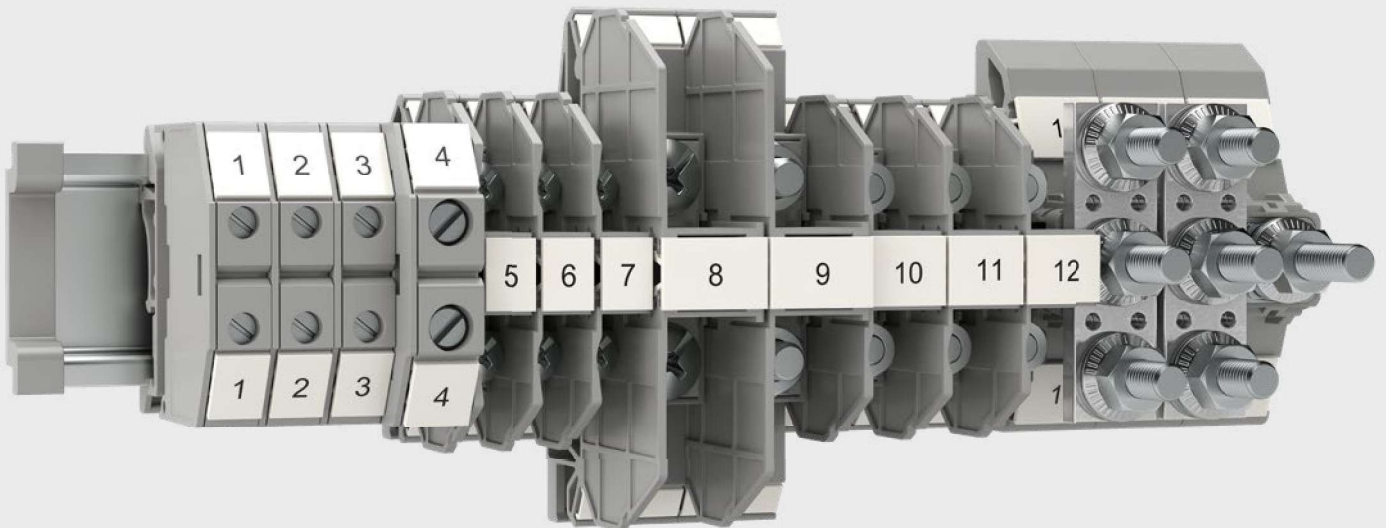


Terminal blocks for special fields of application

High-current terminal blocks and connectors with bolt connection

The high-current terminal blocks with bolt connection are split into the following terminal block families: OTTA, RSC, RBO, and HV. Each terminal block family is suitable for different areas of application. In addition to high-current terminal blocks and high-current connectors, the terminal block portfolio also includes pick-off terminal blocks.



Your advantages

- ✓ Considerable conductor pull-out forces due to high contact force and large contact surfaces
- ✓ Fast ring cable lug wiring
- ✓ Guaranteed use even when subjected to high shocks and vibration
- ✓ Wire conductor cross-sections up to 240 mm²

High-current terminal blocks and connectors with bolt connection

1

2

OTTA bolt terminal blocks

Functions

The OTTA terminal block is a bolt connection terminal block for the safe electrical connection of conductors with ring or fork-type cable lugs. It ensures stable current conduction due to a mechanically secured screw connection and is particularly suitable for high-current applications in harsh environments.

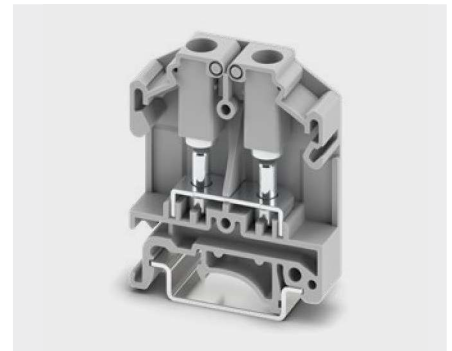
Characteristics

The OTTA terminal blocks have a high current carrying capacity and a tightening torque of 0.6 to 0.8 Nm. The terminal blocks comply with the IEC 60947-7-1

standard and offer fire protection in accordance with DIN EN 45545-2 for rail vehicles.

Application

OTTA terminal blocks are used in power distribution systems, control cabinets, industrial automation systems, and transportation. They are particularly suitable for applications with high electrical powers, such as motor controls and drive systems.



OTTA 6 bolt connection terminal block

RSC bolt terminal blocks

Functions

RSC terminal blocks are high-current bolt terminal blocks that have been developed for applications with particularly high current requirements. They enable a stable and secure connection via ring or fork-type cable lugs and are designed for use under extreme conditions.

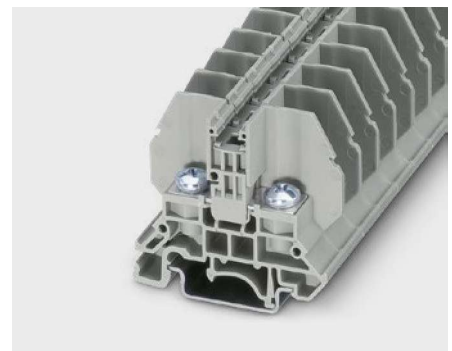
Characteristics

The terminal blocks have a robust bolt connection, are designed for very high currents, and offer reliable contact quality. They are mechanically resilient,

vibration-resistant, and suitable for large conductor cross-sections.

Application

RSC terminal blocks are used in power generation, for example in power stations, as well as in industrial machines with high power requirements. They are ideal for use in power distribution systems and automation systems where safe current routing is crucial.



RSC 5 bolt connection terminal block

RBO bolt terminal blocks

Functions

RBO terminal blocks are robust bolt connection terminal blocks for high-current applications. They enable the secure connection of conductors with ring and fork-type cable lugs and are designed for use under high electrical and mechanical loads.

Characteristics

The terminal blocks offer a high current carrying capacity (e.g., 309 A for RBO 10, and up to 520 A for RBO 16), are designed for voltages up to 1,000 V, and support cross-sections up to 300 mm².

They have bolt connections with M8 and M10 threads, are vibration-resistant, and comply with standards such as IEC 60947-7-1 and DIN EN 45545-2.

Application

RBO terminal blocks are used in the railway industry, in machine building and systems manufacturing, photovoltaics, and storage technology. They are ideal for DC main distribution boards, high-current connections, and industrial power distribution systems.



RBO 12 bolt connection terminal block

High-current terminal blocks and connectors with bolt connection

High-current connectors

Functions

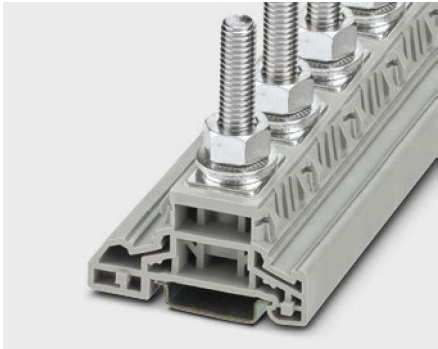
The HV series high-current connectors are used for the safe electrical connection of conductors with high current loads. They enable the reliable transmission of currents of up to 269 A at voltages of up to 1,000 V.

Characteristics

The HV family has bolt connections with M5 to M12 threads and is suitable for mounting on NS 35/7.5 and NS 35/15 DIN rails. The high-current connectors comply with standards such as IEC 60947-7-1 and DIN EN 45545-2.

Application

The HV high-current connectors are used in power distribution systems, industrial control systems, railway technology, charging infrastructure, and battery systems. They are particularly suitable for connecting power components such as motors, DC switching devices, and batteries where a compact, robust, and standard-compliant high-current connection is required.



HV 5/M1 high-current connector

High-current terminal blocks

	 	 	 
	 Web code: #4230	 Web code: #4231	 Web code: #4229
	OTTA bolt connection	RSC bolt connection	RBO bolt connection
Current	24 A ... 101 A	32 A ... 125 A	57 A ... 520 A
Voltage	800 V	800 V	1000 V
Bolt diameter	3 mm ... 6 mm	4 mm ... 6 mm	5 mm ... 16 mm
Cross-section of cable lug connection	0.1 mm² ... 25 mm²	0.1 mm² ... 35 mm²	0.1 mm² ... 300 mm²
	 	 	
	 Web code: #4232	 Web code: #4228	
	RTO bolt connection	HV high-current connectors	
Current	24 A ... 125 A	76 A ... 269 A	
Voltage	1000 V	1000 V	
Bolt diameter	3 mm ... 8 mm	5 mm ... 12 mm	
Cross-section of cable lug connection	0.5 mm² ... 35 mm²	0.5 mm² ... 120 mm²	

High-current terminal blocks and connectors with bolt connection

Pick-off terminals

Function

AGK series pick-off terminal blocks are used for the safe and space-saving branching of electrical potentials within terminal block systems. They enable the simple and standard-compliant connection of additional cables without having to change the main wiring.



AGK PT 4x6/M10 pick-off terminal block

High-current terminal blocks – protective conductor terminal blocks

	 	 	
	 Web code: #4334	 Web code: #4232	
	OTTA bolt connection	RTO bolt connection	
Bolt diameter	3 mm ... 4 mm	3 mm ... 5 mm	
Cross-section of cable lug connection	0.1 mm² ... 6 mm²	0.5 mm² ... 6 mm²	

Pick-off terminals

	 		
	 Web code: #4141		
	Push-in connection		
Cross-section range	0.5 mm² ... 10 mm²		
[AWG]	20 ... 8		