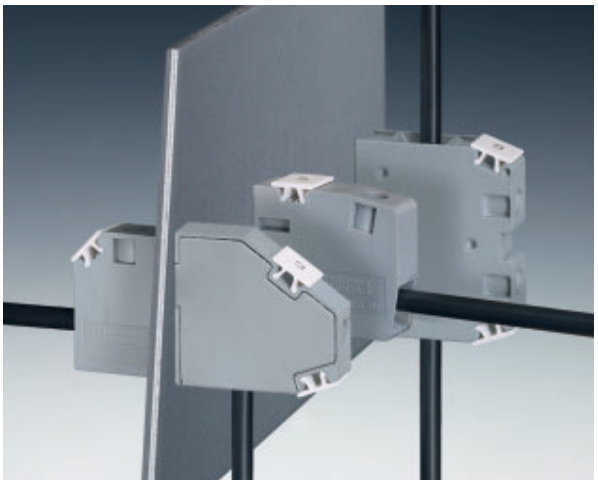
High Voltage
High Current Feed-Through Terminal Blocks

The new High Voltage Generation of high current feed-through terminal blocks is specially designed for the requirements of drive technology and power electronics.
In addition to the already familiar simple assembly, the outstanding feature of these terminal blocks is a high nominal voltage of 1000 V. For the conductor cross section range up to 10 mm^2, there are the horizontal feed-through terminal blocks, HDFK 10-HV and the vertical version, HDFKV 10-HV.
The HDFKV 10-TWIN-HV with a conductor connection on both sides is used to loop through intermediate circuit voltages.
In addition to this, the HV range is rounded off by the molded variant.
The HDFK...-VP-HV terminal blocks are specially designed for the requirements of potted devices, such as filter modules, for example. They are an ideal supplement to the HDFK range for the cross section range of up to 10 mm^2.
The external parts of the molded high current feed-through terminal blocks is identical to those of the standard HV versions.
On the inside of the device, however, there is a sealing plate as well as a sponge rubber seal that prevents the molding compound from leaking out. The connection here is soldered.



Phoenix Contact GmbH & Co. KG • 32823 Blomberg, Germany
Phone +49 52 35 3-00 • Fax +49 52 35 3-4 12 00 • www.phoenixcontact.com

High Current Feed-Through Terminal Blocks

HDFK 10-HV

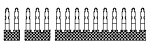
(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76	1000

c UL us

Technical data

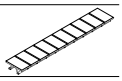
Feed-through terminal block, for 1 - 4 mm thick housing panels, with internal and external screw connection

(1) **Insertion bridge**[1]**),** fully insul., 2-pos.
fully insulated, 3-pos.
divisible, fully insulated, 10-pos.



(2) **Screwdriver,**
for actuating the tension spring

(3) **Zack strip,** 10-section, white



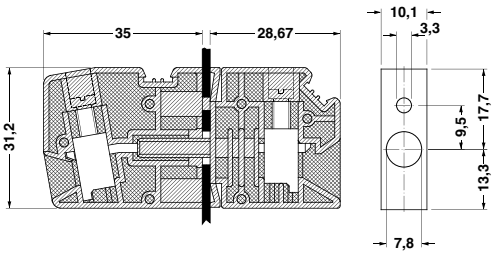
Dimensions	see dimensional drawing
Technical data in accordance with IEC/ DIN VDE	
Max. cross section with insertion bridge (solid/stranded) [mm²]	10 / 10
Rated surge voltage / contamination class [kV] / –	6 / 3
Surge voltage category / insulation material group – / –	III / I
Connection capacity	
Stranded with ferrule without / with plastic sleeve [mm²]	0.5 - 10 / 0.5 - 10
Multi-conductor connection (2 cond. with same cross section)	
Solid / Stranded [mm²]	0.5 - 4 / 0.5 - 4
Stranded with ferrule without plastic sleeve [mm²]	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve [mm²]	0.5 - 6
Stripping length [mm]	11
Internal cylindrical gauge (IEC 60 947-1)	B 6
Terminal sleeve: Thread / torque – / [Nm]	M 4 / 1.5 - 1.8
Insulating material	PA
Inflammability class in acc. with UL 94	V0
Approval data (UL and CSA/CUL)	
Nominal voltage / current / conductor sizes UL: [V] / [A] / AWG	600 / 65 / 24 - 6
CSA/CUL: [V] / [A] / AWG	600 / 65 / 22 - 6

[1]) Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Note:
With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.

The HDFK 10-HV can also be connected if turned by 180°.

Type		Order No.	Pcs. Pkt.
HDFK 10-HV		**07 09 86 4**	**50**
EB 2-10	$I_{max.}$: 70 A	**02 03 15 3**	**100**
EB 3-10	70 A	**02 03 32 8**	**10**
EB 10-10	70 A	**02 03 13 7**	**10**
SZS 1,0 x 4,0		**12 05 06 6**	**10**
ZB 10:UNPRINTED		**10 53 00 1**	**10**

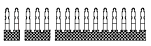
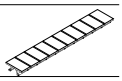


High Current Feed-Through Terminal Blocks

HDFKV 10-HV

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76	1000

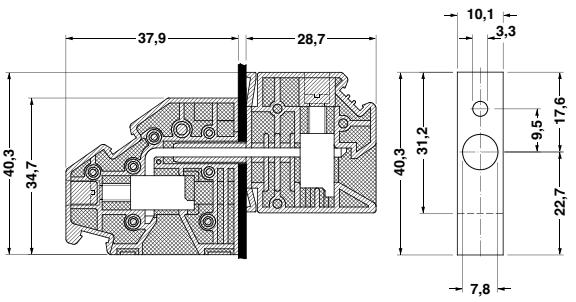
Technical data

Feed-through terminal block, for 1 - 4 mm thick housing panels, with internal and external screw connection		
(1) **Insertion bridge**[1]**),** fully insul., 2-pos. fully insulated, 3-pos. divisible, fully insulated, 10-pos.		
(2) **Screwdriver,** for actuating the tension spring		
(3) **Zack strip,** 10-section, white		
Dimensions		
Technical data in accordance with IEC/ DIN VDE		
Max. cross section with insertion bridge (solid/stranded)	[mm²]	10 / 10
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule without / with plastic sleeve	[mm²]	0.5 - 10 / 0.5 - 10
Multi-conductor connection (2 cond. with same cross section)		
Solid / Stranded	[mm²]	0.5 - 4 / 0.5 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6
Stripping length	[mm]	11
Internal cylindrical gauge (IEC 60 947-1)		B 6
Terminal sleeve: Thread / torque	– / [Nm]	M 4 / 1.5 - 1.8
Insulating material		PA
Inflammability class in acc. with UL 94		V0
Approval data (UL and CSA/CUL)		
Nominal voltage / current / conductor sizes	UL/CUL: [V] / [A] / AWG	600 / 65 / 24 - 6

Type		Order No.	Pcs. Pkt.
HDFKV 10-HV		**07 17 23 8**	**50**
EB 2-10	$I_{max.}$: 70 A	**02 03 15 3**	**100**
EB 3-10	70 A	**02 03 32 8**	**10**
EB 10-10	70 A	**02 03 13 7**	**10**
SZS 1,0 x 4,0		**12 05 06 6**	**10**
ZB 10:UNPRINTED		**10 53 00 1**	**10**

[1]) Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Note:
With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.



High Current Feed-Through Terminal Blocks

HDFKV 10-TWIN-HV

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76*	1000

* The max. load current must not be exceeded by the total current of all connected conductors.

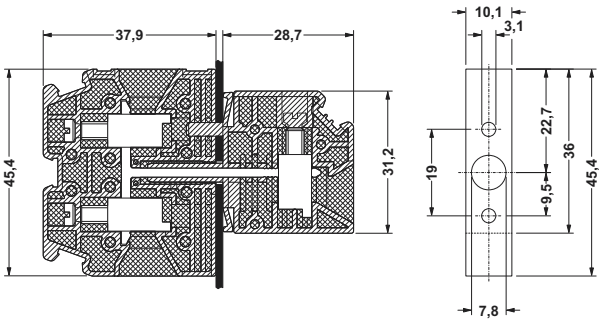
Technical data

Feed-through terminal block, with internal and external screw connection, for 1 - 4 mm thick housing panels, external for vertical conductor connection		
(1) **Insertion bridge[1]),** fully insul., 2-pos. fully insulated, 3-pos. divisible, fully insulated, 10-pos.		
(2) **Screwdriver,** for actuating the tension spring		
(3) **Zack strip,** 10-section,	white	
Dimensions		
Technical data in accordance with IEC/ DIN VDE		
Max. cross section with insertion bridge (solid/stranded)		[mm²]
Rated surge voltage / contamination class		[kV] / –
Surge voltage category / insulation material group		– / –
Connection capacity		
Stranded with ferrule without / with plastic sleeve		[mm²]
Multi-conductor connection (2 cond. with same cross section)		
Solid / Stranded		[mm²]
Stranded with ferrule without plastic sleeve		[mm²]
Stranded with TWIN ferrule with plastic sleeve		[mm²]
Stripping length		[mm]
Internal cylindrical gauge (IEC 60 947-1)		
Terminal sleeve: Thread / torque		– / [Nm]
Insulating material		
Inflammability class in acc. with UL 94		
Approval data (UL and CSA/CUL)		
Nominal voltage / current / conductor sizes		UL/CUL: [V] / [A] / AWG

Type		Order No.	Pcs. Pkt.
HDFKV 10-TWIN-HV		**07 17 24 1**	**50**
EB 2-10	$I_{max.}$: 70 A	**02 03 15 3**	**100**
EB 3-10	70 A	**02 03 32 8**	**10**
EB 10-10	70 A	**02 03 13 7**	**10**
SZS 1,0 x 4,0		**12 05 06 6**	**10**
ZB 10:UNPRINTED		**10 53 00 1**	**10**
see dimensional drawing			
		10 / 10	
		6 / 3	
		III / I	
		0.5 - 10 / 0.5 - 10	
		0.5 - 4 / 0.5 - 4	
		0.5 - 2.5	
		0.5 - 6	
		11	
		B 6	
		M 4 / 1.5 - 1.8	
		PA	
		V0	
		600 / 65 / 24 - 6	

[1]) Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Note:
With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.



High Current Feed-Through Terminal Blocks

HDFK 10-VP-HV

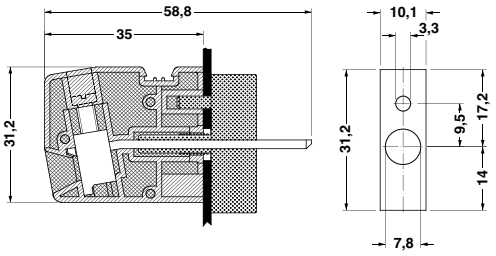
(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76	1000

Technical data

Molded feed-through terminal block, for 1 - 4 mm thick housing panels, with external screw connection, with solder connection and sealing plate inside		
(1) **Insertion bridge**[1]**),** fully insul., 2-pos. fully insulated, 3-pos. divisible, fully insulated, 10-pos.		
(2) **Screwdriver,** for actuating the tension spring		
(3) **Zack strip,** 10-section,	white	
Dimensions		see dimensional drawing
Technical data in accordance with IEC/ DIN VDE		
Max. cross section with insertion bridge (solid/stranded)	[mm²]	10 / 10
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule without / with plastic sleeve	[mm²]	0.5 - 10 / 0.5 - 10
Multi-conductor connection (2 cond. with same cross section)		
Solid / Stranded	[mm²]	0.5 - 4 / 0.5 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6
Stripping length	[mm]	11
Internal cylindrical gauge (IEC 60 947-1)		B 6
Terminal sleeve: Thread / torque	– / [Nm]	M 4 / 1.5 - 1.8
Insulating material		PA
Inflammability class in acc. with UL 94		V0

[1]) Finger-safe protection is not guaranteeed when using the insertion bridge externally.

Type		Order No.	Pcs. Pkt.
HDFK 10-VP-HV		**07 17 39 3**	**50**
EB 2-10	$I_{max.}$: 70 A	**02 03 15 3**	**100**
EB 3-10	70 A	**02 03 32 8**	**10**
EB 10-10	70 A	**02 03 13 7**	**10**
SZS 1,0 x 4,0		**12 05 06 6**	**10**
ZB 10:UNPRINTED		**10 53 00 1**	**10**

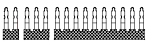
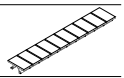


High Current Feed-Through Terminal Blocks

HDFKV 10-VP-HV

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76	1000

Technical data

Molded Feed-through terminal block, for 1 - 4 mm thick housing panels, with external screw connection, with solder connection and sealing plate inside		
(1) **Insertion bridge[1]),** fully insul., 2-pos. fully insulated, 3-pos. divisible, fully insulated, 10-pos.		
(2) **Screwdriver,** for actuating the tension spring		
(3) **Zack strip,** 10-section,	white	

Type		**Order No.**	Pcs. Pkt.
HDFKV 10-VP-HV		**07 17 25 4**	**50**
EB 2-10	$I_{max.}$: 70 A	**02 03 15 3**	**100**
EB 3-10	70 A	**02 03 32 8**	**10**
EB 10-10	70 A	**02 03 13 7**	**10**
SZS 1,0 x 4,0		**12 05 06 6**	**10**
ZB 10:UNPRINTED		**10 53 00 1**	**10**

Dimensions		see dimensional drawing
Technical data in accordance with IEC/ DIN VDE		
Max. cross section with insertion bridge (solid/stranded)	[mm²]	10 / 10
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule without / with plastic sleeve	[mm²]	0.5 - 10 / 0.5 - 10
Multi-conductor connection (2 cond. with same cross section)		
Solid / Stranded	[mm²]	0.5 - 4 / 0.5 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.5 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6
Stripping length	[mm]	11
Internal cylindrical gauge (IEC 60 947-1)		B 6
Terminal sleeve: Thread / torque	– / [Nm]	M 4 / 1.5 - 1.8
Insulating material		PA
Inflammability class in acc. with UL 94		V0
Approval data (UL and CSA/CUL)		
Nominal voltage / current / conductor sizes	UL/CUL: [V] / [A] / AWG	600 / 65 / 24 - 6

[1]) Finger-safe protection is not guaranteeed when using the insertion bridge externally.