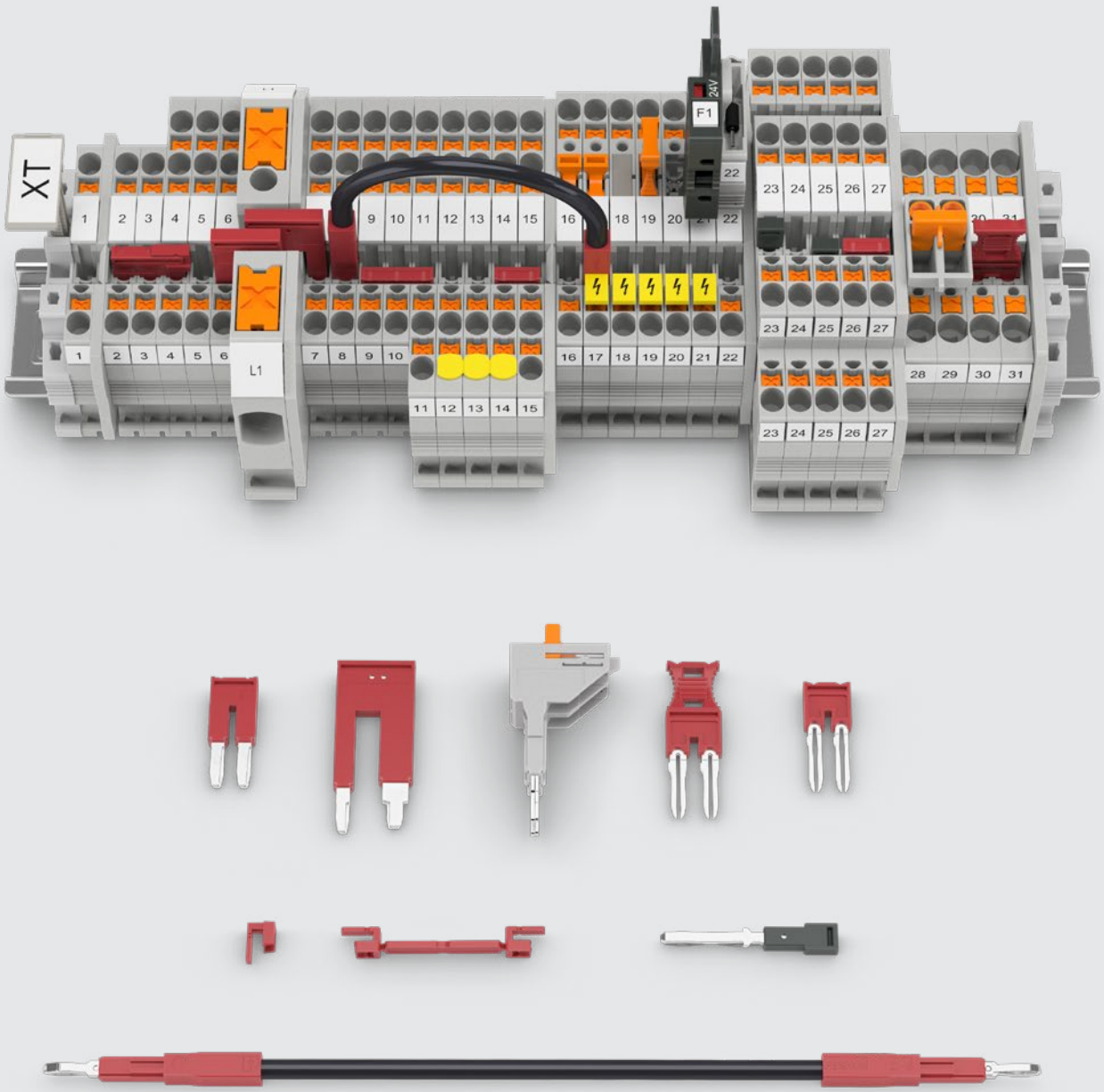


Standardized potential distribution

With the bridges of the CLIPLINE complete system

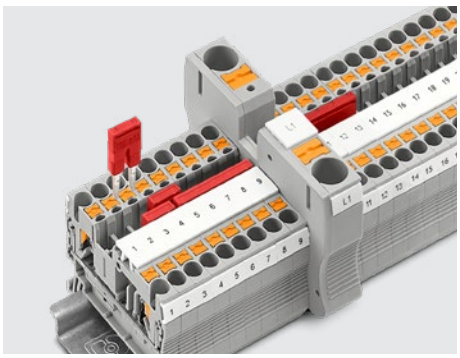
PHOENIX CONTACT

FBS plug-in bridges and accessories

FBS plug-in bridges

The standard FBS plug-in bridges are used for easy potential distribution between terminal blocks with the same pitch. The plug-in bridges are available with up to 50 contact tabs, enabling you to connect up to 50 potentials together.

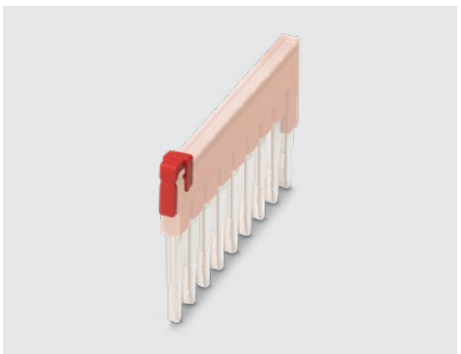




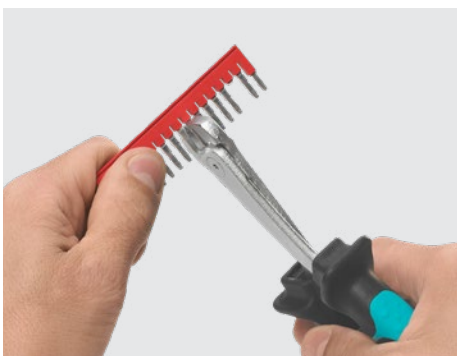
The FBS bridges can be inserted easily into the bridge shaft. The bridges sit firmly in the function slot thanks to the clever clamping technology.



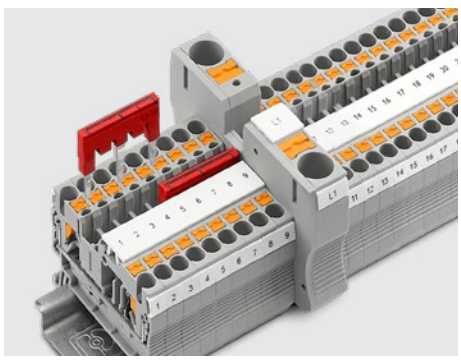
If shorter plug-in bridges are required, the FBS bridges can easily be cut to length using a cutting tool (CUTFOX 18). The range also includes shorter plug-in bridges as an option.



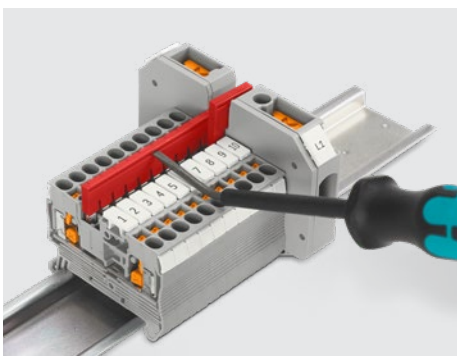
After shortening the plug-in bridges, protective caps (FBSC) can be used to cover the live metal.



The CUTFOX-FBS can be used to cut off individual contact tabs to create non-adjacent bridges.



The non-adjacent bridges enable potential distribution between terminal blocks that are not adjacent to each other. The marking groove can be traced with the B-STIFT marker pen for visual identification.



To remove the plug-in bridges from the function slot, simply insert a screwdriver into the groove on the side and lever the bridge out.

Product overview FBS plug-in bridges

Pitch width: 3.5 mm / max. load current: 17.5 A [1]						
Terminal blocks	**FBS bridges (red)**		**FBS bridges (blue)**		**FBS bridges (gray)**	
	Type	**Item no.**	**Type**	**Item no.**	**Type**	**Item no.**
PT 1,5/S... PTS 1,5/S... MPT 1,5/S...	FBS 2-3,5	3213014	FBS 2-3,5 BU	3213086	FBS 2-3,5 GY	3213153
	FBS 3-3,5	3213027	FBS 3-3,5 BU	3213099	FBS 3-3,5 GY	3213167
	FBS 4-3,5	3213030	FBS 4-3,5 BU	3213109	FBS 4-3,5 GY	3213180
	FBS 5-3,5	3213043	FBS 5-3,5 BU	3213112	FBS 5-3,5 GY	3213183
	FBS 10-3,5	3213056	FBS 10-3,5 BU	3213125	FBS 10-3,5 GY	3213196
	FBS 20-3,5	3213069	FBS 20-3,5 BU	3213138	FBS 20-3,5 GY	3213206
	FBS 50-3,5	3000706	FBS 50-3,5 BU	3000708	FBS 50-3,5 GY	3000707
Pitch width: 4.2 mm / max. load current: 17.5 A [1]						
Terminal blocks	**FBS bridges (red)**		**FBS bridges (blue)**			
	Type	**Item no.**	**Type**	**Item no.**		
XT 1,5... UT 1,5... ST 1,5...	FBS 2-4	3030116	FBS 2-4 BU	3030117		
	FBS 3-4	3030129	FBS 3-4 BU	3030130		
	FBS 4-4	3030132	FBS 4-4 BU	3030133		
	FBS 5-4	3030145	FBS 5-4 BU	3030146		
	FBS 10-4	3030158	FBS 10-4 BU	3036851		
	FBS 20-4	3030352	FBS 20-4 BU	3030353		
Pitch width: 5.2 mm / max. load current: 24 A [1]						
Terminal blocks	**FBS bridges (red)**		**FBS bridges (blue)**		**FBS bridges (gray)**	
	Type	**Item no.**	**Type**	**Item no.**	**Type**	**Item no.**
XT 2,5... PT(V) 2,5... PTS 2,5... MPT 2,5... UT 2,5... MUT 2,5... ST 2,5... STS 2,5...	FBS 2-5	3030161	FBS 2-5 BU	3036877	FBS 2-5 GY	3038969
	FBS 3-5	3030174	FBS 3-5 BU	3036880	FBS 3-5 GY	3038972
	FBS 4-5	3030187	FBS 4-5 BU	3036893	FBS 4-5 GY	3038985
	FBS 5-5	3030190	FBS 5-5 BU	3036903	FBS 5-5 GY	3038998
	FBS 10-5	3030213	FBS 10-5 BU	3036916	FBS 10-5 GY	3039007
	FBS 20-5	3030226	FBS 20-5 BU	3036929	FBS 20-5 GY	3038671
	FBS 50-5	3038930	FBS 50-5 BU	3032114	FBS 50-5 GY	3032127
Pitch width: 6.2 mm / max. load current: 32 A [1]						
Terminal blocks	**FBS bridges (red)**		**FBS bridges (blue)**		**FBS bridges (gray)**	
	Type	**Item no.**	**Type**	**Item no.**	**Type**	**Item no.**
XT 4... PT(V) 4... PTS 4... MPT 4 UT 4... MUT 4... ST 4...	FBS 2-6	3030336	FBS 2-6 BU	3036932	FBS 2-6 GY	3032237
	FBS 3-6	3030242	FBS 3-6 BU	3036945	FBS 3-6 GY	3032240
	FBS 4-6	3030255	FBS 4-6 BU	3036958	FBS 4-6 GY	3032279
	FBS 5-6	3030349	FBS 5-6 BU	3036961	FBS 5-6 GY	3032266
	FBS 6-6	1008238				
	FBS 10-6	3030271	FBS 10-6 BU	3032198	FBS 10-6 GY	3032253
	FBS 20-6	3030365	FBS 20-6 BU	3032208	FBS 20-6 GY	3038671
	FBS 50-6	3032224	FBS 50-6 BU	3032211	FBS 50-6 GY	3032127

[1] The current values for the bridges may vary depending on the terminal blocks used.
You will find the exact values in the accessory data for the respective terminal blocks.

Product overview FBS plug-in bridges

Pitch width: 8.2 mm / max. load current: 41 A [1]								
Terminal blocks	FBS bridges (red)		FBS bridges (blue)		FBS bridges (gray)		FBS bridges (CT)	
	Type	Item no.	Type	Item no.	Type	Item no.	Type	Item no.
XTV 6... PT(V) 6... UT 6... ST 6...	FBS 2-8	3030284	FBS 2-8 BU	3032567	FBS 2-8 GY	3032621	FBS 2-8 CT	3033830
	FBS 3-8	3030297	FBS 3-8 BU	3032619	FBS 3-8 GY	3032622	FBS 3-8 CT	3033831
	FBS 4-8	3030307	FBS 4-8 BU	3032570	FBS 4-8 GY	3032635	FBS 4-8 CT	3033832
	FBS 5-8	3030310	FBS 5-8 BU	3032583	FBS 5-8 GY	3032648		
	FBS 6-8	3032470	FBS 6-8 BU	3032596	FBS 6-8 GY	3032664		
	FBS 10-8	3030323	FBS 10-8 BU	3032677	FBS 10-8 GY	3032651	FBS 10-8 CT	3033833

Pitch width: 10.2 mm / max. load current: 57 A [1]						
Terminal blocks	FBS bridges (red)		FBS bridges (blue)		FBS bridges (gray)	
	Type	Item no.	Type	Item no.	Type	Item no.
XTV 10... PT 10... UT 10... ST 10...	FBS 2-10	3005947			FBS 2-10 GY	1103721
	FBS 5-10	3005948	FBS 5-10 BU	1040620		

Pitch width: 12 mm / max. load current: 76 A [1]						
Terminal blocks	FBS bridges (red)					
	Type	Item no.				
XTV 16 PT 16 UT 16 ST 16	FBS 2-12	3005950				

Pitch width: 16 mm / max. load current: 101 A [1]						
Terminal blocks	FBS bridges (red)					
	Type	Item no.				
PTPOWER 35 UT 35 ST 35	FBS 2-16	3005963				

[1] The current values for the bridges may vary depending on the terminal blocks used.
You will find the exact values in the accessory data for the respective terminal blocks.

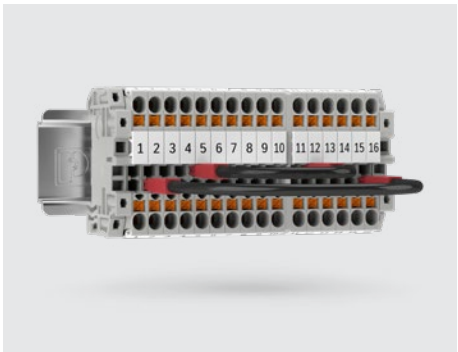
Protective cap for cut-to-length FBS bridges			
Bridges	Type	Item no.	
FBS...-5 FBS...-6	FBSC	3012325	
FBS...-8	FBSC 8	1798933	

Wire bridges

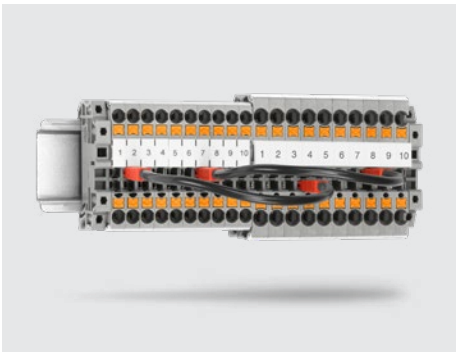
Wire bridges

Wire bridges enable even longer distances to be bridged quickly and easily. Because the wire between the end points of the bridge is very flexible, it is also possible to establish non-adjacent bridging over several levels.





The wire bridges can be used to connect terminal blocks that are far apart. Compared to FBS bridges, contact tabs do not need to be removed in order to bridge terminal blocks.



The wire bridges can be used in all terminal blocks with a pitch of 5.2 mm.



The wire bridges make it easy to bridge levels. The advantage over PV bridges is that levels can be bridged, and even diagonal bridging is possible.

Wire bridges				
Terminal blocks	**FBSW bridges (red)**			
	Max. load current [1)]	**Pitch width**	**Type**	**Item no.**
XT 2,5 PT(V) 2,5 PTS 2,5 UT 2,5 ST 2,5	17.5 A	60 mm	FBSW N 2-5/60mm	1653820
		120 mm	FBSW N 2-5/120mm	1653821
		240 mm	FBSW N 2-5/240mm	1653822

[1)] The current values for the bridges may vary depending on the terminal blocks used. You will find the exact values in the accessory data for the respective terminal blocks.

PV potential bridges

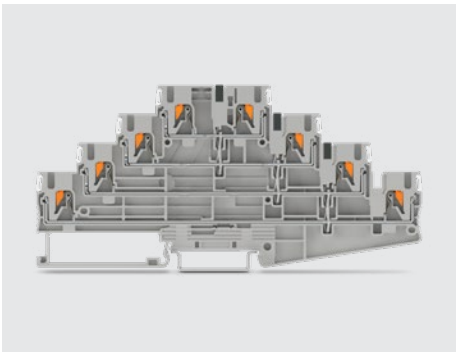
PV potential bridges

The potential bridges are suitable for vertical level bridging of double-level terminal blocks or multi-level terminal blocks. For example, a double-level terminal block (PTTB 2,5) can be used to connect the lower and upper levels. NOTE: The double-level terminal blocks with the suffix ...PV already have a permanently integrated potential bridge, so a PV bridge is not required.





The PV bridges enable quick and easy bridging of double-level terminal blocks and multi-level terminal blocks. The bridges only connect levels that are directly below each other.



Connecting multiple level usually requires more than one PV bridge.



In addition to PV bridges, the portfolio also includes double-level terminal blocks and multi-level terminal blocks with integrated PV bridges. These terminal blocks are marked with the suffix “PV”.

PV potential bridges

Terminal blocks	PV bridge (black)		
	Max. load current [1]	Type	Item no.
QTTCB 1,5... STTB 2,5... XTTB 2,5... PTTB 4... PTTB 2,5... PT 2,5-3L... PTTBS 2,5... PT 2,5-4L...	32 A	FBS-PV	3032185
PT 2,5-PE/3L... PT 4-PE/3L... UTTB 2,5... UTTB 4...	22 A	FBS-PV UT	3047358
PT 2,5-4L/1P PT 2,5-4L/2P PT 2,5-PE/3L/2P	10 A	FBS-PV PT 2,5-4L	3012318
PTTB 1,5/S... PT 1,5/S-3L... and versions PT 1,5/S-PE/L/L	16 A	FBS 1,5/S-PV	3216263

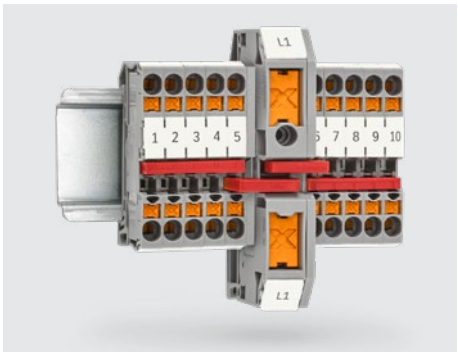
[1] The current values for the bridges may vary depending on the terminal blocks used. You will find the exact values in the accessory data for the respective terminal blocks.

RB reducing bridges

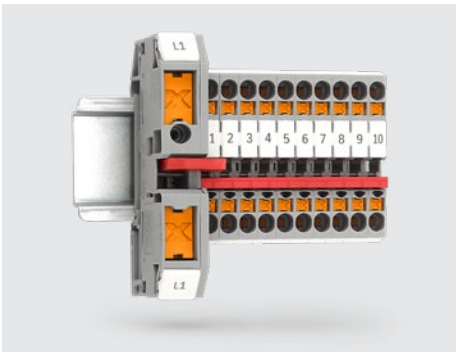
RB reducing bridges

Unlike the standard FBS plug-in bridges, the reducing bridges (RB) connect terminal blocks with two different nominal cross-sections. This makes it possible to set up feed-ins quickly and easily.





When setting up central supplies, please note that the current values of the reducing bridges differ.



In contrast to a central supply, different current values must be observed for a single-sided supply.



The portfolio of reducing bridges is so extensive that the feed-in method can be selected for all connection technologies.

RB reducing bridges (spring-cage terminal blocks)

Terminal block (supply)	Terminal block (pick-off)	Single-sided supply	Central supply	RB bridges (red)	
				Type	Item no.
XT 2,5 ... PT(V) 2,5 ... ST 2,5 ...	PT 1,5/S	24 A	30 A	RB ST (2,5/4)-1,5/S	3214356
	XT 1,5 ST 1,5	31 A	31 A	RB ST (2,5/4)-1,5	3038943
	QTC 1,5	31 A	31 A	FBS 2-5	3030161
XT 4... PT(V) 4 ... ST 4 ... XT 4 ...	PT 1,5/S	24 A	40 A	RB ST (2,5/4)-1,5/S	3214356
	XT 1,5 / ST 1,5 ...	35 A	40 A	RB ST (2,5/4)-1,5	3038943
	QTC 1,5...	35 A	40 A	FBS 2-5	3030161
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ...	40 A	40 A		
	QTC 2,5 ...	40 A	40 A	FBS 2-6	3030336

Product overview RB reducing bridges

RB reducing bridges (spring-cage terminal blocks)					
Terminal blocks (supply)	**Terminal blocks (pick-off)**	**Single-sided supply [1)]**	**Central supply [1)]**	**RB bridges (red)**	
				Type	**Item no.**
XTV 6 ... PT(V) 6 ... ST 6 ...	PT 1,5/S	24 A	48 A	RB ST 6-1,5/S	3213250
	QTC 1,5 ...	35 A	40 A	RB ST 6-(2,5/4)	3030860
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	40 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	40 A		
XTV 10 ... PT 10 ... ST 10 ...	PT 1,5/S	24 A	48 A	RB ST 10-1,5/S	3213252
	QTC 1,5 ...	35 A	65 A	RB ST 10-(2,5/4)	3030873
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	65 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	65 A		
XTV 16 ... PT 16 ... ST 16 ...	PT 1,5/S	24 A	48 A	RB ST 16-1,5/S	3213254
	QTC 1,5 ...	35 A	70 A	RB ST 16-(2,5/4)	3030886
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	80 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	90 A		
	XTV 6 ... PT(V) 6 ... ST 6 ...	37 A	74 A	RB 16-6	3047072
PTPOWER 35 ...	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ...	40 A	80 A	RB PTPOWER 35-ST (2,5/4)	3030900
	XT 4... PT(V) 4 ... ST 4 ...	45 A	90 A		
	XTV 16 PT 16 ST 16	90 A	125 A	RB PTPOWER 35-ST 16	3032170
ST 35 ...	QTC 1,5 ...	35 A	70 A	RB ST 35-(2,5/4)	3030899
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	80 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	90 A		

[1)] The current values for the bridges may vary depending on the terminal blocks used.
You will find the exact values in the accessory data for the respective terminal blocks.

Product overview RB reducing bridges

RB reducing bridges (screw terminal blocks)					
Terminal blocks (supply)	**Terminal blocks (pick-off)**	**Single-sided supply [1)]**	**Central supply [1)]**	**RB bridges (red)**	
				Type	**Item no.**
UT 4 ...	UT 2,5 ...	24 A	24 A	FBS 2-5	3030161
UT 6 ...	UT 2,5 ...	40 A	56 A	RB UT 6-(2,5/4)	3047251
	UT 4 ...	45 A	56 A		
	QTC 1,5 ...	35 A	56 A	RB UT 6-ST(2,5/4)	3047264
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	56 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	56 A		
UT 10 ...	UT 2,5 ...	40 A	65 A	RB UT 10-(2,5/4)	3047060
	UT 4 ...	45 A	65 A		
	QTC 1,5 ...	35 A	65 A	RB UT 10-ST(2,5/4)	3047086
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	65 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	65 A		
UT 16 ...	UT 2,5 ...	40 A	80 A	RB UT 16-(2,5/4)	3047073
	UT 4 ...	45 A	90 A		
	UT 6 ...	37 A	74 A	RB 16-6	3047072
	QTC 1,5 ...	35 A	70 A	RB UT 16-ST(2,5/4)	3047099
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	80 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	90 A		
UT 35 ...	UT 2,5 ...	40 A	80 A	RB UT 35-(2,5/4)	3047277
	UT 4 ...	45 A	90 A		
	UT 10 ...	57 A	114 A	RB UT 35-10	3032168
	UT 16	90 A	90 A	RB 35-16	3032169
	QTC 1,5 ...	35 A	70 A	RB UT 35-ST(2,5/4)	3047280
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ...	40 A	80 A		
	XT 4... PT(V) 4 ... ST 4 ...	45 A	90 A		

[1)] The current values for the bridges may vary depending on the terminal blocks used.
You will find the exact values in the accessory data for the respective terminal blocks.

Product overview RB reducing bridges

RB reducing bridges (bolt terminal blocks)					
Terminal blocks (supply)	**Terminal blocks (pick-off)**	**Single-sided supply**	**Central supply**	**RB bridges (red)**	
				Type	**Item no.**
RT 5 ...	RT 3 ... UT 2,5 ... UT 4 ...	40 A	56 A	RB UT 6-(2,5/4)	3047251
	QTC 1,5 ...	35 A	56 A	RB UT 6-ST(2,5/4)	3047264
	XT 2,5 ... PT(V) 2,5 ... ST 2,5 ... QTC 2,5 ... PT(V) 4 ... ST 4 ...	40 A	56 A		
RT 8 ...	RT 3 ...	40 A	56 A	RB ST 10-(2,5/4)	3030873
	UT 2,5...	40 A	65 A		
	UT 4 ...	45 A	65 A		

RB reducing bridges (fast-connection terminal blocks)					
Terminal blocks (supply)	**Terminal blocks (pick-off)**	**Single-sided supply**	**Central supply**	**RB bridges (red)**	
				Type	**Item no.**
QTC 2,5...	QTC 1,5 ...	31 A	31 A	FBS 2-5	3030161

Further information on the short-circuit currents, etc., can be found in the technical data documented on the item.

FBSR plug-in bridges

FBSR plug-in bridges

The plug-in mechanism on the FBSR plug-in bridges makes them easy to insert and remove. This type of bridge is recommended for applications where the plug-in bridge needs to be removed from time to time. To shorten the bridge and remove the contact tabs, use the same steps as for the FBS bridges.

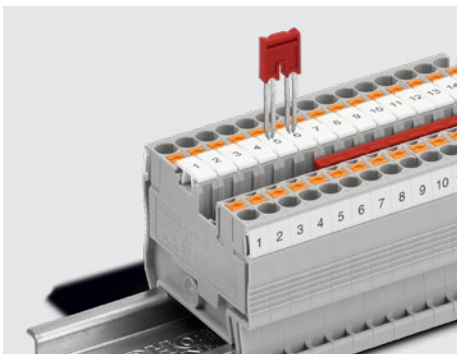
Reduced current values

The FBSR bridges are a more cost-effective option compared to the standard bridges in the FBS series. In contrast to the FBS versions, however, the FBSR versions are suitable for lower current values. Choosing the right bridge can improve both the efficiency and cost-effectiveness of an application.

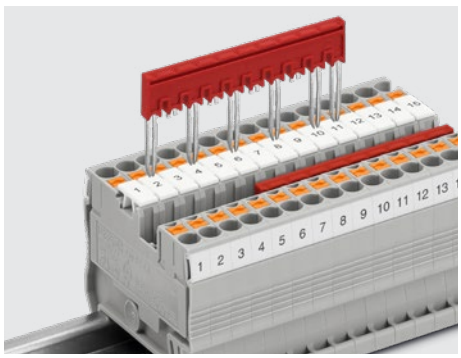


Comparison of current values between FBSR and FBS

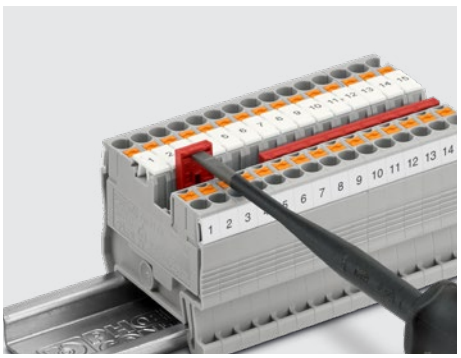
Bridge (FBSR)	Current value (FBSR)	Bridge (FBS)	Current value (FBS)
-	-	FBS 2-3,5	17.5 A
-	-	FBS 2-4	17.5 A
FBSR 2-5	17.5 A	FBS 2-5	24 A
FBSR 2-6	24 A	FBS 2-6	32 A
FBSR 2-8	32 A	FBS 2-8	41 A
-	-	FBS 2-10	57 A
-	-	FBS 2-12	76 A
-	-	FBS 2-16	101 A



The FBSR bridges have a different clamping technology than the FBS plug-in bridges. This makes it easier to insert and remove the plug-in bridges. However, the permissible current values are lower.



As with the FBS plug-in bridges, the individual contact tabs can be removed.



The FBSR plug-in bridges can be pulled out of the bridge shaft easily with a screwdriver.

Product overview FBSR plug-in bridges

Terminal blocks	FBSR bridges (red)	
	Type	Item no.
Pitch width: 3.5 mm / max. load current: 17.5 A [1)]		
XT 2,5... PT(V) 2,5... PTS 2,5... MPT 2,5... UT 2,5... MUT 2,5... ST 2,5... STS 2,5...	FBSR 2-5	3033702
	FBSR 3-5	3001591
	FBSR 4-5	3001592
	FBSR 5-5	3001593
	FBSR 10-5	3033710
Pitch width: 6.2 mm / max. load current: 24 A [1)]		
XT 4... PT(V) 4... PTS 4...MPT 4 UT 4...MUT 4... ST 4...	FBSR 2-6	3033715
	FBSR 3-6	3001594
	FBSR 4-6	3001595
	FBSR 5-6	3001596
	FBSR 10-6	3033716
Pitch width: 8.2 mm / max. load current: 32 A [1)]		
XTV 6... PT(V) 6... UT 6... ST 6...	FBSR 2-8	3033808
	FBSR 3-8	3001597
	FBSR 4-8	3000585
	FBSR 5-8	3033809
	FBSR 10-8	3001599
	FBSR 16-8	3033816

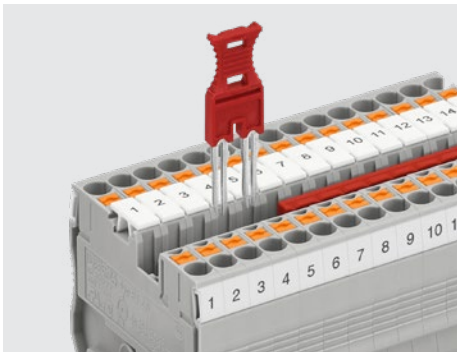
[1)] The current values for the bridges may vary depending on the terminal blocks used.
You will find the exact values in the accessory data for the respective terminal blocks.

FBSRH short-circuit plugs

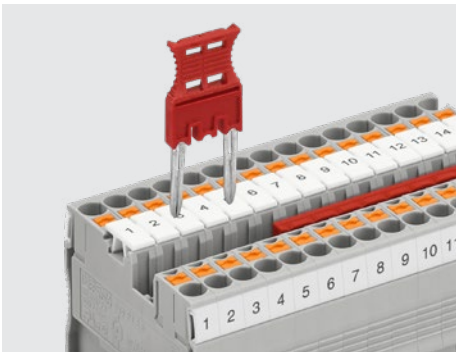
FBSRH short-circuit plugs

The FBSRH short-circuit plugs are similar to the FBSR plug-in bridges. They also connect potentials, but come with an additional extraction tool, because these plugs are not intended to remain in place permanently. The FBSRH short-circuit plugs are only intended for generating a short circuit for testing purposes.

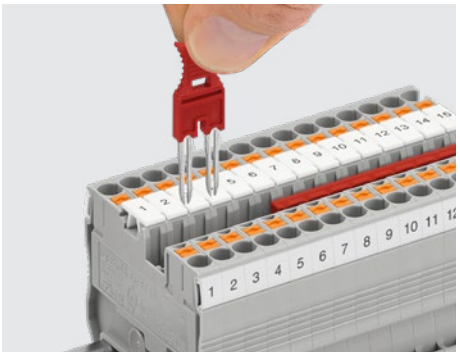




Like the other plug-in bridges, the short-circuit plugs can also be plugged in without tools.



The contact tabs can also be cut out easily using the CUTFOX-FBS.



In contrast to the plug-in bridges, the short-circuit bridges can be removed easily by hand thanks to the extraction tool.

Pitch width: 6.2 mm / max. load current: 24 A [1)]		
Terminal blocks	**FBSRH bridges (red)**	
	Type	**Item no.**
XT 4... PT(V) 4... PTS 4...MPT 4 UT 4...MUT 4... ST 4...	FBSRH 2-6	3033812
Pitch width: 8.2 mm / max. load current: 32 A [1)]		
XTV 6... PT(V) 6... UT 6... ST 6...	FBSRH 2-8	3033802
	FBSRH 3-8	3033803
	FBSRH 4-8	3033804

[1)] The current values for the bridges may vary depending on the terminal blocks used. You will find the exact values in the accessory data for the respective terminal blocks.

FBSL plug-in bridges

FBSL plug-in bridges

The FBSL plug-in bridges have the same properties as the FBS standard plug-in bridges. The only difference is the length of the contact tabs. The contact tabs are shorter and can therefore only be used for special terminal blocks. These include the mini terminal blocks from the MUT series and special terminal blocks from the UTI installation terminal block range.



Pitch width: 3.5 mm / max. load current: 17.5 A [1]		
Terminal blocks	**FBSL bridges (red)**	
	Type	**Item no.**
MUT 1,5	FBSL 2-3,5	1301365
	FBSL 3-3,5	1301366
	FBSL 10-3,5	1301367
Pitch width: 8.2 mm / max. load current: 32 A [1]		
UTI 6...	FBSL 2-8	3030324
	FBSL 3-8	3030325
	FBSL 4-8	3030326
	FBSL 5-8	3030327
	FBSL 10-8	3030328

[1] The current values for the bridges may vary depending on the terminal blocks used. You will find the exact values in the accessory data for the respective terminal blocks.

Other products in the CLIPLINE complete portfolio

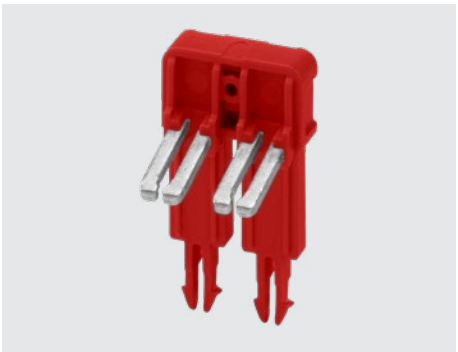
In addition to the plug-in bridges listed above, the CLIPLINE complete portfolio also includes special bridge bars and short-circuit plugs. However, as these products have special properties and are not suitable for the general terminal block portfolio, they are not included in this PDF.

The following pages will give you an overview of these special products. Further information on this can be found on the respective terminal block or directly on the item.



SB-ME bridge bars

The SB-ME bridge bars were developed for testing transformer terminal blocks. The bridges can be switched with a slider. The bridges can remain plugged in. To prevent unintentional actuation, the slider can be secured with two screws.



SB-MEA bridge bars

The SB-MEA bridge bars have been specially developed for the test-disconnect terminal blocks of the MEA line. When inserted in the correct functional slot, the bridges ensure an automatic transformer short circuit as soon as the disconnect lever is actuated.



SCP and KSS short-circuit plugs

The SCP short-circuit plugs are designed for short-circuiting adjacent test-disconnect terminal blocks. They can be used as temporary current transformer short-circuiting options for maintenance and commissioning tasks on measuring and safety equipment in power generation systems. Connecting or disconnecting short-circuit plugs is only permitted while the power supply and all loads are disconnected.

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