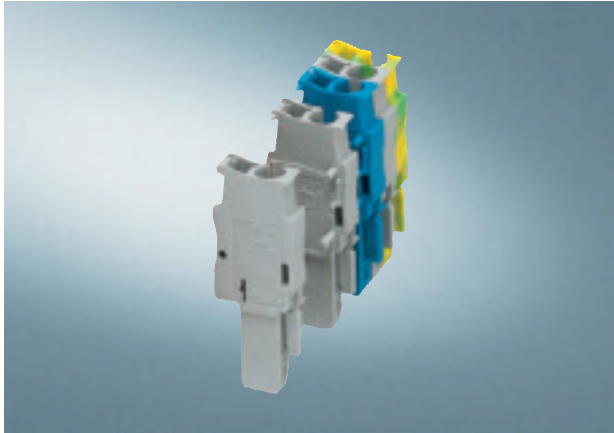


ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals

Plugs

Overview

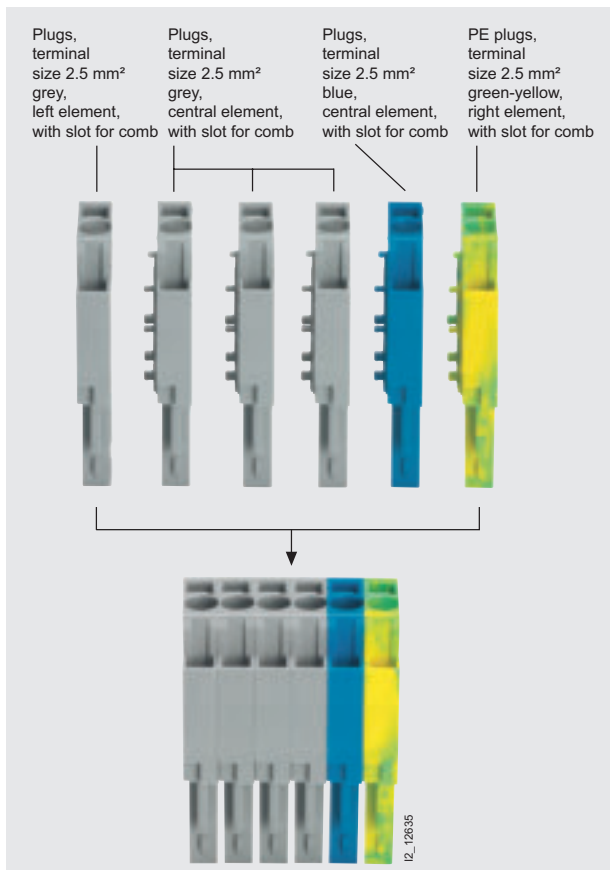


Assembled by the user from single-terminal elements, the combination plug-in connectors in kit form provide a custom solution for every task. The connector is assembled with 1-pin connector elements acc. to user's requests.

For the existing plugs with terminal sizes 2.5 mm² and 4 mm², and the plug with comb connection and terminal size 2.5 mm², single-terminal elements in the colors gray, blue and green-yellow are available.

3

Design



For each multi-pin plug, a left and a right element are needed for the two ends of the assembled connector. The number of middle elements depends on the plug's required number of pins. The individual elements are simply pushed together and engage with securing pins.

Example for a 6-pin plug

ALPHA FIX Terminal Blocks

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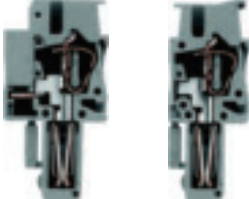
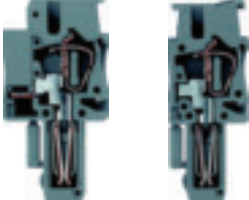
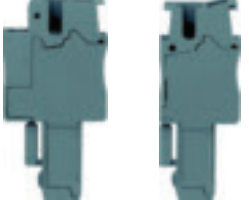
Plugs

Technical specifications

	8WH9 040-1AB00 /-1AB01 /-1BB00 /-1BB01 /-1CB00 /-1CB01 /-1DB00 /-1DB01 /-1EB00 /-1EB01 /-1FB00 /-1FB01	8WH9 040-1AB07 /-1BB07 /-1CB07 /-1DB07/-1EB07 /-1FB07	8WH9 050-1KB00 /-1KB01 /-1LB00 /-1LB01 /-1MB00 /-1MB01	8WH9 050-1KB07 /-1LB07 /-1MB07
Dimensions				
• Width / length / width of cover in mm	-			
• Height (NS 35/7.5 / NS 35/15) in mm	-			
Technical specifications according to IEC/DIN VDE				
• Max. load current ¹⁾ per cross-section in A/mm ²	24 / 4		32 / 6	
• Rated impulse withstand voltage/pollution degree in kV / -	6 / 3		8 / 3	
• Overvoltage category/insulating group - / -	III / I			
Connection capacities				
• Flexible with ferrule with plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible without ferrule with plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with TWIN ferrule with plastic sleeve in mm ²	0.5		0.5 ... 1	
Stripped length	10			
Plug gage (IEC 60947-1)	A3		A4	
Insulation type	PA			
• Flammability class according to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Nominal voltage/current / cable sizes	600 / 20 / 26-12		Applied for	
- UL/CUL: in V/A / AWG			Applied for	
- CSA: in V/A / AWG				
Mounting rail/protective conductor busbars			See section Mounting rails	See section Mounting rails

¹⁾ For higher temperatures and/or multipin combination plug-in terminals a derating as for load current is necessary.

Selection and ordering data







Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
Terminal size 2.5 mm²				
	Plugs, terminal size 2.5 mm²			
	<ul style="list-style-type: none"> Terminal width 5.2 mm • Gray • Supply data <ul style="list-style-type: none"> - Solid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 24 A - U = 500 V • Number of pins = 1 			
	Versions			
	<ul style="list-style-type: none"> • Gray <ul style="list-style-type: none"> - Left element, with slot for comb - Central element, with slot for comb - Right element, with slot for comb - Left element, without slot for comb - Central element, without slot for comb - Right element, without slot for comb • Blue <ul style="list-style-type: none"> - Left element, with slot for comb - Central element, with slot for comb - Right element, with slot for comb - Left element, without slot for comb - Central element, without slot for comb - Right element, without slot for comb 			
8WH9 040-1DB00 / -1AB00	8WH9 040-1DB00		044	50
	8WH9 040-1EB00		044	50
	8WH9 040-1FB00		044	50
	8WH9 040-1AB00		044	50
	8WH9 040-1BB00		044	50
	8WH9 040-1CB00		044	50
	8WH9 040-1DB01		044	50
	8WH9 040-1EB01		044	50
	8WH9 040-1FB01		044	50
	8WH9 040-1AB01		044	50
	8WH9 040-1BB01		044	50
	8WH9 040-1CB01		044	50
	Accessories			
	Connecting combs, for terminal width 5.2 mm	Section	Page	
	• 2-pole	Accessories	3/29	8WH9 020-6BC10
	• 3-pole	Accessories	3/29	8WH9 020-6BD10
	• 4-pole	Accessories	3/29	8WH9 020-6BE10
	• 5-pole	Accessories	3/29	8WH9 020-6BF10
	• 10-pole	Accessories	3/29	8WH9 020-6BL10
	• 20-pole	Accessories	3/29	8WH9 020-6BS10
	• 50-pole	Accessories	3/29	8WH9 020-6BT10
	Latches			
	• With strain relief	Accessories	3/29	8WH9 050-2BA04
	• Without strain relief	Accessories	3/29	8WH9 050-2AA04
8WH9 040-1FB00 / -1CB00			044	50
			044	50

ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals

Plugs








3

Version		Order No.	Price	PG	PS* P. unit									
			1 unit		Unit(s)									
 <p>PE plugs, terminal size 2.5 mm²</p> <ul style="list-style-type: none"> • Green-yellow • Terminal width 5.2 mm • UL • Supply data <ul style="list-style-type: none"> - Solid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 24 A - U = 500 V • Number of pins = 1 														
8WH9 040-1DB07 / -1AB07														
 <p>Versions</p> <ul style="list-style-type: none"> • Left element, with slot for comb • Central element, with slot for comb • Right element, with slot for comb • Left element, without slot for comb • Central element, without slot for comb • Right element, without slot for comb 		8WH9 040-1DB07 8WH9 040-1EB07 8WH9 040-1FB07 8WH9 040-1AB07 8WH9 040-1BB07 8WH9 040-1CB07		044	50									
8WH9 040-1EB07 / -1BB07														
 <p>Accessories</p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• With strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> <tr> <td>• Without strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> </tbody> </table> <p>Latches</p> <ul style="list-style-type: none"> • With strain relief • Without strain relief 		Accessories	Section	Page	• With strain relief	Accessories	3/29	• Without strain relief	Accessories	3/29	8WH9 050-2BA04 8WH9 050-2AA04		044	50
Accessories	Section	Page												
• With strain relief	Accessories	3/29												
• Without strain relief	Accessories	3/29												
8WH9 040-1FB07 / -1CB07														
Terminal size 4 mm²														
 <p>Plugs, terminal size 4 mm², without slot for comb</p> <ul style="list-style-type: none"> • Terminal width 6.2 mm • Supply data <ul style="list-style-type: none"> - Solid, 0.08 ... 6 mm² - Flexible, 0.08 ... 24 mm² - AWG 28-10 - I = 32 A - U = 800 V • Number of pins = 1 														
8WH9 040-1KB00														
 <p>Versions</p> <ul style="list-style-type: none"> • Gray <ul style="list-style-type: none"> - Left element - Center element - Right element • Blue <ul style="list-style-type: none"> - Left element - Center element - Right element 		8WH9 040-1KB00 8WH9 040-1LB00 8WH9 040-1MB00 8WH9 040-1KB01 8WH9 040-1LB01 8WH9 040-1MB01		044	50									
8WH9 040-1LB00														
 <p>Accessories</p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• With strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> <tr> <td>• Without strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> </tbody> </table> <p>Latches</p> <ul style="list-style-type: none"> • With strain relief • Without strain relief 		Accessories	Section	Page	• With strain relief	Accessories	3/29	• Without strain relief	Accessories	3/29	8WH9 050-2BA04 8WH9 050-2AA04		044	50
Accessories	Section	Page												
• With strain relief	Accessories	3/29												
• Without strain relief	Accessories	3/29												
8WH9 040-1MB00														

ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals




Plugs

Version		Order No.	Price	PG	PS* P. unit
			1 unit		Unit(s)
	PE plugs, terminal size 4 mm², without slot for comb <ul style="list-style-type: none"> Green-yellow Terminal width 6.2 mm Supply data <ul style="list-style-type: none"> Solid, 0.08 ... 6 mm² Flexible, 0.08 ... 24 mm² AWG 28-10 I = 32 A U = 800 V Number of pins = 1 				50
8WH9 040-1KB07	Versions <ul style="list-style-type: none"> Left element Center element Right element 	8WH9 040-1KB07 8WH9 040-1LB07 8WH9 040-1MB07		044	50
	Accessories	Section	Page		
8WH9 040-1LB07	Latches <ul style="list-style-type: none"> With strain relief Without strain relief 	Accessories	3/29		50
		Accessories	3/29		50
					
8WH9 040-1MB07					
Accessories					
	Labeling plates, flat, for terminal width 5.2 mm, horizontal inscription <ul style="list-style-type: none"> Incremental numbering <ul style="list-style-type: none"> 1 to 10 (10x) 11 to 20 (10x) 21 to 30 (10x) 31 to 40 (10x) 41 to 50 (10x) 51 to 60 (10x) 61 to 70 (10x) 71 to 80 (10x) 81 to 90 (10x) 91 to 100 (10x) Custom inscription 				
8WH8 121-2AB05		8WH8 121-2AB05 8WH8 121-2AB15 8WH8 121-2AB25 8WH8 121-2AB35 8WH8 121-2AB45 8WH8 121-2AB55 8WH8 121-2AB65 8WH8 121-2AB75 8WH8 121-2AB85 8WH8 121-2AC05 8WH8 121-2XA05		044	100
	Labeling plates, flat, for terminal width 5.2 mm, vertical inscription <ul style="list-style-type: none"> Incremental numbering <ul style="list-style-type: none"> 1 to 10 (10x) 11 to 20 (10x) 21 to 30 (10x) 31 to 40 (10x) 41 to 50 (10x) 51 to 60 (10x) 61 to 70 (10x) 71 to 80 (10x) 81 to 90 (10x) 91 to 100 (10x) Custom inscription 				
8WH8 141-2AB05		8WH8 141-2AB05 8WH8 141-2AB15 8WH8 141-2AB25 8WH8 141-2AB35 8WH8 141-2AB45 8WH8 141-2AB55 8WH8 141-2AB65 8WH8 141-2AB75 8WH8 141-2AB85 8WH8 141-2AC05 8WH8 141-2XA05		044	100
	Labeling plates, flat, for terminal width 5.2 mm, blank				
8WH8 111-2AA05		8WH8 111-2AA05		044	100
	Labeling plates, flat, for terminal width 6.2 mm, horizontal inscription <ul style="list-style-type: none"> Incremental numbering <ul style="list-style-type: none"> 1 to 10 (10x) 11 to 20 (10x) 21 to 30 (10x) 31 to 40 (10x) 41 to 50 (10x) 51 to 60 (10x) 61 to 70 (10x) 71 to 80 (10x) 81 to 90 (10x) 91 to 100 (10x) Custom inscription 				
8WH8 121-3AB05		8WH8 121-3AB05 8WH8 121-3AB15 8WH8 121-3AB25 8WH8 121-3AB35 8WH8 121-3AB45 8WH8 121-3AB55 8WH8 121-3AB65 8WH8 121-3AB75 8WH8 121-3AB85 8WH8 121-3AC05 8WH8 121-3XA05		044	100

ALPHA FIX Terminal Blocks

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Plugs

Version	Order No.	Price	PG	PS* P. unit	
		1 unit		Unit(s)	
 8WH8 141-3AB05	Labeling plates, flat, for terminal width 6.2 mm, vertical inscription				
	• Incremental numbering				
		8WH8 141-3AB05		044	100
		8WH8 141-3AB15		044	100
		8WH8 141-3AB25		044	100
		8WH8 141-3AB35		044	100
		8WH8 141-3AB45		044	100
		8WH8 141-3AB55		044	100
		8WH8 141-3AB65		044	100
		8WH8 141-3AB75		044	100
		8WH8 141-3AB85		044	100
		8WH8 141-3AC05		044	100
		8WH8 141-3XA05		044	100
		• Custom inscription			
 8WH8 111-3AA05	Labeling plates, flat, for terminal width 6.2 mm, blank				
	8WH8 111-3AA05		044	100	
	Connecting combs, for terminal width 5.2 mm				
	• 2-pole				
		8WH9 020-6BC10		044	50
	• 3-pole				
		8WH9 020-6BD10		044	50
	• 4-pole				
		8WH9 020-6BE10		044	50
	• 5-pole				
	8WH9 020-6BF10		044	50	
• 10-pole					
	8WH9 020-6BL10		044	10	
• 20-pole					
	8WH9 020-6BS10		044	10	
• 50-pole					
	8WH9 020-6BT10		044	10	
 8WH9 050-2BA04	Latches				
	Number of poles: 2				
		8WH9 050-2BA04		044	50
	8WH9 050-2AA04		044	50	

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