

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 mm², 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 mm².

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.



High Current Feed-Through Terminal Blocks

HDFK 10-HV



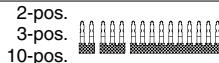
(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76	1000

• **Bus**

Technical data

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

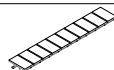
(1) **Insertion bridge¹⁾**, fully insul.,
fully insulated,
divisible, fully insulated,
2-pos. 3-pos. 10-pos.



(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

VO

Approval data (UL and CSA/CUL)

Nominal voltage / current / conductor sizes UL: [V] / [A] / AWG

600 / 65 / 24 - 6

CSA/CUL: [V] / [A] / AWG

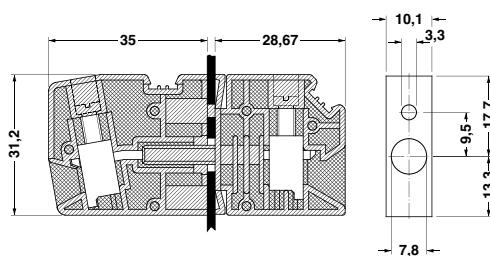
600 / 65 / 22 - 6

¹⁾ Finger-safe protection is not guaranteed 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°.



High Current Feed-Through Terminal Blocks

HDFKV 10-HV

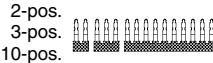


(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76	1000

Technical data

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

(1) **Insertion bridge¹⁾**, fully insul.,
fully insulated,
divisible, fully insulated,
2-pos. 3-pos. 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

VO

Approval data (UL and CSA/CUL)

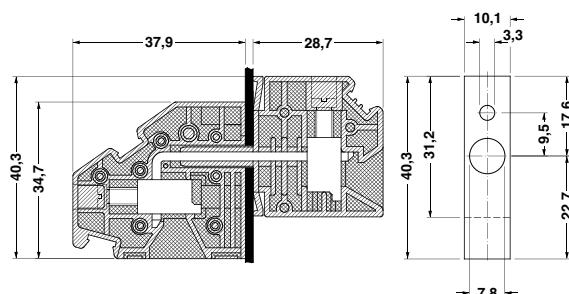
Nominal voltage / current / conductor sizes UL/CUL: [V] / [A] / AWG

600 / 65 / 24 - 6

¹⁾ Finger-safe protection is not guaranteed 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

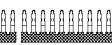
(IEC) [mm ²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.5-16	0.5-10	20-6	76*	1000

* 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 bridge¹⁾**, fully insul.,
fully insulated,
divisible, fully insulated,
2-pos. 3-pos. 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)	[mm ²]
Rated surge voltage / contamination class	[kV] / -
Surge voltage category / insulation material group	- / -

Connection capacity

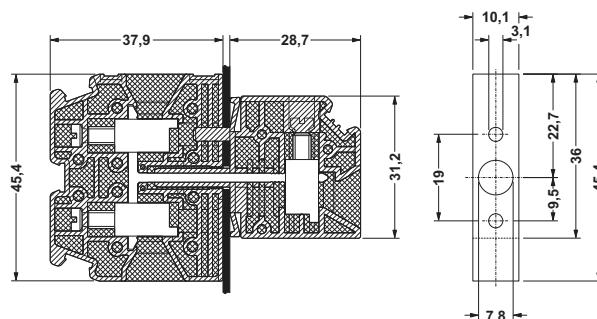
Stranded with ferrule without / with plastic sleeve	[mm ²]
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Type	Order No.	Pcs. Pkt.
HDFKV 10-TWIN-HV	07 17 24 1	50
EB 2-10	$I_{max.}$: 70 A	02 03 15 3
EB 3-10	70 A	02 03 32 8
EB 10-10	70 A	02 03 13 7
SZS 1,0 x 4,0	12 05 06 6	10
ZB 10:UNPRINTED	10 53 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	
	VO	
	600 / 65 / 24 - 6	

¹⁾ Finger-safe protection is not guaranteed 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

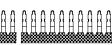
HDFK 10-VP-HV

(IEC) [mm ²]	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 bridge¹⁾**, fully insul.,
fully insulated,
divisible, fully insulated,
2-pos. 3-pos. 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

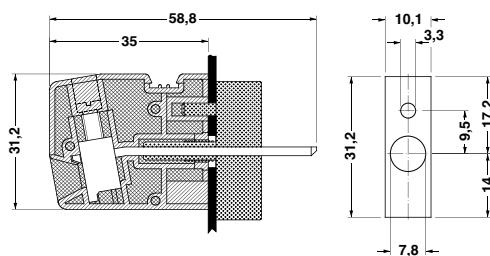
Insulating material

PA

Inflammability class in acc. with UL 94

VO

¹⁾ Finger-safe protection is not guaranteed when using the insertion bridge externally.



High Current Feed-Through Terminal Blocks

HDFKV 10-VP-HV

(IEC) [mm ²]	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 bridge¹⁾ , fully insul., fully insulated, divisible, fully insulated,	2-pos. 3-pos. 10-pos.	
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(2) Screwdriver , for actuating the tension spring	
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(3) Zack strip , 10-section, white	
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Dimensions

Technical data in accordance with IEC/ DIN VDE

Max. cross section with insertion bridge (solid/stranded)	[mm ²]
Rated surge voltage / contamination class	[kV] / -
Surge voltage category / insulation material group	- / -

Connection capacity

Stranded with ferrule without / with plastic sleeve	[mm ²]
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see dimensional drawing

Multi-conductor connection (2 cond. with same cross section)	
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Solid / Stranded	[mm ²]
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10 / 10

Stranded with ferrule without plastic sleeve	[mm ²]
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6 / 3

Stranded with TWIN ferrule with plastic sleeve	[mm ²]
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III / I

Stripping length	[mm]
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0.5 - 10 / 0.5 - 10

Internal cylindrical gauge (IEC 60 947-1)	
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0.5 - 4 / 0.5 - 4

Terminal sleeve: Thread / torque	- / [Nm]
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0.5 - 2.5

Insulating material	
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0.5 - 6

Inflammability class in acc. with UL 94	
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11

Approval data (UL and CSA/CUL)	
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B 6

Nominal voltage / current / conductor sizes	UL/CUL: [V] / [A] / AWG
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M 4 / 1.5 - 1.8

PA	
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PA

VO	
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VO

600 / 65 / 24 - 6	
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600 / 65 / 24 - 6

¹⁾ Finger-safe protection is not guaranteed when using the insertion bridge externally.

