



**RAST 5 Connector System  
for PC Board applications**

**Clearly In Color**



## Fully integrated in the heating and home appliance industries



With their connector systems and connectors such as **RAST 5**, the Wieland Group is among the leading suppliers in numerous sectors, especially the heating industry.

Electrical appliances in the home are subject to strict standards regarding fire protection and fire resistance. This "more stringent glow-wire test" is defined in the standard EN 60335-1 and is valid for new designs in this area. In order to fulfill these high fire-protection requirements, highly flame-resistant plastics must be used for certain products.

Wieland Electric addressed this problem early on and provides corresponding customer solutions in their product range. In particular the PC board connectors of the **RAST 5** series fulfill the requirements of the heating industry and are available in a variety of defined color and fixed codings.

### PC board connectors in the RAST 5 system


The **RAST 5** system consists of two parts: pluggable parts on the wiring side as well as solderable parts, also called pin connectors, on the PC board side.

In addition to touch protection of the live side, this has the advantage of a variety of coding possibilities with latches and colors. Mismatching is virtually impossible.



















































Along with the coding cams and locking positions, the **RAST 5** system also has a standardized connector face that is defined by the **RAST 5** standard.



# Combination possibilities

 = combinable



 	 MS 9401 to MS 9406, MS 9481 (SMD) *) Fig. MS 9401	 MS 9411 to MS 9415 *) Fig. MS 9412	 MS 9421 to MS 9424 *) Fig. MS 9421	 MF 9431 to MF 9434 *) Fig. MF 9431	 MSF 9441 to MSF 9444 *) Fig. MSF 9441
 <b>8105 B</b>					
 <b>8105 B VL</b>					
 <b>8105 B VR</b>					
 <b>8105 B VL A</b>					
 <b>8105 B VR A</b>					
 <b>8105 FU</b>					
 <b>8105 FU VL</b>					
 <b>8105 FU VR</b>					
 <b>8105 FU VL A</b>					
 <b>8105 FU VR A</b>					
 <b>8105 FUE VR</b>					
 <b>8105 FUE VL</b>					

\*) Customer-specific pin connectors, for details please contact the STOCKO Contact company

www.stocko-contact.com

E-mail: info@stocko-contact.com

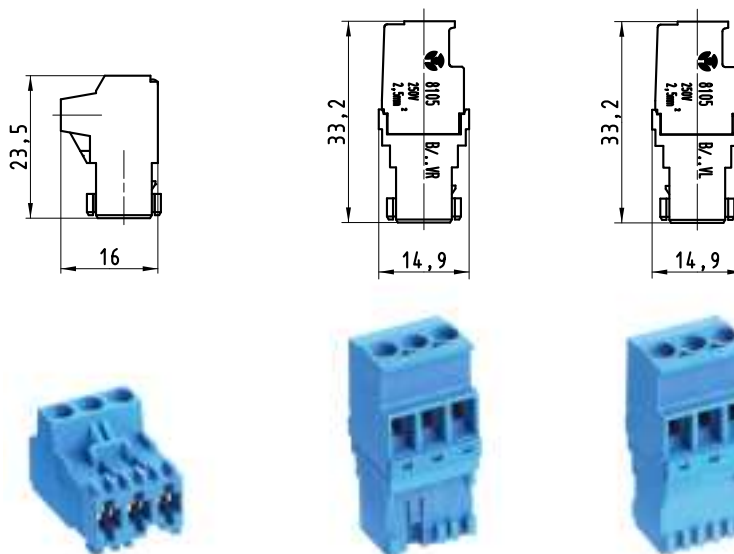
Phone: +49 202 9733-0



## Connectors with socket contact

	No-flame material	Standard material
Pebble gray		X
Sulfur yellow	X	
Rapeseed yellow	X	
Salmon orange	X	
Dusky pink	X	
Pastel violet	X	
Light blue	shown	
Moss green	X	
Light green	X	
Sliver gray	X	
Slate gray	X	
Black gray	X	
Gray brown	X	
Pure white	15.xxx.xxx.2	

Color coding see page 9



### 8105 B

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup> 10 A
300 V	300 V	250 V

### 8105 B VR

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup> 10 A
300 V	300 V	250 V

### 8105 B VL

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup> 10 A
300 V	300 V	250 V

Rated cross section

Rated current, A

Rated voltage, V

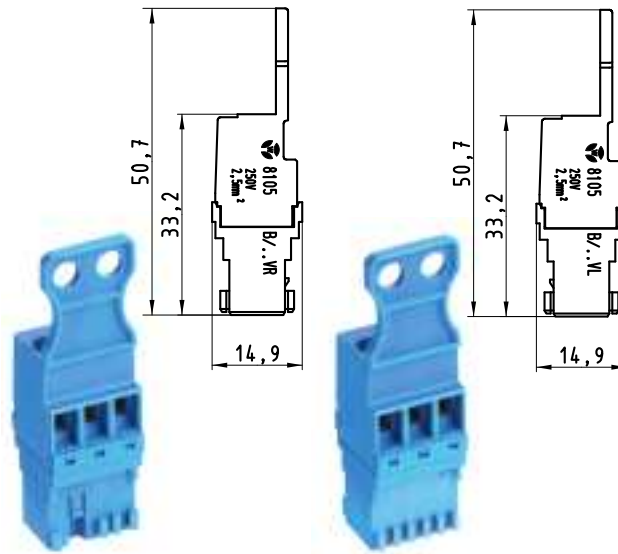
Approvals

	Poles	G (mm)	Coding*)	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack
<b>RAST 5 Connectors with socket contact</b>	2	10	C0	15.000.0253.0	100	15.020.0253.0	100	15.010.0253.0	100
		10	C1	15.001.0253.0	100	15.021.0253.0	100	15.011.0253.0	100
		10	C2	15.002.0253.0	100	15.022.0253.0	100	15.012.0253.0	100
	3	15	C0	15.000.0353.0	100	15.020.0353.0	100	15.010.0353.0	100
		15	C1	15.001.0353.0	100	15.021.0353.0	100	15.011.0353.0	100
		15	C2	15.002.0353.0	100	15.022.0353.0	100	15.012.0353.0	100
	4	20	C0	15.000.0453.0	50	15.020.0453.0	50	15.010.0453.0	50
		20	C1	15.001.0453.0	50	15.021.0453.0	50	15.011.0453.0	50
		20	C2	15.002.0453.0	50	15.022.0453.0	50	15.012.0453.0	50
	5	25	C0	15.000.0553.0	50	15.020.0553.0	50	15.010.0553.0	50
		25	C1	15.001.0553.0	50	15.021.0553.0	50	15.011.0553.0	50
		25	C2	15.002.0553.0	50	15.022.0553.0	50	15.012.0553.0	50
	6	30	C0	15.000.0653.0	50	15.020.0653.0	50	15.010.0653.0	50
		30	C1	15.001.0653.0	50	15.021.0653.0	50	15.011.0653.0	50
		30	C2	15.002.0653.0	50	15.022.0653.0	50	15.012.0653.0	50
	7	35	C0	15.000.0753.0	50	15.020.0753.0	50	15.010.0753.0	50
		35	C1	15.001.0753.0	50	15.021.0753.0	50	15.011.0753.0	50
		35	C2	15.002.0753.0	50	15.022.0753.0	50	15.012.0753.0	50
<b>No flame EN 60335-1 RAST 5 Connectors with socket contact</b>	2	10	C0	15.000.0257.2	100	15.020.0257.2	100	15.010.0257.2	100
		10	C1	15.001.0257.2	100	15.021.0257.2	100	15.011.0257.2	100
		10	C2	15.002.0257.2	100	15.022.0257.2	100	15.012.0257.2	100
	3	15	C0	15.000.0357.2	100	15.020.0357.2	100	15.010.0357.2	100
		15	C1	15.001.0357.2	100	15.021.0357.2	100	15.011.0357.2	100
		15	C2	15.002.0357.2	100	15.022.0357.2	100	15.012.0357.2	100
	4	20	C0	15.000.0457.2	50	15.020.0457.2	50	15.010.0457.2	50
		20	C1	15.001.0457.2	50	15.021.0457.2	50	15.011.0457.2	50
		20	C2	15.002.0457.2	50	15.022.0457.2	50	15.012.0457.2	50
	5	25	C0	15.000.0557.2	50	15.020.0557.2	50	15.010.0557.2	50
		25	C1	15.001.0557.2	50	15.021.0557.2	50	15.011.0557.2	50
		25	C2	15.002.0557.2	50	15.022.0557.2	50	15.012.0557.2	50
	6	30	C0	15.000.0657.2	50	15.020.0657.2	50	15.010.0657.2	50
		30	C1	15.001.0657.2	50	15.021.0657.2	50	15.011.0657.2	50
		30	C2	15.002.0657.2	50	15.022.0657.2	50	15.012.0657.2	50
	7	35	C0	15.000.0757.2	50	15.020.0757.2	50	15.010.0757.2	50
		35	C1	15.001.0757.2	50	15.021.0757.2	50	15.011.0757.2	50
		35	C2	15.002.0757.2	50	15.022.0757.2	50	15.012.0757.2	50



\*) Further coding see page 9

# Connectors with socket contact



**8105 B VRA**  
with extraction aid

**8106 B VLA**  
with extraction aid

Rated cross section  
Rated current, A  
Rated voltage, V  
Approvals

8105 B VRA		8106 B VLA	
UL	CSA	UL	CSA
10 A	10 A	10 A	10 A
300 V	300 V	300 V	300 V
IEC 2,5 mm <sup>2</sup> 		IEC 2,5 mm <sup>2</sup> 	

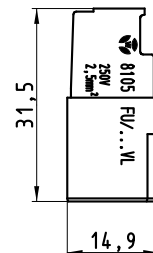
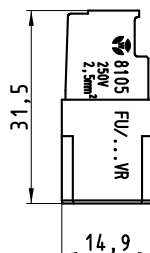
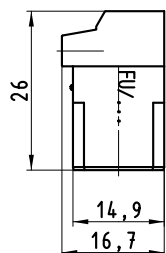
	Poles	G (mm)	Coding*)	Part No.	Std. Pack	Part No.	Std. Pack	
<b>RAST 5</b> Connectors with socket contact	2	10	C0	15.040.0253.0	50	15.030.0253.0	50	
		10	C1	15.041.0253.0	50	15.031.0253.0	50	
		10	C2	15.042.0253.0	50	15.032.0253.0	50	
	3	15	C0	15.040.0353.0	50	15.030.0353.0	50	
		15	C1	15.041.0353.0	50	15.031.0353.0	50	
		15	C2	15.042.0353.0	50	15.032.0353.0	50	
	4	20	C0	15.040.0453.0	50	15.030.0453.0	50	
		20	C1	15.041.0453.0	50	15.031.0453.0	50	
		20	C2	15.042.0453.0	50	15.032.0453.0	50	
	5	25	C0	15.040.0553.0	50	15.030.0553.0	50	
		25	C1	15.041.0553.0	50	15.031.0553.0	50	
		25	C2	15.042.0553.0	50	15.032.0553.0	50	
	6	30	C0	15.040.0653.0	50	15.030.0653.0	50	
		30	C1	15.041.0653.0	50	15.031.0653.0	50	
		30	C2	15.042.0653.0	50	15.032.0653.0	50	
	7	35	C0	15.040.0753.0	50	15.030.0753.0	50	
		35	C1	15.041.0753.0	50	15.031.0753.0	50	
		35	C2	15.042.0753.0	50	15.032.0753.0	50	
	<b>No flame EN 60335-1</b>	<b>Poles</b>	<b>G (mm)</b>	<b>Coding*)</b>	<b>Part No.</b>	<b>Std. Pack</b>	<b>Part No.</b>	<b>Std. Pack</b>
	<b>RAST 5</b> Connectors with socket contact  	2	10	C0	15.040.0257.2	50	15.030.0257.2	50
			10	C1	15.041.0257.2	50	15.031.0257.2	50
10			C2	15.042.0257.2	50	15.032.0257.2	50	
3		15	C0	15.040.0357.2	50	15.030.0357.2	50	
		15	C1	15.041.0357.2	50	15.031.0357.2	50	
		15	C2	15.042.0357.2	50	15.032.0357.2	50	
4		20	C0	15.040.0457.2	50	15.030.0457.2	50	
		20	C1	15.041.0457.2	50	15.031.0457.2	50	
		20	C2	15.042.0457.2	50	15.032.0457.2	50	
5		25	C0	15.040.0557.2	50	15.030.0557.2	50	
		25	C1	15.041.0557.2	50	15.031.0557.2	50	
		25	C2	15.042.0557.2	50	15.032.0557.2	50	
6		30	C0	15.040.0657.2	50	15.030.0657.2	50	
		30	C1	15.041.0657.2	50	15.031.0657.2	50	
		30	C2	15.042.0657.2	50	15.032.0657.2	50	
7		35	C0	15.040.0757.2	50	15.030.0757.2	50	
		35	C1	15.041.0757.2	50	15.031.0757.2	50	
		35	C2	15.042.0757.2	50	15.032.0757.2	50	

\*) Further coding see page 9



## Connector with tab contact

	No-flame material
Sulfur yellow	X
Rapeseed yellow	X
Salmon orange	X
Dusky pink	X
Pastel violet	X
Light blue	shown
Moss green	X
Light green	X
Sliver gray	X
Slate gray	X
Black gray	X
Gray brown	X
Pure white	15.xxx.xxxx.2



### 8105 FU

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	250 V

### 8105 FU VR


UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	250 V

### 8105 FU VL

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	250 V

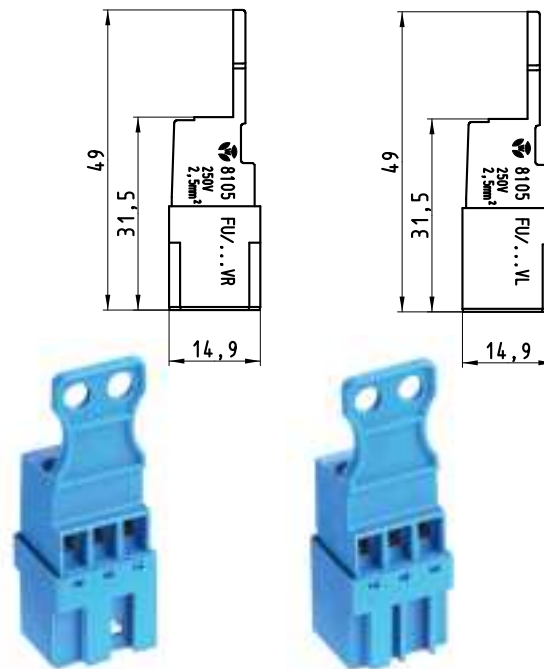
Rated cross section  
Rated current, A  
Rated voltage, V  
Approvals



No flame EN 60335-1	Poles	G (mm)	Coding*)	Part No.	Std. Pack	Part No.	Std. Pack	Part No.	Std. Pack	
<b>RAST 5</b> <b>Connector with tab contact</b> 	2	11,8	C1	<b>Upon request</b>	100	15.421.0257.2	100	15.411.0257.2	100	
		11,8	C5			15.425.0257.2		15.415.0257.2		
		11,8	C8			15.428.0257.2		15.418.0257.2		
		11,8	C9			15.429.0257.2		15.419.0257.2		
		11,8	C10			15.420.1257.2		15.410.1257.2		
		11,8	C11			15.421.1257.2		15.411.1257.2		
		11,8	C12			15.422.1257.2		15.412.1257.2		
		11,8	C13			15.423.1257.2		15.413.1257.2		
		3	16,8			C1		15.421.0357.2		15.411.0357.2
			16,8			C2		15.422.0357.2		15.412.0357.2
			16,8			C3		15.423.0357.2		15.413.0357.2
			16,8			C8		15.428.0357.2		15.418.0357.2
			16,8			C9		15.429.0357.2		15.419.0357.2
	16,8		C10		15.420.1357.2	15.410.1357.2				
	16,8		C11		15.421.1357.2	15.411.1357.2				
	16,8		C12		15.422.1357.2	15.412.1357.2				
	16,8		C13		15.423.1357.2	15.413.1357.2				
	16,8		C14		15.424.1357.2	15.414.1357.2				
	16,8		C15		15.425.1357.2	15.415.1357.2				
	4		21,8		C1	15.421.0457.2	15.411.0457.2			
			21,8		C7	15.427.0457.2	15.417.0457.2			
			21,8		C8	15.428.0457.2	15.418.0457.2			
			21,8		C9	15.429.0457.2	15.419.0457.2			
		21,8	C10		15.420.1457.2	15.410.1457.2				
		21,8	C11		15.421.1457.2	15.411.1457.2				
		21,8	C12		15.422.1457.2	15.412.1457.2				
		21,8	C13		15.423.1457.2	15.413.1457.2				
		5	26,8		C3	15.423.0557.2	15.413.0557.2			
			6		31,8	C3	15.423.0657.2	15.413.0657.2		
					36,8	C5	15.425.0757.2	15.415.0757.2		

\*) Further coding see page 9

# Connector with tab contact



**8105 FU VRA**  
with extraction aid

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	250 V

**8105 FU VLA**  
with extraction aid

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	250 V

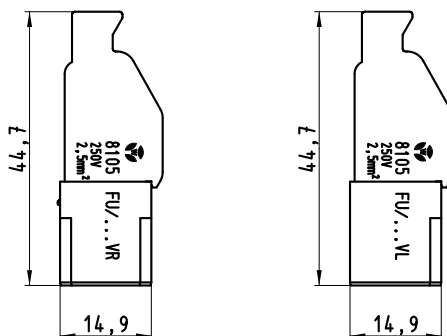
Rated cross section  
Rated current, A  
Rated voltage, V  
Approvals

No flame EN 60335-1	Poles	G (mm)	Coding*)	Part No.	Std. Pack	Part No.	Std. Pack
<b>RAST 5</b> <b>Connector with tab contact</b> 	2	11,8	C1	15.441.0257.2	50	15.431.0257.2	50
		11,8	C5	15.445.0257.2	50	15.435.0257.2	50
		11,8	C8	15.448.0257.2	50	15.438.0257.2	50
		11,8	C9	15.449.0257.2	50	15.439.0257.2	50
		11,8	C10	15.440.1257.2	50	15.430.1257.2	50
		11,8	C11	15.441.1257.2	50	15.431.1257.2	50
		11,8	C12	15.442.1257.2	50	15.432.1257.2	50
		11,8	C13	15.443.1257.2	50	15.433.1257.2	50
	3	16,8	C1	15.441.0357.2	50	15.431.0357.2	50
		16,8	C2	15.442.0357.2	50	15.432.0357.2	50
		16,8	C3	15.443.0357.2	50	15.433.0357.2	50
		16,8	C8	15.448.0357.2	50	15.438.0357.2	50
		16,8	C9	15.449.0357.2	50	15.439.0357.2	50
		16,8	C10	15.440.1357.2	50	15.430.1357.2	50
		16,8	C11	15.441.1357.2	50	15.431.1357.2	50
		16,8	C12	15.442.1357.2	50	15.432.1357.2	50
		16,8	C13	15.443.1357.2	50	15.433.1357.2	50
		16,8	C14	15.444.1357.2	50	15.434.1357.2	50
	16,8	C15	15.445.1357.2	50	15.435.1357.2	50	
	4	21,8	C1	15.441.0457.2	50	15.431.0457.2	50
		21,8	C7	15.447.0457.2	50	15.437.0457.2	50
		21,8	C8	15.448.0457.2	50	15.438.0457.2	50
		21,8	C9	15.449.0457.2	50	15.439.0457.2	50
		21,8	C10	15.440.1457.2	50	15.430.1457.2	50
		21,8	C11	15.441.1457.2	50	15.431.1457.2	50
		21,8	C12	15.442.1457.2	50	15.432.1457.2	50
	21,8	C13	15.443.1457.2	50	15.433.1457.2	50	
	5	26,8	C3	15.443.0557.2	50	15.433.0557.2	50
6	31,8	C3	15.443.0657.2	50	15.433.0657.2	50	
7	36,8	C5	15.445.0757.2	50	15.435.0757.2	50	

\*) Further coding see page 9

## Connector with tab contact and dual connection

	No-flame material
Sulfur yellow	X
Rapeseed yellow	X
Salmon orange	X
Dusky pink	X
Pastel violet	X
Light blue	shown
Moss green	X
Light green	X
Sliver gray	X
Slate gray	X
Black gray	X
Gray brown	X
Pure white	15.xxx.xxx.2




### 8105 FUE VR

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	10 A

### 8105 FUE VL

UL	CSA	IEC
10 A	10 A	2,5 mm <sup>2</sup>
300 V	300 V	10 A

Rated cross section  
Rated current, A  
Rated voltage, V  
Approvals

No flame EN 60335-1	Poles	G (mm)	Coding*)	Part No.	Std. Pack	Part No.	Std. Pack	
<b>RAST 5</b> <b>Connector with tab</b> <b>contact and dual</b> <b>connection</b> 	2	11,8	C1	15.521.0257.1	100	15.511.0257.1	100	
		11,8	C5	15.525.0257.1	100	15.515.0257.1	100	
		11,8	C8	15.528.0257.1	100	15.518.0257.1	100	
		11,8	C9	15.529.0257.1	100	15.519.0257.1	100	
		11,8	C10	15.520.1257.1	100	15.510.1257.1	100	
		11,8	C11	15.521.1257.1	100	15.511.1257.1	100	
		11,8	C12	15.522.1257.1	100	15.512.1257.1	100	
		11,8	C13	15.523.1257.1	100	15.513.1257.1	100	
		3	16,8	C1	15.521.0357.1	100	15.511.0357.1	100
			16,8	C2	15.522.0357.1	100	15.512.0357.1	100
			16,8	C3	15.523.0357.1	100	15.513.0357.1	100
			16,8	C8	15.528.0357.1	100	15.518.0357.1	100
			16,8	C9	15.529.0357.1	100	15.519.0357.1	100
	16,8		C10	15.520.1357.1	100	15.510.1357.1	100	
	16,8		C11	15.521.1357.1	100	15.511.1357.1	100	
	16,8		C12	15.522.1357.1	100	15.512.1357.1	100	
	16,8		C13	15.523.1357.1	100	15.513.1357.1	100	
	16,8		C14	15.524.1357.1	100	15.514.1357.1	100	
	16,8		C15	15.525.1357.1	100	15.515.1357.1	100	
	4	21,8	C1	15.521.0457.1	50	15.511.0457.1	50	
		21,8	C7	15.527.0457.1	50	15.517.0457.1	50	
		21,8	C8	15.528.0457.1	50	15.518.0457.1	50	
		21,8	C9	15.529.0457.1	50	15.519.0457.1	50	
		21,8	C10	15.520.1457.1	50	15.510.1457.1	50	
21,8		C11	15.521.1457.1	50	15.511.1457.1	50		
21,8		C12	15.522.1457.1	50	15.512.1457.1	50		
21,8		C13	15.523.1457.1	50	15.513.1457.1	50		
5	26,8	C3	15.523.0557.1	50	15.513.0557.1	50		

\*) Further coding see page 9



## General technical data

Pollution degree / Overvoltage category		
3/cat III	250 V/ 4 kV	
2/cat II	400 V/ 4 kV	
1/cat I	1000 V/ 4 kV	
Wire range	mm <sup>2</sup>	AWG
solid	0.20-4.0	26-12
fine stranded	0.14-2.5	26-12
Wire strip length	7.0 mm	
Screw	Steel	M3



The **RAST 5** system from Wieland Electric is distinguished on the one hand by the large number of physical coding possibilities via latches, and on the other hand, the color coding makes it easier for electricians to quickly find the correct connection position. The latches therefore provide additional mechanical protection against mismatching.

A total of 13 different colors offer a large number of combination possibilities. In the case of the **RAST 5** pin connectors (see page 8), the color coding is ensured by labels that correspond to EN 60335-1.

## Color table

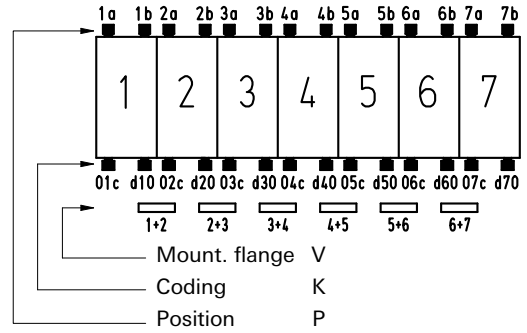
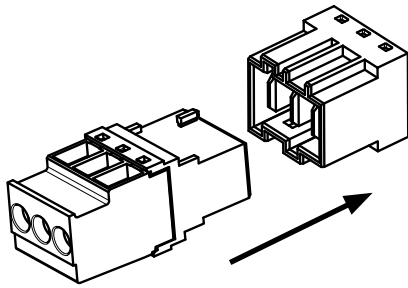
### No flame EN 60335-1



Colour	RAL	Designation	Color code
	1016	Sulfur yellow	15.xxx.xxxx.8
	1021	Rapeseed yellow	upon request
	2012	Salmon orange	15.xxx.xxxx.9
	3014	Dusky pink	15.xxx.xxxx.5
	4009	Pastel violet	15.xxx.xxxx.0
	5012	Light blue	15.xxx.xxxx.6
	6005	Moss green	upon request
	6027	Light green	15.xxx.xxxx.7
	7001	Sliver gray	upon request
	7015	Slate gray	15.xxx.xxxx.3
	7021	Black gray	15.xxx.xxxx.1
	8019	Gray brown	upon request
	9010	Pure white	15.xxx.xxxx.2

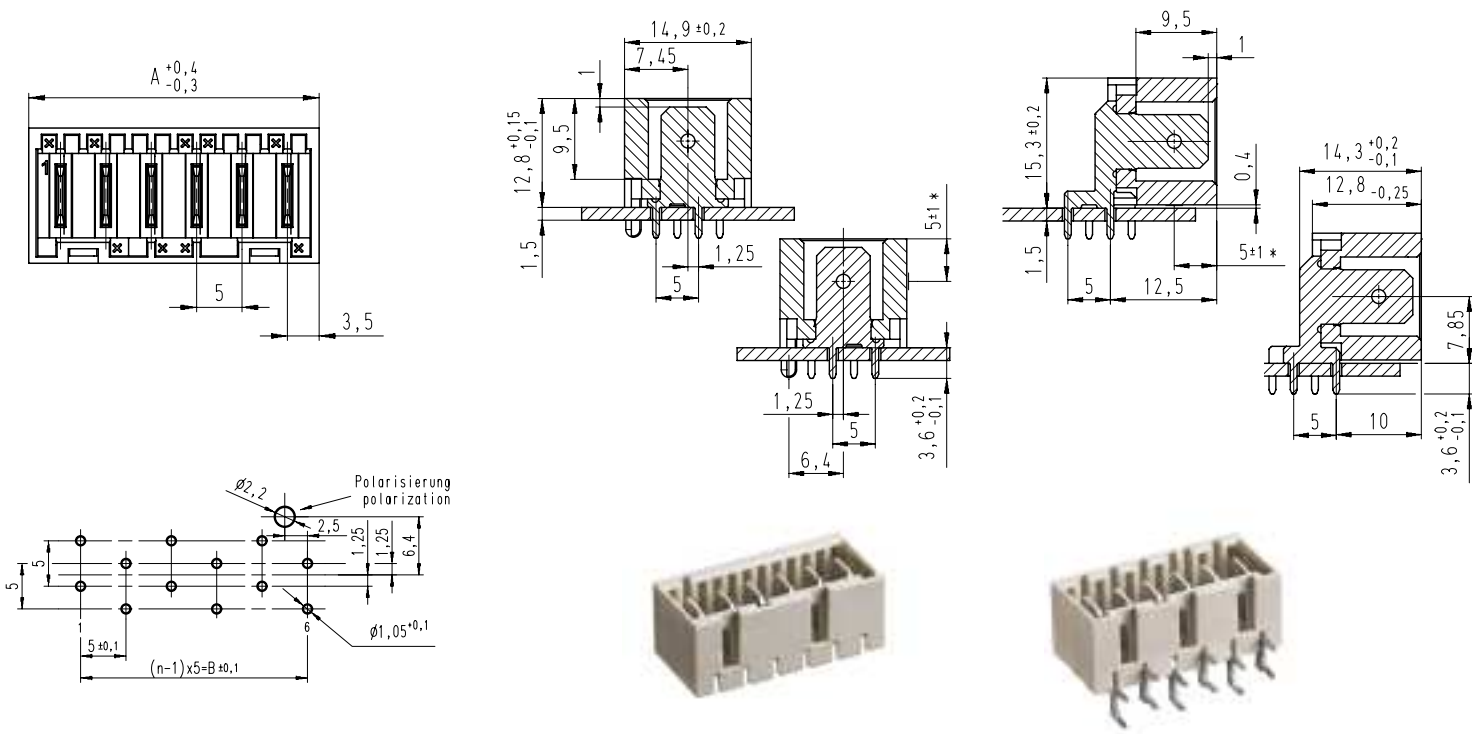


**Matrix: Codings**



Number of poles		2		3		4		5		6		7	
Coding													
C1	Position		1b,2a		1b		1b						
	Coding		01c,d20		01c,d20		03c,d40						
	Mount. flange		1+2		1+2		1+2,3+4						
C2	Position		1a,2b		1b,3a		1a,4b						
	Coding		01c		01c		01c						
	Mount. flange		1+2		1+2		1+2,3+4						
C3	Position		2a		1a		1a,4b		5b		1a		
	Coding		01c,d20		03c		d40		d30		d30,d60		
	Mount. flange		1+2		1+2		1+2,3+4		1+2		1+2,5+6		
C4	Position		1a,1b		1a,1b		1a,3a						
	Coding		01c		d30		d23c						
	Mount. flange		1+2		1+2		1+2,3+4						
C5	Position		1a,2b		1a,3b		1a,3a						3a,5a
	Coding		d20		01c		d40						d10,d40,d50
	Mount. flange		1+2		1+2		1+2,3+4						2+3,6+7
C6	Position		1a,2b		1a,3a		2a,4b						
	Coding		-		01c		d20						
	Mount. flange		1+2		1+2		1+2,3+4						
C7	Position		1a,2a,2b		2b		1b,4b						
	Coding		d20		d20		01c						
	Mount. flange		1+2		1+2		1+2,3+4						
C8	Position		2a,2b		2b,3b		1b,4b						
	Coding		d20		d12c		d40						
	Mount. flange		1+2		2+3		1+2,3+4						
C9	Position		1b,2b		1a,1b		1b,3b						
	Coding		d20		-		02c,d40						
	Mount. flange		1+2		1+2		3+4						
C10	Position		1b,2a		3a		2a,4a						
	Coding		d20		02c,d30		01c,d40						
	Mount. flange		1+2		2+3		3+4						
C11	Position		1a,2a		1a,3b		2a,4a						
	Coding		d20		01c,d10,d30		01c,d30						
	Mount. flange		1+2		2+3		2+3						
C12	Position		1a,1b		2a,3b		4a						
	Coding		d20		d12c		02c						
	Mount. flange		1+2		2+3		3+4						
C13	Position		1a		1b,3b		1b,3b						
	Coding		-		d12c		02c,d40						
	Mount. flange		1+2		2+3		2+3						
C14	Position				1a,3b								
	Coding				d12c								
	Mount. flange				2+3								
C15	Position				2a,3b								
	Coding				d10								
	Mount. flange				2+3								

# Tab Contacts



Pitch, mm  
 Rated current, A  
 Rated voltage, V  
 Approvals

### MS 9401

UL	CSA	IEC
16 A	10 A	5,00
400 V	400 V	16 A
		250 V

### MS 9402

UL	CSA	IEC
16 A	10 A	5,00
400 V	400 V	16 A
		250 V

No flame EN 60335-1	Pole*)	A (mm)	Coding*)		Part No.	Std. Pack	Part No.	Std. Pack
	2	12	C1	0A	MSLO 9401-02-00A-960-000-00	500	MSLO 9402-02-00A-960-000-00	500
		12	C2	0B	MSLO 9401-02-00B-960-000-00	500	MSLO 9402-02-00B-960-000-00	500
		12	C3	0C	MSLO 9401-02-00C-960-000-00	500	MSLO 9402-02-00C-960-000-00	500
		12	C4	0D	MSLO 9401-02-00D-960-000-00	500	MSLO 9402-02-00D-960-000-00	500
		12	C5	0E	MSLO 9401-02-00E-960-000-00	500	MSLO 9402-02-00E-960-000-00	500
		12	C6	0F	MSLO 9401-02-00F-960-000-00	500	MSLO 9402-02-00F-960-000-00	500
		12	C7	0G	MSLO 9401-02-00G-960-000-00	500	MSLO 9402-02-00G-960-000-00	500
		12	C12	0N	MSLO 9401-02-00N-960-000-00	500	MSLO 9402-02-00N-960-000-00	500
	3	17	C1	0A	MSLO 9401-03-00A-960-000-00	350	MSLO 9402-03-00A-960-000-00	350
		17	C2	0C	MSLO 9401-03-00C-960-000-00	350	MSLO 9402-03-00C-960-000-00	350
		17	C3	0D	MSLO 9401-03-00D-960-000-00	350	MSLO 9402-03-00D-960-000-00	350
		17	C4	0E	MSLO 9401-03-00E-960-000-00	350	MSLO 9402-03-00E-960-000-00	350
		17	C5	0F	MSLO 9401-03-00F-960-000-00	350	MSLO 9402-03-00F-960-000-00	350
		17	C6	0G	MSLO 9401-03-00G-960-000-00	350	MSLO 9402-03-00G-960-000-00	350
		17	C7	0H	MSLO 9401-03-00H-960-000-00	350	MSLO 9402-03-00H-960-000-00	350
	4	22	C1	0A	MSLO 9401-04-00A-960-000-00	250	MSLO 9402-04-00A-960-000-00	200
		22	C2	0B	MSLO 9401-04-00B-960-000-00	250	MSLO 9402-04-00B-960-000-00	200
		22	C3	0C	MSLO 9401-04-00C-960-000-00	250	MSLO 9402-04-00C-960-000-00	200
		22	C4	0E	MSLO 9401-04-00E-960-000-00	250	MSLO 9402-04-00E-960-000-00	200
		22	C5	0F	MSLO 9401-04-00F-960-000-00	250	MSLO 9402-04-00F-960-000-00	200
		22	C6	0G	MSLO 9401-04-00G-960-000-00	250	MSLO 9402-04-00G-960-000-00	200
	5	27	C1	0B	MSLO 9401-05-00B-960-000-00	200	MSLO 9402-05-00B-960-000-00	200
		27	C2	0D	MSLO 9401-05-00D-960-000-00	200	MSLO 9402-05-00D-960-000-00	200
	6	32	C1	0A	MSLO 9401-06-00A-960-000-00	150	MSLO 9402-06-00A-960-000-00	150
		32	C2	0B	MSLO 9401-06-00B-960-000-00	150	MSLO 9402-06-00B-960-000-00	150
	7	37	C1	0A	MSLO 9401-07-00A-960-000-00	150	MSLO 9402-07-00A-960-000-00	125
		37	C2	0B	MSLO 9401-07-00B-960-000-00	150	MSLO 9402-07-00B-960-000-00	125

\*) Further coding and numbers of poles upon request



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## Industrial technology

### Solutions for the control cabinet

- DIN rail terminal blocks
  - Screw, tension spring or push-in connection technology
  - Wire cross sections up to 240 mm<sup>2</sup>
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safe signal acquisition
  - Safety switching devices
  - Modular safety modules
  - Compact safety controllers
  - Applicative consultancy and training
- Network engineering and fieldbus systems
  - Remote maintenance via VPN industrial router and VPN service portal
  - Industrial Ethernet switches
  - PLC and I/O systems, standard and increased environmental conditions
- Interface
  - Power supply units
  - Overvoltage protection
  - Coupling relays, semiconductor switches
  - Timer relays, measuring and monitoring relays
  - Analog coupling and converter modules
  - Passive interfaces

### Solutions for field applications

- Decentralized installation and automation technology
  - Electrical installation for wind tower
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Rectangular and round connectors
  - Aluminum or plastic housings
  - Degree of protection up to IP68
  - Current-carrying capacity up to 100 A
  - Connectors for hazardous areas
  - Modular, application-specific technology

### PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

### Building and installation technology

- Building installation systems
  - Main power supply connectors IP20/IP65...IP68
  - Bus connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Bus systems in KNX, LON and radio technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

**contacts  
are  
green.**