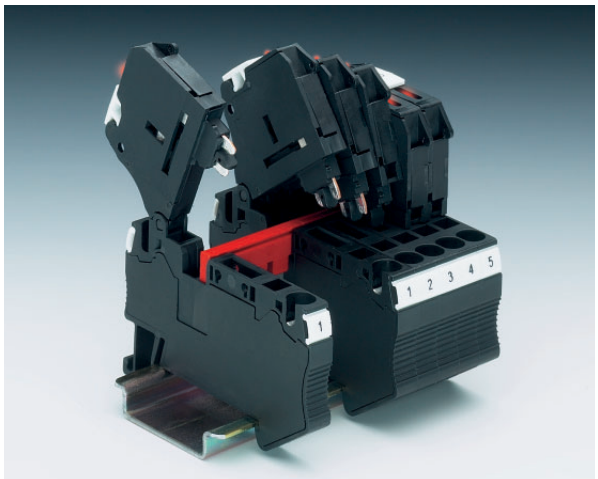
Spring Cage Fuse Terminal Blocks ST



Spring cage fuse terminal blocks from Phoenix Contact satisfy two important tasks of electrical connection systems. Firstly, they act as carriers for fuses and secondly, they assume the task of potential distribution. The universal ST bridge shaft makes continuous bridging possible between ST feed-through terminal blocks and ST fuse terminal blocks.
ST 4-HESI can be used for the 5 x 20 mm fuse format, which is a standard in electrical engineering. It is also available with a light indicator for signaling a triggered fuse.

ST 4-HESI (6,3 x 32) is characterized by the double bridge shaft located in the same position as in the entire ST series.
This opens up all options for power distribution. To make it practical to use, test connections are provided on both sides of the standardized (6.3 x 32 mm) fuse inserts. Terminal blocks with a light indicator are available to signal the triggering of a fuse.
The large-surface labeling option on the fuse lever enables fast identification of the fused circuits.

Flat-type fuses in accordance with ISO/DIS 8820/ DIN 72581-3 or alternatively the TCP thermal miniature circuit breaker can be used as the fuse element in the **ST 4-FSI/C** fuse terminal block. Terminal blocks with a light indicator are available for quick error diagnosis "at a glance". A wide range of potential distribution options can be implemented using the ST bridge shaft which is integrated in this terminal block.

Attention:
The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holders should be checked according to the application and installation.

Higher ambient temperatures
are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly.

Spring Cage Fuse Terminal Block
ST 4-HESI (5 x 20)

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
DIN VDE 0611					
with fuse	0.08-6	0.08-4	28-10	1)	1)
as disconnect term.bl.	0.08-6	0.08-4	28-10	6.3	250

1) see table below (the current is determined by the fuse used)

Technical data

		Type	Order No.	Pcs. / Pkt.
Fuse terminal block, for mounting on ⊓, for cartridge fuse inserts 5 x 20 mm	terminal width 6.2	**ST 4-HESI (5 x 20)**	**30 36 36 9**	**50**
(1) **Plug-in bridge,** for cross-connections in the terminal center	2-pos.	**FBS 2-6** $I_{max.}$: 32 A	**30 30 33 6**	**50**
	3-pos.	**FBS 3-6** 32 A	**30 30 24 2**	**50**
	4-pos.	**FBS 4-6** 32 A	**30 30 25 5**	**50**
	5-pos.	**FBS 5-6** 32 A	**30 30 34 9**	**50**
	10-pos.	**FBS 10-6** 32 A	**30 30 27 1**	**10**
	20-pos.	**FBS 20-6** 32 A	**30 30 36 5**	**10**
(2) **Partition plate,** for visual and electrical separation of terminal groups, 2 mm thick		**ATP-ST 4**	**30 30 72 1**	**50**
(3) **Screwdriver,** for actuating the tension spring		**SZF 1 - 0,6 x 3,5**	**12 04 51 7**	**10**
(4) **Zack strip,** flat, for labeling the center and outer marker grooves	white	**ZBF 6:UNPRINTED**	**08 08 71 0**	**10**
(5) **Zack strip,** 10-section, for labeling on the fuse lever	white	**ZB 5:UNPRINTED**	**10 50 00 4**	**10**

Dimensions		
Width / length	[mm]	6.2 / 61.5
Height (NS 35/7,5 / NS 35/15)	[mm]	62.5 / 70
Technical data in accordance with IEC/ DIN VDE		
Fuse type ISO/DIS 8820/DIN 72 581-3 / dimensions	– / [mm]	G / 5 x 20
Max. power dissipation		
at 23 °C based on E DIN VDE 0611-6: 2001-04	[W]	1)
Rated surge voltage / contamination class	[kV] / –	4 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 4
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	–
	CSA/CUL: [V] / [A] / AWG	–

Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit protection only	
	[V]	Single	Interconnected	Single	Interconnected
ST 4-HESI (5 x 20)	250	2.5 W	1.6 W	4.0 W	2.5 W

Spring Cage Fuse Terminal Blocks with Light Indicator

ST 4-HESILED and ST 4-HESILA (5 x 20)

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
DIN VDE 0611					
with fuse	0.08-6	0.08-4	28-10	[1])	[1])
as disconnect term.bl.	0.08-6	0.08-4	28-10	6.3	250

[1]) see table below (the current is determined by the fuse used, the voltage by the light indicator selected)
[2]) If the fuse is defective, the downstream circuit is not off load.

Technical data

			Type		Order No.	Pcs. / Pkt.
Fuse terminal block[2]), for mounting on ⊓⊔, for cartridge fuse inserts 5 x 20 mm, with light indicator for:						
15 - 30 V AC/DC,	3.5 - 8.1 mA	terminal width 6.2	**ST 4-HESILED 24**		**30 36 54 7**	**50**
30 - 60 V AC/DC,	0.8 - 2.0 mA	terminal width 6.2	**ST 4-HESILED 60**		**30 36 55 0**	**50**
110 - 250 V AC/DC,	0.5 - 1.0 mA	terminal width 6.2	**ST 4-HESILA 250**		**30 36 56 3**	**50**
(1) **Plug-in bridge,** for cross-connections in the terminal center	2-pos.		**FBS 2-6**	$I_{max.}$: 32 A	**30 30 33 6**	**50**
	3-pos.		**FBS 3-6**	32 A	**30 30 24 2**	**50**
	4-pos.		**FBS 4-6**	32 A	**30 30 25 5**	**50**
	5-pos.		**FBS 5-6**	32 A	**30 30 34 9**	**50**
	10-pos.		**FBS 10-6**	32 A	**30 30 27 1**	**10**
	20-pos.		**FBS 20-6**	32 A	**30 30 36 5**	**10**
(2) **Partition plate,** for visual and electrical separation of terminal groups, 2 mm thick			**ATP-ST 4**		**30 30 72 1**	**50**
(3) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**		**12 04 51 7**	**10**
(4) **Zack strip,** flat, for labeling the center and outer marker grooves	white		**ZBF 6:UNPRINTED**		**08 08 71 0**	**10**
(5) **Zack strip,** 10-section, for labeling on the fuse lever	white		**ZB 5:UNPRINTED**		**10 50 00 4**	**10**

Dimensions		
Width / length	[mm]	6.2 / 61.5
Height (NS 35/7,5 / NS 35/15)	[mm]	62.5 / 70
Technical data in accordance with IEC/ DIN VDE		
Fuse type ISO/DIS 8820/DIN 72 581-3 / dimensions	– / [mm]	G / 5 x 20
Max. power dissipation		
at 23 °C based on E DIN VDE 0611-6: 2001-04	[W]	[1])
Rated surge voltage / contamination class	[kV] / –	4 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 4
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	–
	CSA/CUL: [V] / [A] / AWG	–

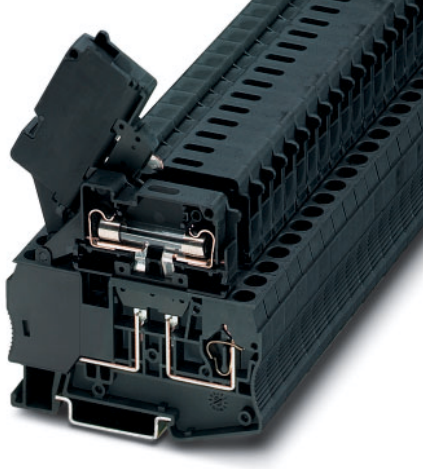
Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit protection only	
	[V]	Single	Interconnected	Single	Interconnected
ST 4-HESI...	250	2.5 W	1.6 W	4.0 W	2.5 W

Spring Cage Fuse Terminal Block
ST 4-HESI (6,3 x 32)



(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-3	0.08-6	0.08-4	28-10	10*	400*

* Current and voltage are determined by the fuse used.

Technical data

		Type	Order No.	Pcs. / Pkt.
Fuse terminal block, for mounting on ⊓, for cartridge fuse inserts 6.3 x 32 mm, black	terminal width 8.2	**ST 4-HESI (6,3 x 32)**	**30 36 38 5**	**50**
(1) **Plug-in bridge,** for cross-connections in the terminal center	2-pos.	**FBS 2-8** $I_{max.}$: 32 A	**30 30 28 4**	**10**
	3-pos.	**FBS 3-8** 32 A	**30 30 29 7**	**10**
	4-pos.	**FBS 4-8** 32 A	**30 30 30 7**	**10**
	5-pos.	**FBS 5-8** 32 A	**30 30 31 0**	**10**
	10-pos.	**FBS 10-8** 32 A	**30 30 32 3**	**10**
(2) **Partition plate,** for visual and electrical separation of terminal groups, 2 mm thick		**ATP-QTC TWIN**	**32 06 21 2**	**50**
(3) **Adapter bridge,** for connecting an ST 4-HESI (6,3 x 32) to an ST 4, ST 2,5 or QTC 1,5		**RB ST 6-(2,5/4)**	**30 30 86 0**	**50**
(4) **Screwdriver,** for actuating the tension spring		**SZF 1 - 0,6 x 3,5**	**12 04 51 7**	**10**
(5) **Zack strip,** flat, for labeling the center and outer marker grooves	white	**ZBF 8:UNPRINTED**	**08 08 78 1**	**10**
(6) **Zack strip,** 10-section, for labeling on the fuse lever	white	**ZB 6:UNPRINTED**	**10 51 00 3**	**10**

Dimensions		
Width / length	[mm]	8.2 / 76.5
Height (NS 35/7,5 / NS 35/15)	[mm]	69 / 76.5
Technical data in accordance with IEC/ DIN VDE		
Fuse type ISO/DIS 8820/DIN 72 581-3 / dimensions	– / [mm]	G / 6 x 32
Maximum current with single arrangement	[A]	10
Max. power dissipation		
at 23 °C based on E DIN VDE 0611-6: 2001-04	[W]	see table
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 4
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	applied for 600 / 10 / 24-10
	CSA/CUL: [V] / [A] / AWG	applied for 600 / 10 / 24-10

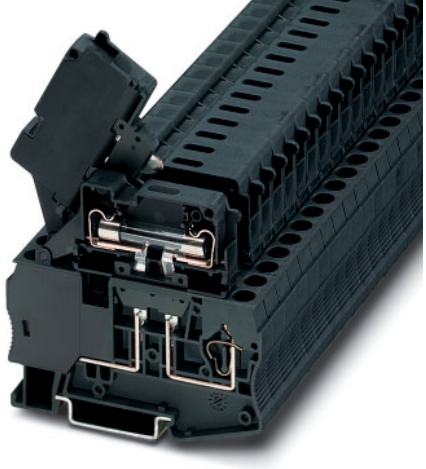
Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)
When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit protection only		$I_{max.}$
	[V]	Single	Interconnected	Single	Interconnected	[A]
ST 4-HESI (6,3 x 32)	400	1.6 W	1.6 W	4.0 W	2.5 W	10

Spring Cage Fuse Terminal Block

ST 4-HESILED and ST 4-HESILA (6,3 x 32)



(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-3	0.08-6	0.08-4	28-10	10*	400*

* Current and voltage are determined by the fuse used.
[1]) If the fuse is defective, the downstream circuit is not off load.

Technical data

			Type		Order No.	Pcs. / Pkt.
Fuse terminal block[1]**),** for mounting on ⊓⊔, for cartridge fuse inserts 6 x 32 mm, with light indicator for:						
15 - 30 V AC/DC,	1 - 2.5 mA	terminal width 8.2	**ST 4-HESILED 24 (6,3 x 32)**		**30 38 76 5**	**50**
110 - 250 V AC/DC,	0.5 - 2.5 mA	terminal width 8.2	**ST 4-HESILA 250 (6,3 x 32)**		**30 38 77 8**	**50**
(1) **Plug-in bridge,** for cross-connections in the terminal center	2-pos.		**FBS 2-8**	$I_{max.}$: 32 A	**30 30 28 4**	**10**
	3-pos.		**FBS 3-8**	32 A	**30 30 29 7**	**10**
	4-pos.		**FBS 4-8**	32 A	**30 30 30 7**	**10**
	5-pos.		**FBS 5-8**	32 A	**30 30 31 0**	**10**
	10-pos.		**FBS 10-8**	32 A	**30 30 32 3**	**10**
(2) **Partition plate,** for visual and electrical separation of terminal groups, 2 mm thick			**ATP-QTC TWIN**		**32 06 21 2**	**50**
(3) **Adapter bridge,** for connecting an ST 4-HESI (6,3 x 32) to an ST 4, ST 2,5 or QTC 1,5			**RB ST 6-(2,5/4)**		**30 30 86 0**	**50**
(4) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**		**12 04 51 7**	**10**
(5) **Zack strip,** flat, for labeling the center and outer marker grooves	white		**ZBF 8:UNPRINTED**		**08 08 78 1**	**10**
(6) **Zack strip,** 10-section, for labeling on the fuse lever	white		**ZB 6:UNPRINTED**		**10 51 00 3**	**10**

Dimensions		
Width / length	[mm]	8.2 / 76.5
Height (NS 35/7,5 / NS 35/15)	[mm]	69 / 76.5
Technical data in accordance with IEC/ DIN VDE		
Fuse type ISO/DIS 8820/DIN 72 581-3 / dimensions	– / [mm]	G / 6 x 32
Maximum current with single arrangement	[A]	10
Max. power dissipation		
at 23 °C based on E DIN VDE 0611-6: 2001-04	[W]	see table
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 4
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	applied for 600 / 10 / 24-10
	CSA/CUL: [V] / [A] / AWG	applied for 600 / 10 / 24-10

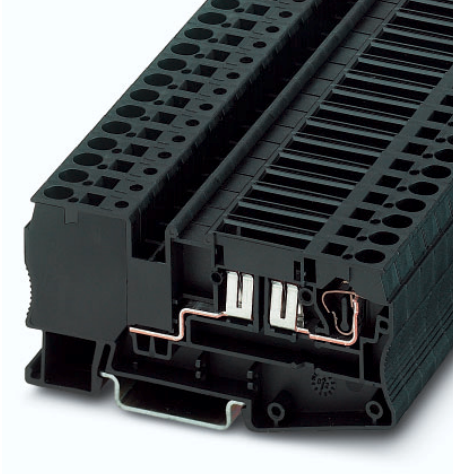
Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit protection only		$I_{max.}$
	[V]	Single	Interconnected	Single	Interconnected	[A]
ST 4-HESI (6,3 x 32)	400	1.6 W	1.6 W	4.0 W	2.5 W	10

Spring Cage Fuse Terminal Block
ST 4-FSI/C



(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.08-6	0.08-4	28-10	30	400

Technical data

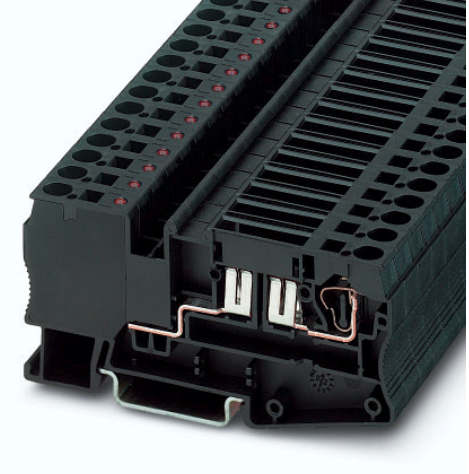
		Type	Order No.	Pcs. Pkt.
Fuse terminal block, for mounting on ⊓⊔,	terminal width 8.2	**ST 4-FSI/C**	**30 36 37 2**	**50**
(1) **Insulating stop sleeve,** prevents unintentional clamping of the insulation in the case of smaller cross sections				
Cross section range:	0.25-0,5 mm² gray	**ISH 4/0,5**	**30 02 88 5**	**50**
	0.75-1 mm² black	**ISH 4/1**	**30 02 89 8**	**50**
(2) **Plug-in bridge,** for cross-connections in the terminal center	2-pos.	**FBS 2-8** $I_{max.}$: 41 A	**30 30 28 4**	**10**
	3-pos.	**FBS 3-8** 41 A	**30 30 29 7**	**10**
	4-pos.	**FBS 4-8** 41 A	**30 30 30 7**	**10**
	5-pos.	**FBS 5-8** 41 A	**30 30 31 0**	**10**
	10-pos.	**FBS 10-8** 41 A	**30 30 32 3**	**10**
(3) **Test adapter,** for 4 mm ∅ test plug PS and 4 mm ∅ safety test plugs, making contact in the bridge shaft		**PAI 4**	**30 30 92 5**	**10**
(4) **2.3 mm ∅ test plug** [1]**),** consisting of metal part and red insulating sleeve		**MPS-RD**	**02 01 55 3**	**10**
(5) **Screwdriver,** for actuating the tension spring		**SZF 1 - 0,6 x 3,5**	**12 04 51 7**	**10**
(6) **Zack strip,** flat, for labeling the center and outer marker grooves	white	**ZBF 8:UNPRINTED**	**08 08 78 1**	**10**
(7) **Zack strip,** 10-section, for labeling in the terminal center	white	**ZB 8:UNPRINTED**	**10 52 00 2**	**10**

Dimensions		
Width / length	[mm]	8.2 / 86.5
Height (NS 35/7,5 / NS 35/15)	[mm]	43.5 / 51
Technical data in accordance with IEC/ DIN VDE		
Fuse type ISO/DIS 8820/DIN 72 581-3	–	C
Maximum current with single arrangement	[A]	30
Max. power dissipation		
at 23 °C based on E DIN VDE 0611-6: 2001-04	[W]	[1])
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 4
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	–
	CSA/CUL: [V] / [A] / AWG	–

[1]) On request.

Spring Cage Fuse Terminal Blocks with Light Indicator

ST 4-FSI/C-LED



(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data	0.08-6	0.08-4	28-10	30	400

Technical data

		Type	Order No.	Pcs. / Pkt.
Fuse terminal block[1]**),** for mounting on ⊓⊔, with light indicator for:				
12 V DC,	2.0 mA terminal width 8.2	**ST 4-FSI/C-LED 12**	**30 36 49 5**	**50**
24 V DC,	2.0 mA terminal width 8.2	**ST 4-FSI/C-LED 24**	**30 36 50 5**	**50**
(1) **Insulating stop sleeve,** prevents unintentional clamping of the insulation in the case of smaller cross sections				
Cross section range:	0.25-0.5 mm² gray	**ISH 4/0,5**	**30 02 88 5**	**50**
	0.75-1 mm² black	**ISH 4/1**	**30 02 89 8**	**50**
(2) **Plug-in bridge,** for cross-connections in the terminal center	2-pos.	**FBS 2-8** I_{max}: 41 A	**30 30 28 4**	**10**
	3-pos.	**FBS 3-8** 41 A	**30 30 29 7**	**10**
	4-pos.	**FBS 4-8** 41 A	**30 30 30 7**	**10**
	5-pos.	**FBS 5-8** 41 A	**30 30 31 0**	**10**
	10-pos.	**FBS 10-8** 41 A	**30 30 32 3**	**10**
(3) **Test adapter,** for 4 mm ∅ test plug PS and 4 mm ∅ safety test plugs, making contact in the bridge shaft		**PAI 4**	**30 30 92 5**	**10**
(4) **2.3 mm ∅ test plug** [1]**),** consisting of metal part and red insulating sleeve		**MPS-RD**	**02 01 55 3**	**10**
(5) **Screwdriver,** for actuating the tension spring		**SZF 1 - 0,6 x 3,5**	**12 04 51 7**	**10**
(6) **Zack strip,** flat, for labeling the center and outer marker grooves	white	**ZBF 8:UNPRINTED**	**08 08 78 1**	**10**
(7) **Zack strip,** 10-section, for labeling in the terminal center	white	**ZB 8:UNPRINTED**	**10 52 00 2**	**10**

Dimensions		
Width / length	[mm]	8.2 / 86.5
Height (NS 35/7.5 / NS 35/15)	[mm]	43.5 / 51
Technical data in accordance with IEC/ DIN VDE		
Fuse type ISO/DIS 8820/DIN 72 581-3	–	C
Maximum current with single arrangement	[A]	30
Max. power dissipation		
at 23 °C based on E DIN VDE 0611-6: 2001-04	[W]	[2])
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 4
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 4
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	–
	CSA/CUL: [V] / [A] / AWG	–

[1]) If the fuse is defective, the downstream circuit is not off load.
[2]) On request.