4/3A red	3221.9	red	100	see page 17
FRK 4/3A yellow	3221.8	yellow	100	see page 17
FRK 4/4A beige	3222.2	beige	100	see page 17
FRK 4/4A blue	3222.5	blue	100	see page 17
FRK 4/4A orange	3222.3	orange	100	see page 17
FRK 4/4A green	3222.1	green	100	see page 17
FRK 4/4A red	3222.9	red	100	see page 17
FRK 4/4A yellow	3222.8	yellow	100	see page 17



Accessories Specific to the Pressure Spring Connection System

End Plates / Visual Division

FAP end plates are usually inserted at the end of a clamp point. If work is carried out within a terminal block with different / various sized terminal blocks, end plates must also be inserted in order to ensure contact protection and the safety of the fingers.

The outer dimensions of the end plates correspond to the dimensions of the terminal blocks.

Coloured end plates are often inserted in order to mark a clear distinction between different power circuits or voltage levels.

In addition, the use of end plates lengthens the airways and leakage paths, which in turn influence the rated voltage.

Rapid installation of the end plates is enabled by notched plugs.

Due to the special construction of the **FRK** series, no end plates must be inserted for adjacent cross connectors with different potentials.



Type	Cat. no.	Colour	Width	Qty. p. pck./pcs.	For terminals
FAP 1,5-4/2A	3400.2	beige	1,5 mm	20	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
FAP 1,5-4/2A	3400.5	blue	1,5 mm	20	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
FAP 1,5-4/2A	3400.3	orange	1,5 mm	20	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
FAP 1,5-4/2A	3400.1	green	1,5 mm	20	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
FAP 1,5-4/2A	3400.9	red	1,5 mm	20	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
FAP 1,5-4/2A	3400.8	yellow	1,5 mm	20	FRK 1,5/2A, FSL 1,5/2A FRK 2,5/2A, FSL 2,5/2A FRK 4/2A, FSL 4/2A
FAP 1,5/3A	3401.2	beige	1,5 mm	20	FRK 1,5/3A, FSL 1,5/3A
FAP 1,5/3A	3401.5	blue	1,5 mm	20	FRK 1,5/3A, FSL 1,5/3A
FAP 1,5/3A	3401.3	orange	1,5 mm	20	FRK 1,5/3A, FSL 1,5/3A
FAP 1,5/3A	3401.1	green	1,5 mm	20	FRK 1,5/2A, FSL 1,5/3A
FAP 1,5/3A	3401.9	red	1,5 mm	20	FRK 1,5/3A, FSL 1,5/3A
FAP 1,5/3A	3401.8	yellow	1,5 mm	20	FRK 1,5/2A, FSL 1,5/3A
FAP 1,5/4A	3402.2	beige	1,5 mm	20	FRK 1,5/4A, FSL 1,5/4A
FAP 1,5/4A	3402.5	blue	1,5 mm	20	FRK 1,5/4A, FSL 1,5/4A
FAP 1,5/4A	3402.3	orange	1,5 mm	20	FRK 1,5/4A, FSL 1,5/4A
FAP 1,5/4A	3402.1	green	1,5 mm	20	FRK 1,5/2A, FSL 1,5/4A
FAP 1,5/4A	3402.9	red	1,5 mm	20	FRK 1,5/4A, FSL 1,5/4A
FAP 1,5/4A	3402.8	yellow	1,5 mm	20	FRK 1,5/2A, FSL 1,5/4A
FAP 2,5/3A	3411.2	beige	1,5 mm	20	FRK 2,5/3A, FSL 2,5/3A
FAP 2,5/3A	3411.5	blue	1,5 mm	20	FRK 2,5/3A, FSL 2,5/3A
FAP 2,5/3A	3411.3	orange	1,5 mm	20	FRK 2,5/3A, FSL 2,5/3A
FAP 2,5/3A	3411.1	green	1,5 mm	20	FRK 2,5/3A, FSL 2,5/3A
FAP 2,5/3A	3411.9	red	1,5 mm	20	FRK 2,5/3A, FSL 2,5/3A
FAP 2,5/3A	3411.8	yellow	1,5 mm	20	FRK 2,5/3A, FSL 2,5/3A
FAP 2,5/4A	3412.2	beige	1,5 mm	20	FRK 2,5/4A, FSL 2,5/4A
FAP 2,5/4A	3412.5	blue	1,5 mm	20	FRK 2,5/4A, FSL 2,5/4A
FAP 2,5/4A	3412.3	orange	1,5 mm	20	FRK 2,5/4A, FSL 2,5/4A
FAP 2,5/4A	3412.1	green	1,5 mm	20	FRK 2,5/4A, FSL 2,5/4A
FAP 2,5/4A	3412.9	red	1,5 mm	20	FRK 2,5/4A, FSL 2,5/4A
FAP 2,5/4A	3412.8	yellow	1,5 mm	20	FRK 2,5/4A, FSL 2,5/4A
FAP 4/3A	3421.2	beige	1,5 mm	20	FRK 4/3A, FSL 4/3A
FAP 4/3A	3421.5	blue	1,5 mm	20	FRK 4/3A, FSL 4/3A
FAP 4/3A	3421.3	orange	1,5 mm	20	FRK 4/3A, FSL 4/3A
FAP 4/3A	3421.1	green	1,5 mm	20	FRK 4/3A, FSL 4/3A
FAP 4/3A	3421.9	red	1,5 mm	20	FRK 4/3A, FSL 4/3A
FAP 4/3A	3421.8	yellow	1,5 mm	20	FRK 4/3A, FSL 4/3A
FAP 4/4A	3422.2	beige	1,5 mm	20	FRK 4/4A, FSL 4/4A
FAP 4/4A	3422.5	blue	1,5 mm	20	FRK 4/4A, FSL 4/4A
FAP 4/4A	3422.3	orange	1,5 mm	20	FRK 4/4A, FSL 4/4A
FAP 4/4A	3422.1	green	1,5 mm	20	FRK 4/4A, FSL 4/4A
FAP 4/4A	3422.9	red	1,5 mm	20	FRK 4/4A, FSL 4/4A
FAP 4/4A	3422.8	yellow	1,5 mm	20	FRK 4/4A, FSL 4/4A