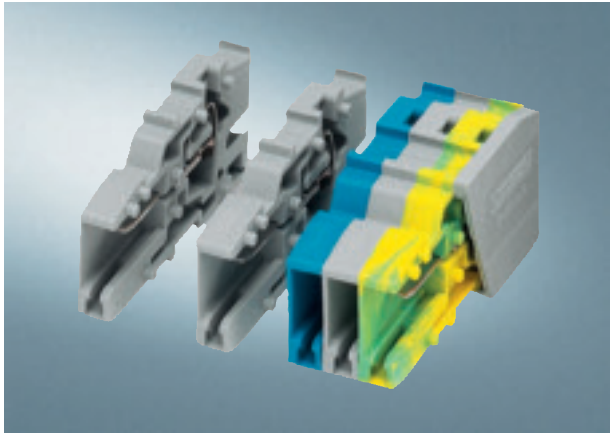


ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals

Plug-in receptacles

Overview

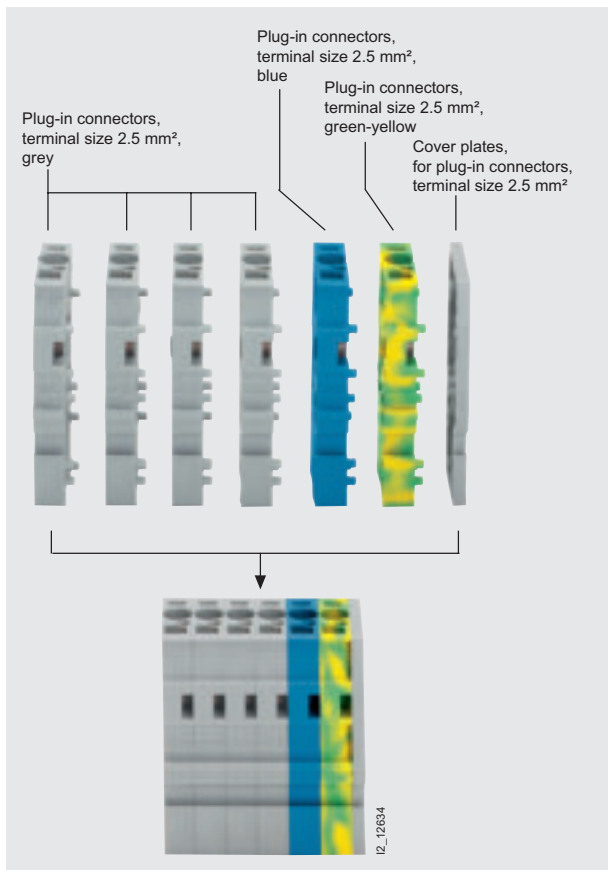


Assembled by the user from single-pin elements, the plug-in connectors in kit form provide a custom solution for every task. The connector is assembled with 1-pin connector elements according to user's requests.

The basic single-pin connector elements are available in the colors gray, blue and green-yellow.

3

Design



Example for a 6-pin connector

For each multi-pin connector, the required number of single-connector elements and one cover plate are needed. The individual elements and the cover plate are simply pushed together and engage with securing pins.

When assembling connectors for direct installation, an element with securing pins should be fitted at each end of the connector. For longer connectors, it is advisable to use an element with securing pins for at least every sixth element.

To ensure that the elements engage securely, the holes must be burr-free.

ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals

Plug-in receptacles

Technical specifications

	8WH9 050-0LB00 / -0LB01	8WH9 050-0LB07	8WH9 050-0AB00 / -0AB01	8WH9 050-0AB07
Dimensions				
• Width / length / width of cover in mm	5.2 / 37.2 / 2.2		6.2 / 48.6 / 3.2	
• Height (NS 35/7.5 / NS 35/15) in mm	18		22.3	
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		III / I	
Connection capacity				
• 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		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 - UL/CUL: in V/A / AWG - CSA: in V/A / AWG	600 / 20 / 26-12 -		Applied for Applied for	
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				
	Plug-in connectors, terminal size 2.5 mm²			
	<ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm •  us • 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 050-0LB00	Versions			
	<ul style="list-style-type: none"> • Gray • Blue 	8WH9 050-0LB00 8WH9 050-0LB01	044 044	50 50
	Accessories	Section	Page	
	Cover plates, for terminal size 2.5 mm²	Accessories	3/23	8WH9 000-7LA00
	Plug-in PE connectors, terminal size 2.5 mm²			
	<ul style="list-style-type: none"> • Green-yellow • Terminal width 5.2 mm •  us • 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 050-0LB07	Versions			
				8WH9 050-0LB07
	Accessories	Section	Page	
	Cover plates, for terminal size 2.5 mm²	Accessories	3/23	8WH9 000-7LA00
				044
				50

ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals



Plug-in receptacles

Version	Order No.	Price	PG	PS* P. unit			
		1 unit		Unit(s)			
Terminal size 4 mm²							
 <p>8WH9 050-0AB00</p>	Plug-in connectors, terminal size 4 mm² <ul style="list-style-type: none"> • Gray • 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 						
	Versions <ul style="list-style-type: none"> • Gray 8WH9 050-0AB00 044 50 • Blue 8WH9 050-0AB01 044 50 						
	Accessories <table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Cover plates, for terminal size 4 mm²</td> <td>3/23</td> </tr> </tbody> </table>				Section	Page	Cover plates, for terminal size 4 mm ²
Section	Page						
Cover plates, for terminal size 4 mm ²	3/23						
 <p>8WH9 050-0AB00</p>	Plug-in PE connectors, terminal size 4 mm² <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 						
	Versions <ul style="list-style-type: none"> • Green-yellow 8WH9 050-0AB07 044 50 						
	Accessories <table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Cover plates, for terminal size 4 mm²</td> <td>3/23</td> </tr> </tbody> </table>				Section	Page	Cover plates, for terminal size 4 mm ²
Section	Page						
Cover plates, for terminal size 4 mm ²	3/23						
Accessories							
Cover plates <ul style="list-style-type: none"> Gray • For terminal size 2.5 mm² 8WH9 000-7LA00 044 50 • For terminal size 4 mm² 8WH9 003-7LA00 044 50 							
 <p>8WH8 121-2AB15</p>	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) 8WH8 121-2AB05 044 100 - 11 to 20 (10x) 8WH8 121-2AB15 044 100 - 21 to 30 (10x) 8WH8 121-2AB25 044 100 - 31 to 40 (10x) 8WH8 121-2AB35 044 100 - 41 to 50 (10x) 8WH8 121-2AB45 044 100 - 51 to 60 (10x) 8WH8 121-2AB55 044 100 - 61 to 70 (10x) 8WH8 121-2AB65 044 100 - 71 to 80 (10x) 8WH8 121-2AB75 044 100 - 81 to 90 (10x) 8WH8 121-2AB85 044 100 - 91 to 100 (10x) 8WH8 121-2AC05 044 100 • Custom inscription 8WH8 121-2XA05 044 100 						
	 <p>8WH8 141-2AB05</p>	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) 8WH8 141-2AB05 044 100 - 11 to 20 (10x) 8WH8 141-2AB15 044 100 - 21 to 30 (10x) 8WH8 141-2AB25 044 100 - 31 to 40 (10x) 8WH8 141-2AB35 044 100 - 41 to 50 (10x) 8WH8 141-2AB45 044 100 - 51 to 60 (10x) 8WH8 141-2AB55 044 100 - 61 to 70 (10x) 8WH8 141-2AB65 044 100 - 71 to 80 (10x) 8WH8 141-2AB75 044 100 - 81 to 90 (10x) 8WH8 141-2AB85 044 100 - 91 to 100 (10x) 8WH8 141-2AC05 044 100 • Custom inscription 8WH8 141-2XA05 044 100 					
		Labeling plates, flat, for terminal width 5.2 mm, blank 8WH8 111-2AA05 044 100					
		 <p>8WH8 121-3AB05</p>	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) 8WH8 121-3AB05 044 100 - 11 to 20 (10x) 8WH8 121-3AB15 044 100 - 21 to 30 (10x) 8WH8 121-3AB25 044 100 - 31 to 40 (10x) 8WH8 121-3AB35 044 100 - 41 to 50 (10x) 8WH8 121-3AB45 044 100 - 51 to 60 (10x) 8WH8 121-3AB55 044 100 - 61 to 70 (10x) 8WH8 121-3AB65 044 100 - 71 to 80 (10x) 8WH8 121-3AB75 044 100 - 81 to 90 (10x) 8WH8 121-3AB85 044 100 - 91 to 100 (10x) 8WH8 121-3AC05 044 100 • Custom inscription 8WH8 121-3XA05 044 100 				

ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals

Plug-in receptacles

Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
 <p>Labeling plates, flat, for terminal width 6.2 mm, vertical inscription</p> <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 	<p>8WH8 141-3AB05</p> <p>8WH8 141-3AB15</p> <p>8WH8 141-3AB25</p> <p>8WH8 141-3AB35</p> <p>8WH8 141-3AB45</p> <p>8WH8 141-3AB55</p> <p>8WH8 141-3AB65</p> <p>8WH8 141-3AB75</p> <p>8WH8 141-3AB85</p> <p>8WH8 141-3AC05</p> <p>8WH8 141-3XA05</p>		044	100
8WH8 141-3AB05				
 <p>Labeling plates, flat, for terminal width 6.2 mm, blank</p>	8WH8 111-3AA05		044	100
8WH8 111-3AA05				