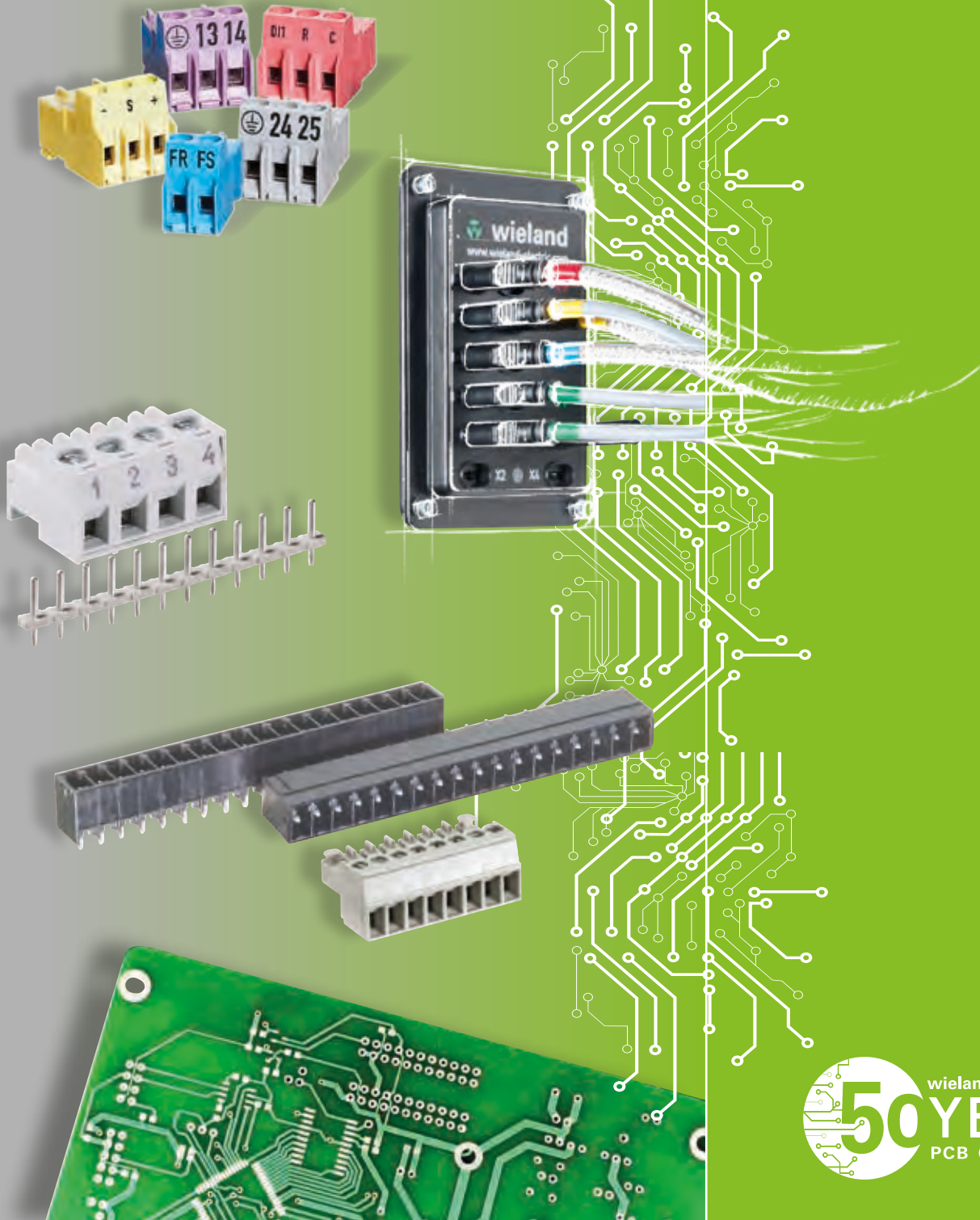


wiecon



wieland

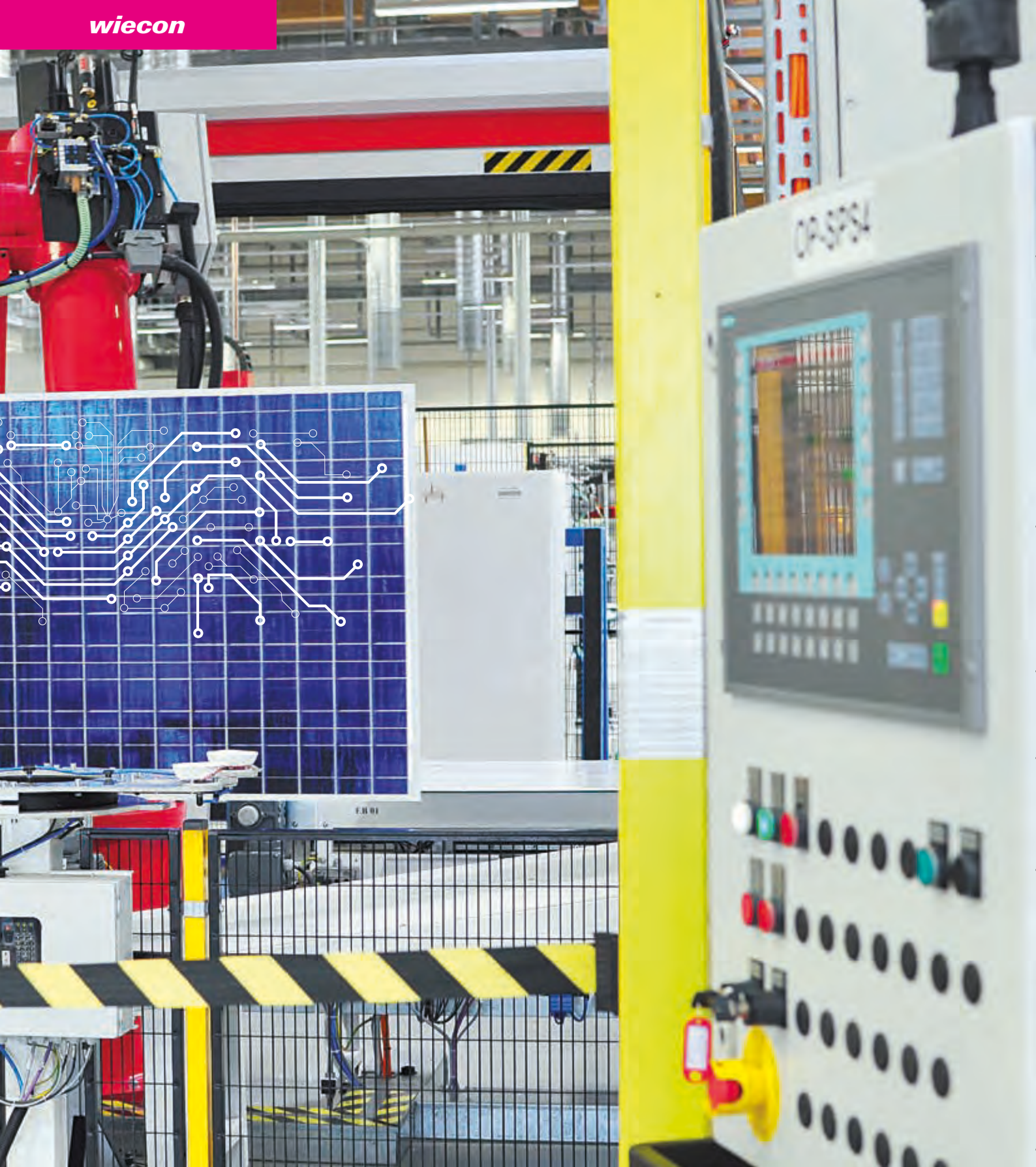


wieland
50 YEARS
PCB CONNECTORS

wiecon

Printed Circuit Board terminals
and connectors
Overview





Service.

You can receive the item numbers listed in the brochure as samples within 48 hours.

In case of questions, contact us via **telephone.: +49 951 9324-991**
or **at.ts@wieland-electric.com**

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wiecon Printed circuit board connector

- Overview of printed circuit board connectors
- Overview of pluggable terminals and direct-plug technology

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wiecon RAST 5 Printed circuit board connectors

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wiecon Printed circuit board terminals

- Overview of printed circuit board terminals

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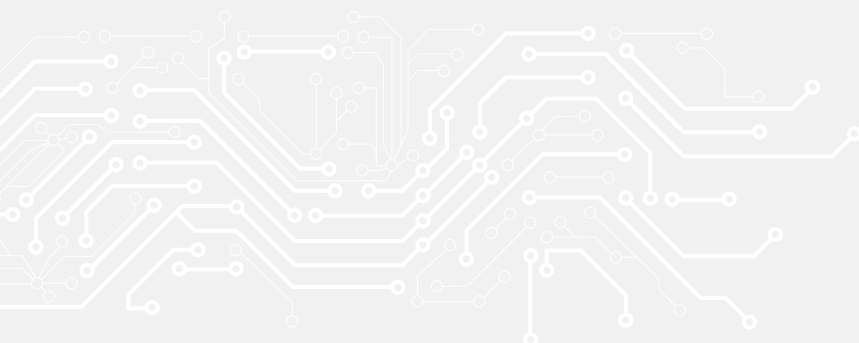
FSC The pluggable signal cabling

36

Information about **No Flame**

- Affected products of the household appliance standard
- **No Flame** at Wieland

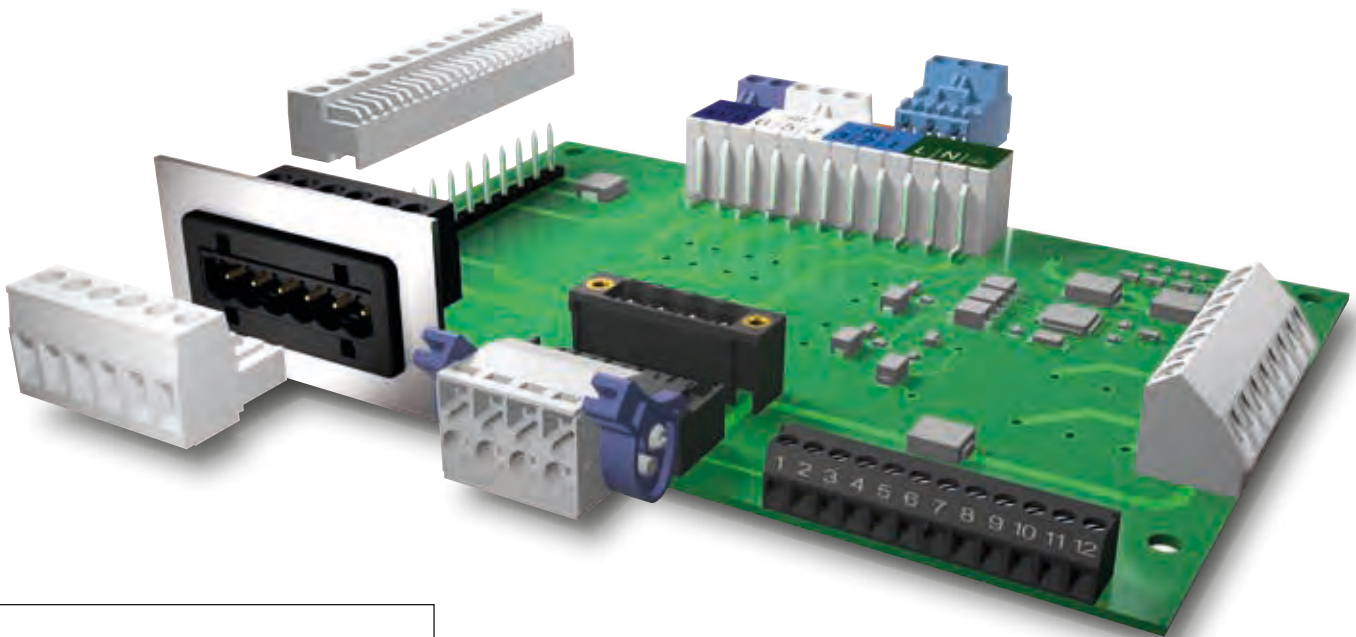
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RAST 5 Coding matrix and combination possibilities

wiecon Portfolio.

Printed circuit board terminals, connectors and the innovative "FSC" signal transfer system.

Are you looking for the right contacting for circuit boards or in the control cabinet? We have the best solution for you. The "**wiecon**" portfolio offers you numerous products with a wide variety of connection technologies. Whether service-friendly connectors or proven circuit board terminals, at Wieland you will find the right products for power, data and signal transfer.



No Flame according to glowing wire test, according to household appliance standard DIN EN/IEC 60335-1. The housing material used was tested by the VDE and has passed the required glowing wire tests. It therefore fulfills the requirements of the stricter household appliance standard.

RoHS
conform ✓

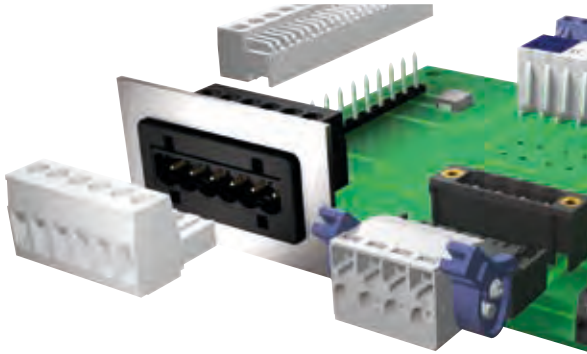
RoHS-compliant

These items correspond to the specifications of the RoHS guideline.

**TAPE
ON
REEL** | 

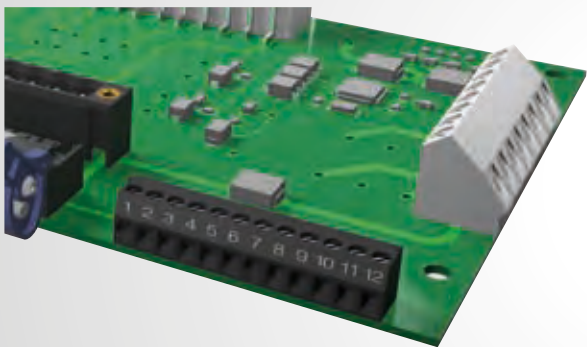
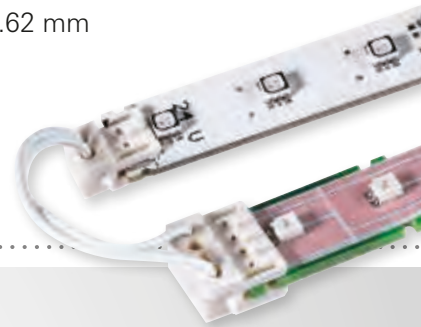
Tape-on-reel product

This product is available as tape-on-reel. For information about the number of poles, item numbers, reel widths, belt heights and packaging units, please see the data sheet in our eShop.



PCB connectors:

- Wire cross-sections from 0.14 mm² to 4 mm²
- For currents up to 12A and voltages up to 1000V
- With screw, tension spring or push-in connection
- Various connection directions and configurations
- Modular spacing 3.5 mm to 7.62 mm



PCB terminals:

- Wire cross-sections from 0.14 mm² to 16 mm²
- For currents up to 76A and voltages up to 1000V
- With screw, tension spring or push-in connection
- Various connection directions and configurations
- Modular spacing 3.5 mm to 10.16 mm or 20.32 mm



FSC: the pluggable signal cabling:

- "Fast signal connection" a **complete system**, compact and **tailored to your needs**
- Transfer data easily, quickly and securely and install in space-saving fashion
- For currents up to 3A and voltages up to 24V
- Up to 32 coding options
- IP 54

wiecon Areas of application.

We offer the right solution for your application.

Whether the latest heating systems, state-of-the-art compressors or safety technology in mechanical engineering, with our **wiecon** printed circuit board terminal program we offer you varied, reliable and service-friendly solutions.

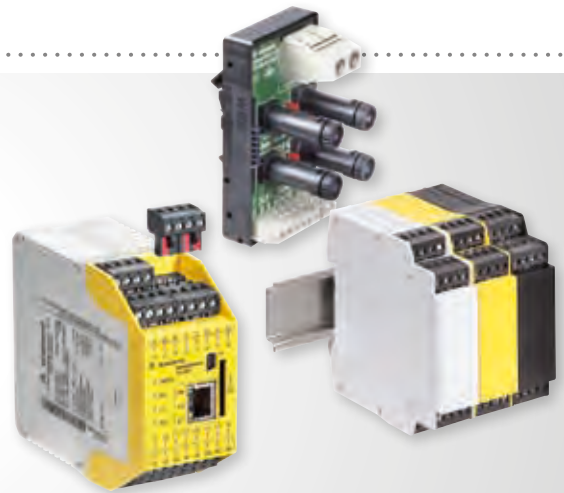




Safety and security

Examples of frequently-used products:

- FSC system
- Housing systems **type WEB1001/1002** and **wiebox**
- Printed circuit board connectors **type 8113, 8213, 8513**
- Pluggable printed circuit board terminals **type 8142**



Heating, ventilation and air conditioning systems

Examples of frequently-used products:

- RAST 5 system **type 8105**
- Printed circuit board connectors **type 8113, 8213, 8513** and **8813**
- Printed circuit board terminals **type 8191 R**
- Pluggable printed circuit board terminals **type 8142 Z**
- Direct connectors **type DST 85**



For the wind power sector

Examples of frequently-used products:

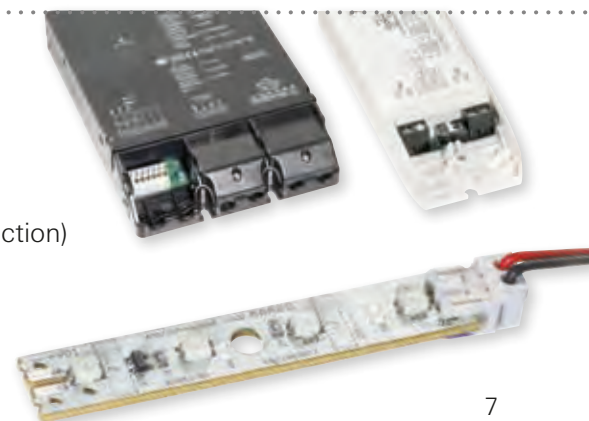
- Printed circuit board connectors **type 8113, 8213, 8513**
- Printed circuit board terminals **type 8191, 8291**



In the lighting sector

Examples of frequently-used products:

- Printed circuit board direct connectors **type LST**
- Printed circuit board connectors **type 8513** (also as flying connection)
- Printed circuit board terminals **type 8593, 8562N**

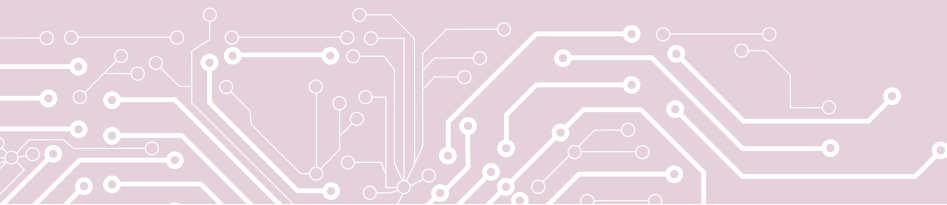




Connect safely and comfortably.

Always the right connection technology.

Regardless of which connection technology you prefer or require, the Wieland product portfolio always offers you just the right high-quality connection components in the right model.



Crimp connection



Screw connection with rising cage clamp system



Screw connection with wire protection



Front screw connection



Push-in spring terminal with push-button



Tension spring connection



Insulation displacement connection (IDC)

Service.

Professional
and fast.

Wieland is always service-oriented. Assembly of connection lines and individual printing are among our core competencies. We will be happy to assist you in customizing your project – just ask us.

Great flexibility that does not set any limits for you

On request, we will provide products for **special requirements**, e.g. requested colors, with special printing, with special contact fittings or completely assembled cables.

- Numerous color variants
- Special printing
- Customer-specific assembled cables
- Special markings, codings and pin lengths
- Fitted circuit boards

Expertise you can rely on

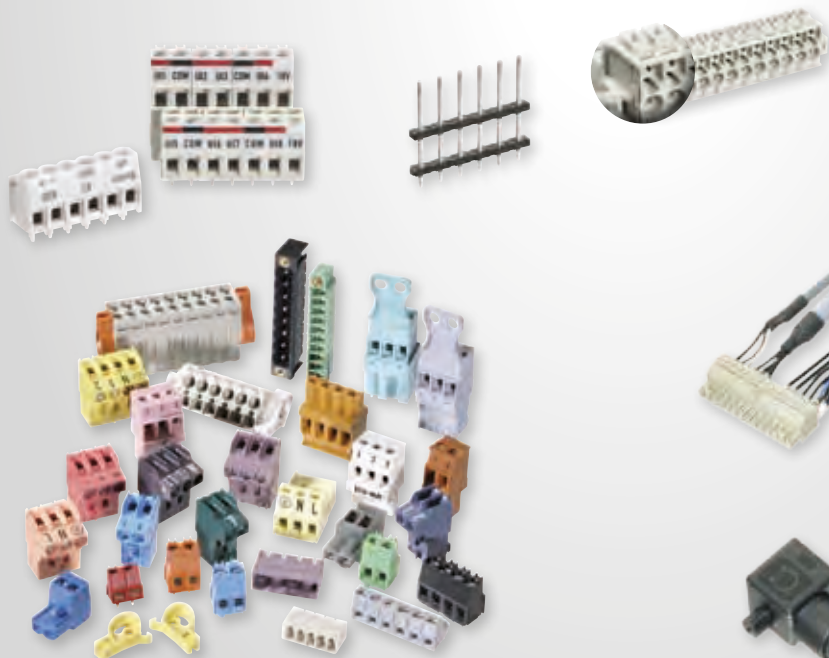
We offer you comprehensive **development and production expertise for individual solutions** – from the initial idea to series production.

- 3D print patterns
- FEM calculations
- Modified fastening types
- Additional activation possibilities

Best service & support saves you time

Our motto is **customer satisfaction**, therefore, we always strive to make all information and products available to you as **easily** as possible. And naturally we will be delighted to advise you.

- Easy download of 3D data from the eShop
- Quick item selection with the **criteria selector** in the **eShop**
- You will find printed product overviews, for a quick overview even without Internet access, starting on p. 17 and page 27 of this brochure



We offer you customized cable assemblies/cable sets with a wide variety of components, which we combine at your request.



THR Technology.

The efficient process for printed circuit board fitting.

With "Through Hole-Reflow Soldering," **wired components of high-temperature-resistant material** such as printed circuit board terminals, capacitors and resistances **are soldered to the circuit board**. In contrast to **SMDs (Surface Mounted Devices)**, the THR components are placed with through-hole contacts in prepared holes, which are filled with soldering paste, and they then run through the **reflow soldering process**. Here, the printed circuit board fitted with SMDs or THR components are moved at constant speed through different temperature zones: Pre-heating, reflow, cooling off in the soldering furnace. The heating of the components, the printed circuit board and the soldering point are done primarily through convection or in the vapor phase process.

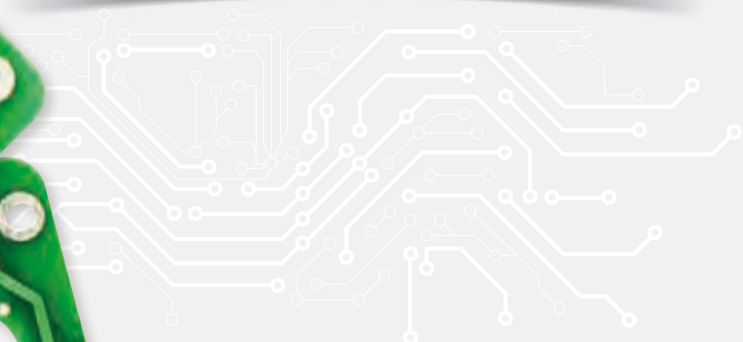
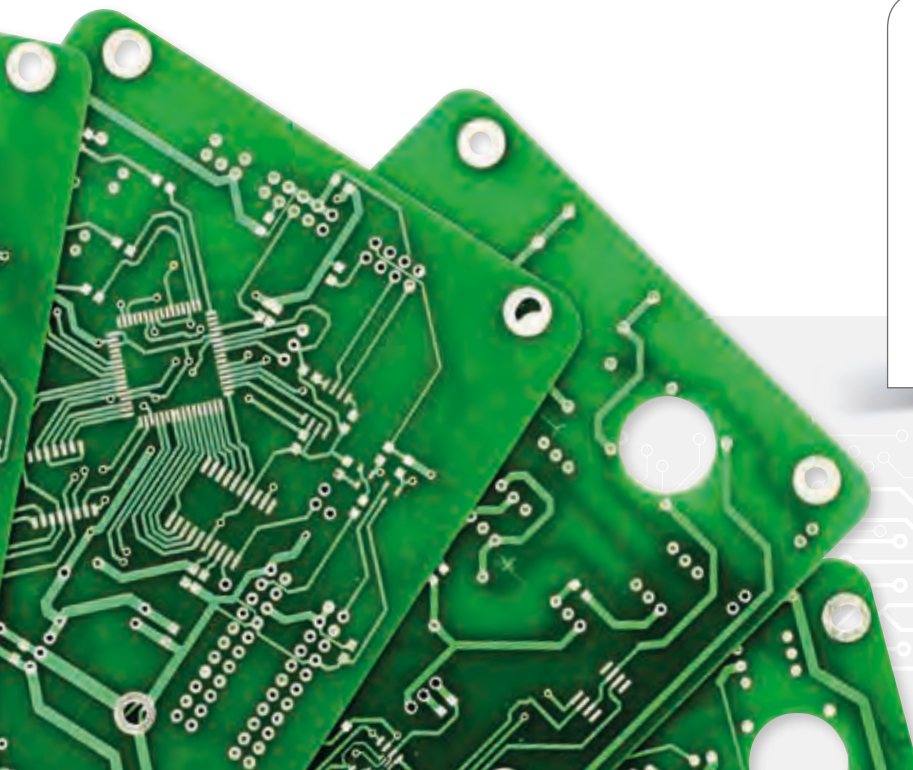
Arguments in favor of THR:

With THR, wired components and SMT components can be processed

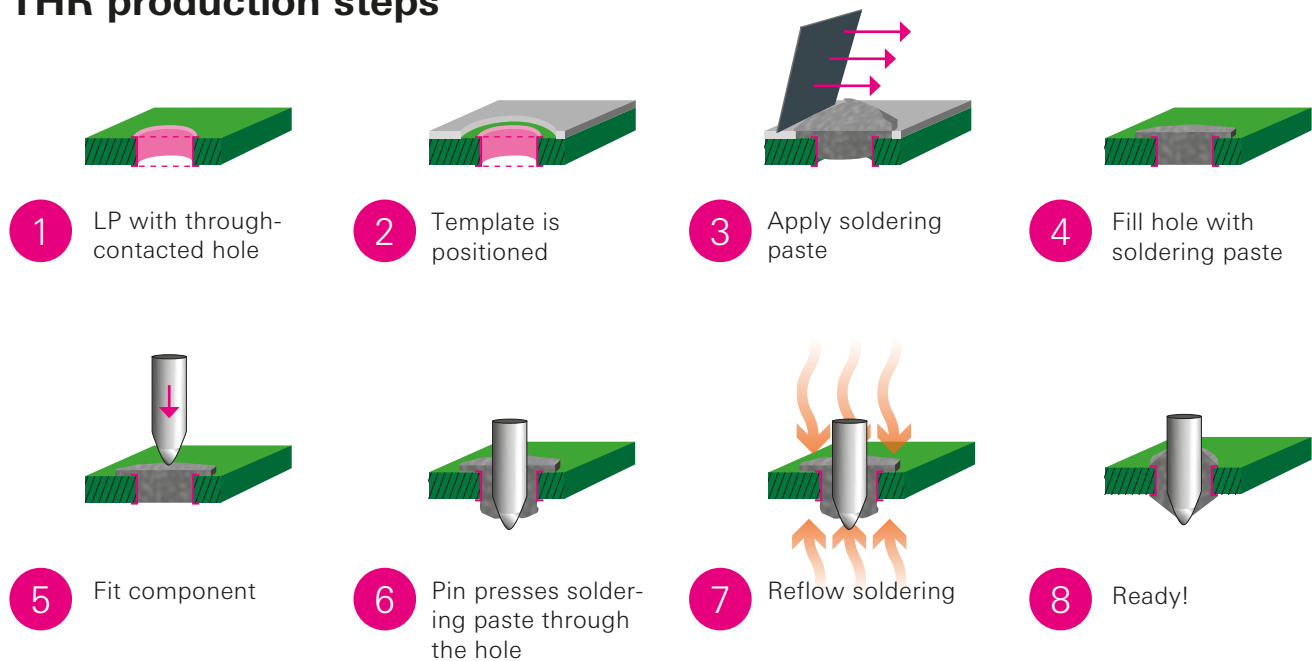
- In one step
- In the same process
- With the same equipment
- Under the same conditions

Automation benefits:

- Reduction of production costs
- Reduction of variants since **THR** parts are also suited for wave soldering
- Sparing of process steps
- ➔ **More time for your core business!**



THR production steps



Requirements of THR components:

The most important requirements of THR components arise from the **automatic fitting capability**, the **optimal heat distribution** on the pin and the **THR temperature profile**.

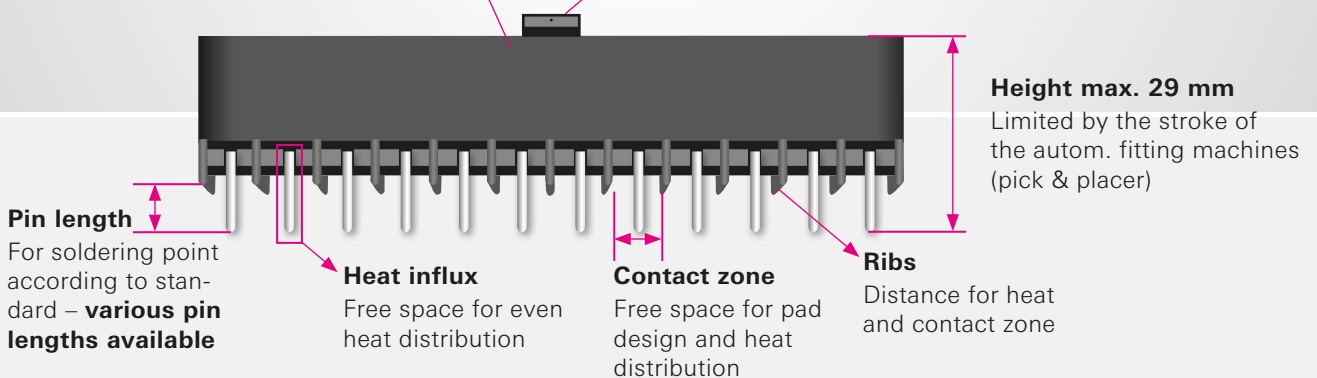
Wieland THR components offer this:

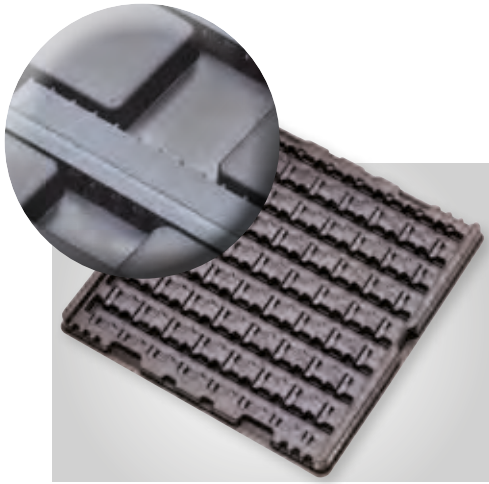
High-temperature-resistant material

Compliance with THR requirements

Smooth surface or absorbent pad

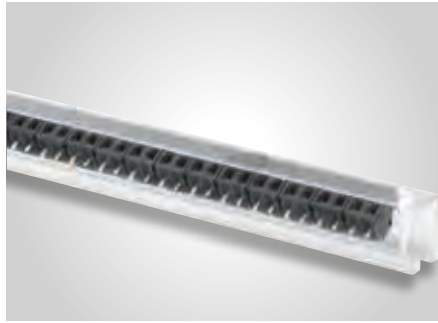
for automatic fitting
(dark due to visual contrast)





Tray

Use in series production for 12- and multi-pole parts



Magazine

Series production especially for unshaped products (e.g. with jumper)



Box

Samples, zero series at the customer



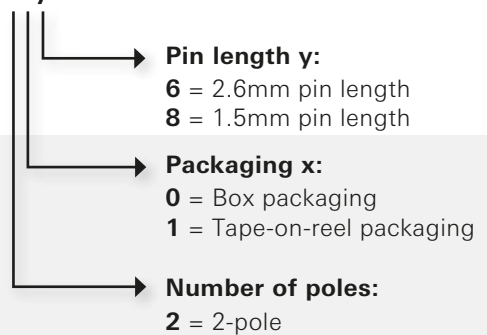
Tape on reel

Series production of 2- to 12-pole parts

Important for your order:

The Wieland numbering system: **THR part numbers can be distinguished using the second and third place of the part number**

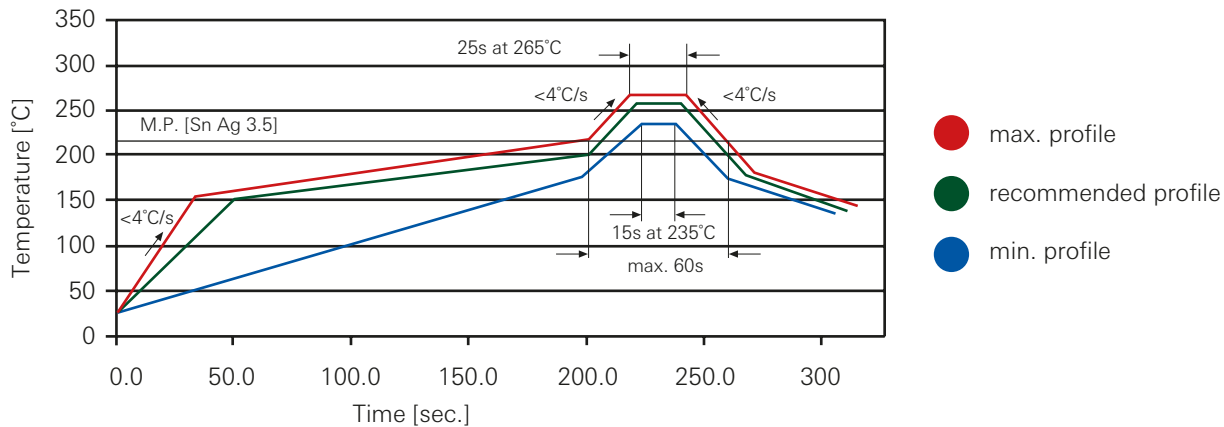
25.195.02xy.0
e.g.:



e.g.: 25.195.0216.0
= plug connector with pin length 2.6 mm in tape-on-reel packaging, 2-pole

Temperature recommendations

(borrowing from DIN EN 61760-1)



For all other cases.

Additional processes for contacting the printed circuit board.

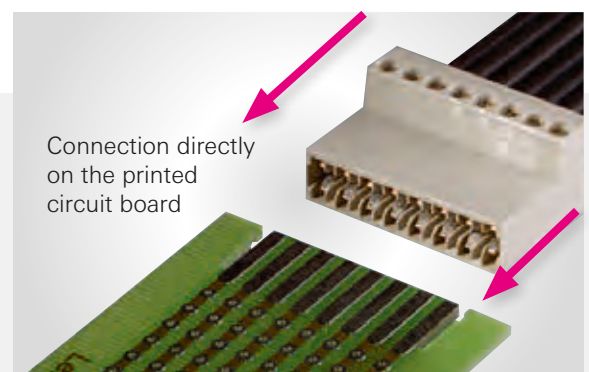
Wave Soldering

The classic soldering process for manufacturing electronic assemblies that are fitted mainly with wired assemblies. Characteristic of this process is that the soldered contact protrudes at least 1 mm from the underside of the printed circuit board.



Direct plugging technology

Direct plugging technology is a solder-free assembly technology that requires **no header**. The connector contacts directly on the defined contact pads at the edge of the printed circuit board, which are provided on the circuit board's layout.



Printed circuit board connectors.

Safe, compact and yet highly-functional.

With PCB connectors, the device becomes more service-friendly for conductor and device replacement. The free selection of the connection technology allows solutions for a wide variety of applications. It is precisely in **building and HVAC technology** that the pluggable PCB terminals are used. Their compact design also offers you the benefit of pluggability.

Features:

- Cross-sections from **0.14 mm²** to **4 mm²**
- For currents up to **12A** and voltages up to **1000V**
- With screw, tension spring or push-in connection
- Pitches 3.5 mm to 7.62 mm
- Compact and pluggable
- Codeable
- Plug connectors in THR material in various packaging types such as tape-on-reel, tray
- Customized printing
- Snap-in variants
- **No Flame** variants available
- Female connectors **can be arranged in a pitch**

Benefits of the pluggability:

- Decentralized creation of assemblies
- Prevention of cabling mistakes
- Easy disassembly for service purposes
- Simplification of the conductor connection for tight spaces





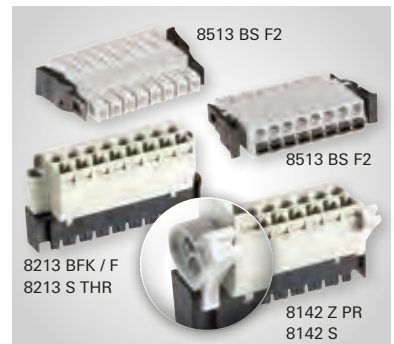
Space-saving

Optimized for the largest cross-sections with the smallest space requirements



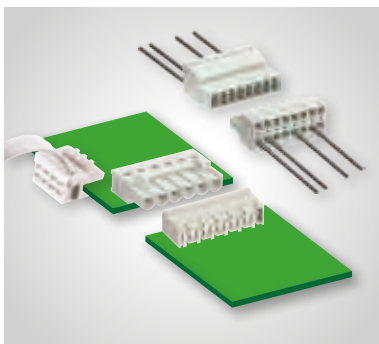
Multi-level plug connectors

Increasing of the number of clamp positions thanks to several levels



Innovative interlocking

Lock and release interlocking, screw flange and locking flange



Combination possibilities

Wire to board, wire to wire and board to board connections



Plug connectors without housing

for wave and reflow soldering process with tin or silver surface



Clear assignment

Color distinction with customer-specific printing



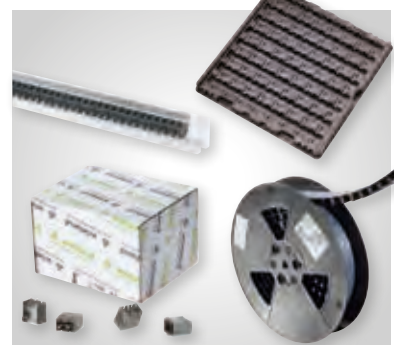
Mechanical coding, plug-gable or molded coded.

Special coding tab and profiles prevent plugging mistakes



Specially fitted

E.g. with internal jumpering, jumpers, empty poles, extraction aid



Well-packaged

Always kept safely with tape-on-reel, magazine, tray or in box packaging

Search.

Get to the product faster.

Search at Wieland and find what you're looking for easily online! Use our sophisticated **product selector** to access **3D data, drawings and technical data sheets** faster. As a registered user, you can also go to our **eShop** to call up prices and availabilities directly.

Our Wieland eShop: Use our clear product selector in the **eShop** and get to the right product in two steps.

As a registered user, you can order directly and display prices and availabilities.



ONLY ONE TIP AWAY

Printed circuit board connectors

3.5 mm pitch		THT headers		
		8513 S/...G	8513 S/...W	8513 SEG
Item no. standard		25.646.0853.0	25.647.0853.0	27.647.0853.1
Item no. flange		25.646.3853.0	25.647.3853.0	
mm ² / AWG (fine-stranded)		Depending on the female connector used		
Current A	IEC/UL/CSA			
Voltage ¹⁾ V	IEC/UL/CSA			

Service at Wieland

For detailed technical data about this overview, as well as documents such as drawings and dimension diagrams, visit our eShop at eshop.wieland-electric.com

If you have questions about our products, our experts are available by telephone at +49 951 9324-994

Express sample delivery

We will be glad to send you samples of the items named in the overview within 48 hours of receipt of the order within Europe. All of these items are delivered in a box.



All products are available in 2- to 16-pole versions, 17- to 24-pole versions on request.

THR headers ²⁾					
8513 S/...G THR	8513 S/...W THR	8513 SEGN/...G THR	8513 SEGN/...W THR	8513 SDGN/...G THR	8513 SDGN/...W THR
25.646.0808.0	25.647.0806.0	25.656.0808.0	25.657.0808.0	25.666.0806.0	25.667.0506.0
		25.656.6808.0	25.657.6708.0	25.666.6806.0	25.667.6806.0
Depending on the female connector used			Depending on the female connector used		

1.5 mm ² connectors		
8513 B	8513 BFK	8513 BS
25.640.3853.0	25.630.3853.0	27.630.3253.0
25.641.3853.0	25.631.3853.0	27.631.3353.0
0.14 - 1.5 / 30 - 16	0.14 - 1.5 / 30 - 16	0.2 - 1.5 / 24 - 16
8 / 8 / 5	8 / 8 / 5	8 / 8 / 8
250 / 300 / 300	250 / 300 / 300	160 / 150 / 150

Flying connection

Inv. 1.5 mm ² connector	
8513 SU	8513 SUFK
25.648.3853.0	25.642.3853.0
0.14 - 1.5 / 30 - 16	0.14 - 1.5 / 30 - 16
8 / 8 / 5	8 / 8 / 5
250 / 300 / 300	250 / 300 / 300

3.81 mm pitch		THT headers	
		8813 S/...G	8813 S/...W
Item no. standard		25.626.0853.0	25.627.0853.0
Item no. flange		25.626.3453.0	25.627.3853.0
mm ² / AWG (fine-stranded)		Depending on the female connector used	
Current A	IEC/UL/CSA		
Voltage ¹⁾ V	IEC/UL/CSA		

THR headers ²⁾	
8813 S/...G THR	8813 S/...W THR
27.626.0808.0	27.627.0808.0
Upon request	Upon request
Depending on the female connector used	

1.5 mm ² connectors		
8813 B	8813 B VR	8813 B VL
25.620.3853.0	25.622.3853.0	25.624.3853.0
25.621.3853.0	25.623.3453.0	25.625.3853.0
0.14 - 1.5 / 30 - 16	0.14 - 1.5 / 30 - 16	0.14 - 1.5 / 30 - 16
8 / 8 / 5	8 / 8 / 5	8 / 8 / 5
250 / 300 / 300	250 / 300 / 300	250 / 300 / 300

Connection types:
S = Screw connection with rising cage clamp
F = tension spring connection
P = push-in connection
C = crimp connection

5.0 mm pitch		THT headers								
		8113 S/...G	8113 S/...W	8113 S/...GOF	8113 S/...WOF	8113 S/...S1	8113 SEG/...W	8113 SEG/...G	8113 SE/...G	8113 SE/...W
Item no. standard		25.330.3853.0	25.332.3853.0	99.208.9996.0	99.268.9996.0	25.394.3853.0	27.336.0953.0	27.334.0353.0	25.334.3353.0	25.336.3353.0
Item no. flange		25.338.3453.0	25.339.3853.0							
mm ² / AWG (fine-stranded)		Depending on the female connector used			Depending on the female connector used			Depending on the female connector used		
Current A	IEC/UL/CSA									
Voltage ¹⁾ V	IEC/UL/CSA									

THR headers ²⁾	
8113 S/...G THR	8113 S/...W THR
25.330.3406.0	25.332.3406.0
Depending on the female connector used	

2.5 mm ² connectors						IDC 0.75 mm ²
8113 B	8113 B VR	8113 B VL	8113 B TOP	8113 BFK	8113 BK	8113 BSK
25.320.3853.0	25.325.3853.0	25.326.3453.0	25.220.3453.0	25.820.3853.0	01.060.3853.0 (Iso)	25.399.9853.0
25.322.3853.0				25.821.3853.0	02.125.1727.0 Contacts	
0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 22 - 12	0.5 - 2.5 / 21 - 12	0.75 / 20 - 18
12 / 15 / 15	12 / 15 / 15	12 / 15 / 15	12 / 15 / 15	12 / 12 / 12	12 / 15 / 13	3 / 3 / 3
400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300

Board to board

5.08 mm pitch		THT headers								
		8213 S/...G	8213 S/...W	8213 S/...GOF	8213 S/...WOF	8213 S/...S1	8213 SEG/...W	8213 SEG/...G	8213 SE/...G	8213 SE/...W
Item no. standard		25.350.3853.0	25.352.3853.0	99.236.9996.1	99.208.9996.2	25.396.3853.0	27.356.0353.0	Upon request	25.354.3353.0	25.356.3253.0
Item no. flange		25.359.3453.0	25.358.4053.0							
mm ² / AWG (fine-stranded)		Depending on the female connector used			Depending on the female connector used			Depending on the female connector used		
Current A	IEC/UL/CSA									
Voltage ¹⁾ V	IEC/UL/CSA									



Inv. THT connector	
8213 BL/...G	8213 BL/...W
25.342.3653.0	25.343.3353.0
-	-
12 / 15 / 15	12 / 15 / 15
690 / 300 / 300	690 / 300 / 300

THR headers ²⁾			
8213 S/...G THR	8213 S/...W THR	8213 S/...GOF THR	8213 S/...WOF THR
25.350.3606.0	25.352.3406.0	26.350.3606.0	26.352.3806.0
25.359.3306.0	25.358.3806.0		
Depending on the female connector used			



2.5 mm ² connectors						Inv. connector
8213 B	8213 B VR	8213 B VL	8213 B TOP	8213 BFK	8213 B/...S	8213 SUFK
25.340.3853.0	25.345.3853.0	25.346.3853.0	25.240.3853.0	25.840.3553.0	27.341.3553.0	25.857.3553.0
25.323.3353.0	25.344.3853.0	25.349.3853.0	25.245.3853.0	25.841.3453.0 / 25.843.0853.0		
0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 30 - 12	0.2 - 2.5 / 22 - 12	0.5 - 2.5 / 26 - 12	0.2 - 2.5 / 22 - 12
12 / 15 / 15	12 / 15 / 15	12 / 15 / 15	12 / 15 / 15	12 / 12 / 12	12 / 10 / 15	12 / 12 / 12
400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300



¹⁾ Rated voltage for overvoltage category III / pollution degree 2
²⁾ Plug connectors are available in different lengths






Printed circuit board connectors

7.5 mm pitch			THT headers	
				
			8313 S/...G	8313 S/...W
Item no. standard			25.370.3853.0	25.372.3753.0
Item no. flange			25.374.6853.0	25.374.2453.0
mm ² / AWG (fine-stranded)			Depending on the female connector used	
Current	A	IEC/UL/CSA		
Voltage ¹⁾	V	IEC/UL/CSA		

Connection types:
S = Screw connection with rising cage clamp
F = tension spring connection


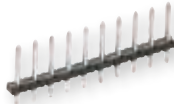

7.5 mm pitch			2.5 mm ² connector	
				
			S	also
			8313 B	
Item no. standard			25.360.3553.0	
Item no. flange			25.324.2253.0	
mm ² / AWG (fine-stranded)			0.14 - 2.5 / 22 - 12	
Current	A	IEC/UL/CSA	12 / 15 / 15	
Voltage ¹⁾	V	IEC/UL/CSA	690 / 300 / 300	

7.62 mm pitch			THT headers	
				
			8413 S/...G	8413 S/...W
Item no. standard			25.390.3853.0	25.392.3853.0
Item no. flange			25.398.6853.0	25.398.2853.0
mm ² / AWG (fine-stranded)			Depending on the female connector used	
Current	A	IEC/UL/CSA		
Voltage ¹⁾	V	IEC/UL/CSA		

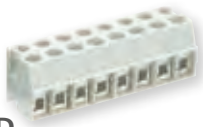


7.62 mm pitch			2.5 mm ² connector				
							
			S	also 	S	S	F
			8413 B	8413 B VR	8413 B VL	8413 BFK	
Item no. standard			25.380.3753.0	25.385.2653.0	25.386.2353.0	25.880.3653.0	
Item no. flange			25.324.6853.0			25.881.3853.0	
mm ² / AWG (fine-stranded)			0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	
Current	A	IEC/UL/CSA	12 / 15 / 15	12 / 15 / 15	12 / 15 / 15	12 / 15 / 15	
Voltage ¹⁾	V	IEC/UL/CSA	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	

¹⁾ Rated voltage for overvoltage category III / pollution degree 2





3.5 mm pitch

	Pluggable Terminal Block		Headers ³⁾	
				
	D			
	8543		Straight	90° angled
Item no. standard	25.602.5853.0		Z5.531.4025.0	Z5.532.3825.0
			Soldered pin Ø 1 mm	Soldered pin Ø 1 mm
mm ² / AWG (fine-stranded)	0.1 - 1.0 / 22 - 16		Z5.531.0825.0	Z5.532.0625.0
Current A IEC/UL/CSA	6 / 10 / 10		Soldered pin Ø 0.8 mm	Soldered pin Ø 0.8 mm
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300			




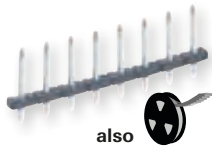
5.0 mm pitch

	Pluggable Terminal Block		
			
	D	S	S
	8142	8142 Z PR	8142 Z PR HC
Item no. standard	25.602.2853.0	25.615.1253.3	25.616.1253.3
Item no. flange	Pull-off force <2.5 N/pole		
mm ² / AWG (fine-stranded)	0.14 - 2.5 / 22 - 12	0.5 - 2.5 / 20 - 14	0.5 - 2.5 / 20 - 14
Current A IEC/UL/CSA	8 / 13 / 15	3 / 3 / 3	10 / 10 / 10 ²⁾
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300	250 / 300 / 300	250 / 300 / 300

Connection types:
D = Screw connection with wire protection
S = Screw connection with rising cage clamp

	Pluggable Terminal Block			
				
	S	S	S	NEW
	8142 Z	8142 Z RF	8142 Z F2	8142 ZP
Item no. standard	25.612.0356.1	25.613.0356.1	27.602.3653.0	25.617.0355.0
Item no. flange				
mm ² / AWG (fine-stranded)	0.5 - 2.5 / 20 - 14	0.5 - 2.5 / 20 - 14	0.14 - 1.5 / 26 - 14	0.14 - 2.5
Current A IEC/UL/CSA	3 / 3 / 3	3 / 3 / 3	8 / 12 / 12	UL/CSA applied for
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300	250 / 300 / 300	250 / 300 / 300	UL/CSA applied for

Headers ³⁾

				
	90° angled	Straight 14.5 mm	Straight 12.0 mm	Straight THR 14.5 mm
Item no. standard	Z5.540.3825.0	Z5.530.3825.0	Z5.529.0825.0	Z5.530.0804.0
	Soldered pin Ø 1.3 mm	Soldered pin Ø 1.3 mm	Soldered pin Ø 1.3 mm	Soldered pin Ø 1.3 mm
	Z5.540.0825.0	Z5.542.0825.0	Z5.530.0825.0	
	Soldered pin Ø 1.0 mm	Soldered pin Ø 1.0 mm	Soldered pin Ø 1.0 mm	

¹⁾ Rated voltage for overvoltage category III / pollution degree 2

²⁾ Only in connection with silver-plated plug connector

³⁾ Plug connectors are available in different lengths

3.5 mm pitch

Edge connectors



S

DST 85



S

DST LF 85

Item no. standard	25.003.0353.0	25.005.0353.0
Item no. flange	-	-
mm ² / AWG (fine-stranded)	0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14
Current A IEC/UL/CSA	6 / 6 / 6	6 / 6 / 6
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300	250 / 300 / 300

5.0 mm pitch

Edge connectors



S

also



S

also

LPST L 1

LPST 1

Item no. standard	25.001.0856.0	25.010.0856.0
	With solder pin	Without solder pin
mm ² / AWG (fine-stranded)	0.14 - 2.5 / 22 - 14	0.14 - 2.5 / 22 - 14
Current A IEC/UL/CSA	5 / 5 / 5	5 / 5 / 5
Voltage ¹⁾ V IEC/UL/CSA	690 / 300 / 300	690 / 300 / 300

Service at Wieland

For detailed technical data about this overview, as well as documents such as drawings and dimension diagrams, visit our eShop at eshop.wieland-electric.com

If you have questions about our products, our experts are available by telephone at +49 951 9324-994

Express sample delivery

We will be glad to send you samples of the items named in the overview within 48 hours of receipt of the order within Europe.

All of these items are delivered in a box.

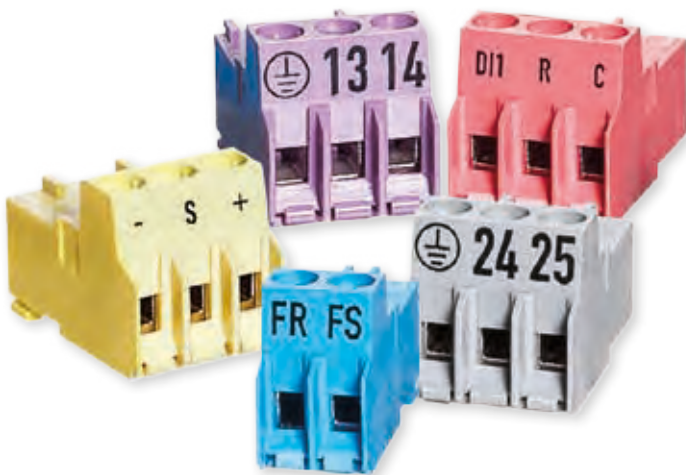


All products are available in 2- to 12-pole versions.

RAST 5.

Standardized products with “pitch connection plug technology” in 5 mm pitch.

The Wieland 8105 series offers a wide variety of codings, colors and printing and sets the quality standard on the market. The available materials fulfill standard requirements as well as those of DIN EN 60335-1.



Individual printing according to your requests

No Flame colors

	RAL	Name
	1016	Sulfur yellow
	1021	Rapeseed yellow
	2012	Salmon orange
	3014	Dusky pink
	4009	Pastel violet
	5012	Light blue
	6005	Moss green
	6027	Light green
	7001	Silver gray
	7015	Slate gray
	7021	Black gray
	8019	Gray brown
	9010	Pure white

Features:

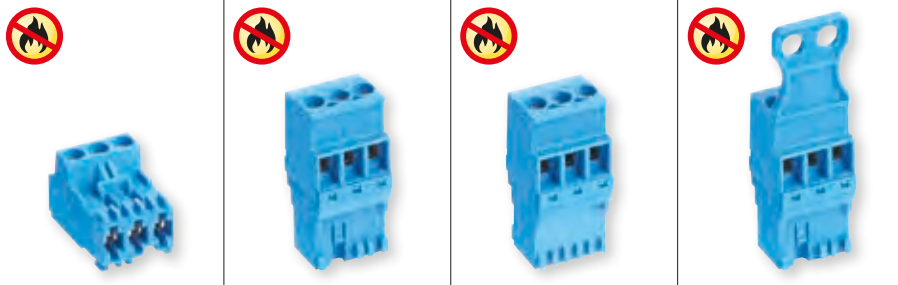
- Conductor cross-sections from 0.14 mm² to 4 mm²
- For currents up to 10A and voltages up to 400V
- With screw connection
- Can be arranged without loss of poles

Advantages:

- High number of coding possibilities (see page 38)
- Standard in the heating industry
- Clear assignment thanks to colored insulating housings (23 possible colors)
- Standardized system
- With the use of **No Flame** parts, the requirements of DIN EN 60335-1 are fulfilled without limitations
- Wide variety and many possibilities for customization

5.0 mm pitch

2.5 mm² socket contact



8105 B **8105 B VR** **8105 B VL** **8105 B VRA**

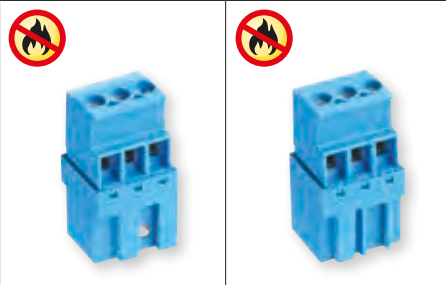
Item No.	15.000.0357.2	15.020.0357.2	15.010.0357.2	15.040.0357.2
mm ² / AWG (fine-stranded)	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12
Current A	IEC/UL/CSA 10 / 10 / 10	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10
Voltage V	IEC/UL/CSA 400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300

2.5 mm² socket contact



8105 B VLA

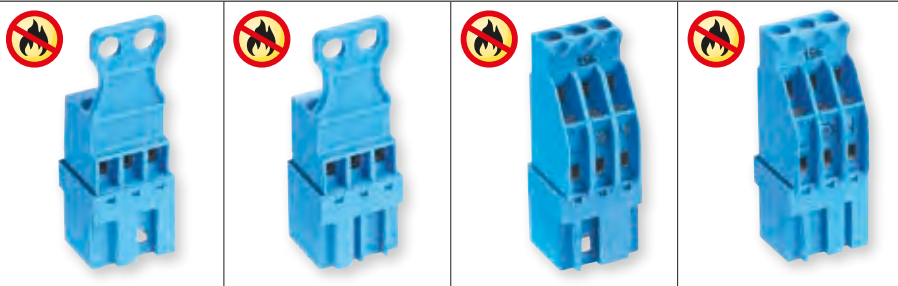
2.5 mm² tab contact



8105 FU VR **8105 FU VL**

Item No.	15.030.0357.2	15.421.0357.2	15.411.0357.2
mm ² / AWG (fine-stranded)	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12
Current A	IEC/UL/CSA 10 / 10 / 10	10 / 10 / 10	10 / 10 / 10
Voltage V	IEC/UL/CSA 400 / 300 / 300	400 / 300 / 300	400 / 300 / 300

2.5 mm² tab contact



8105 FU VRA **8105 FU VLA** **8105 FUE VR** **8105 FUE VL**

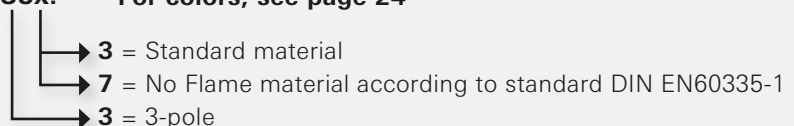
Item No.	15.441.0357.2	15.431.0357.2	15.521.0357.1	15.511.0357.1
mm ² / AWG (fine-stranded)	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12	0.14 - 2.5 / 26 - 12
Current A	IEC/UL/CSA 10 / 10 / 10	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10
Voltage V	IEC/UL/CSA 400 / 300 / 300	400 / 300 / 300	400 / 300 / 300	400 / 300 / 300



Important for your order:

The Wieland numbering system: **No Flame parts can be distinguished using the last but one place of the part number, for example**

15.000.035x.* * For colors, see page 24



Sample service

We will be glad to send you sample parts within 48 hours of receipt of order within Europe.

Printed circuit board terminals.

Universal connection technology for the highest current and voltage requirements in all applications.

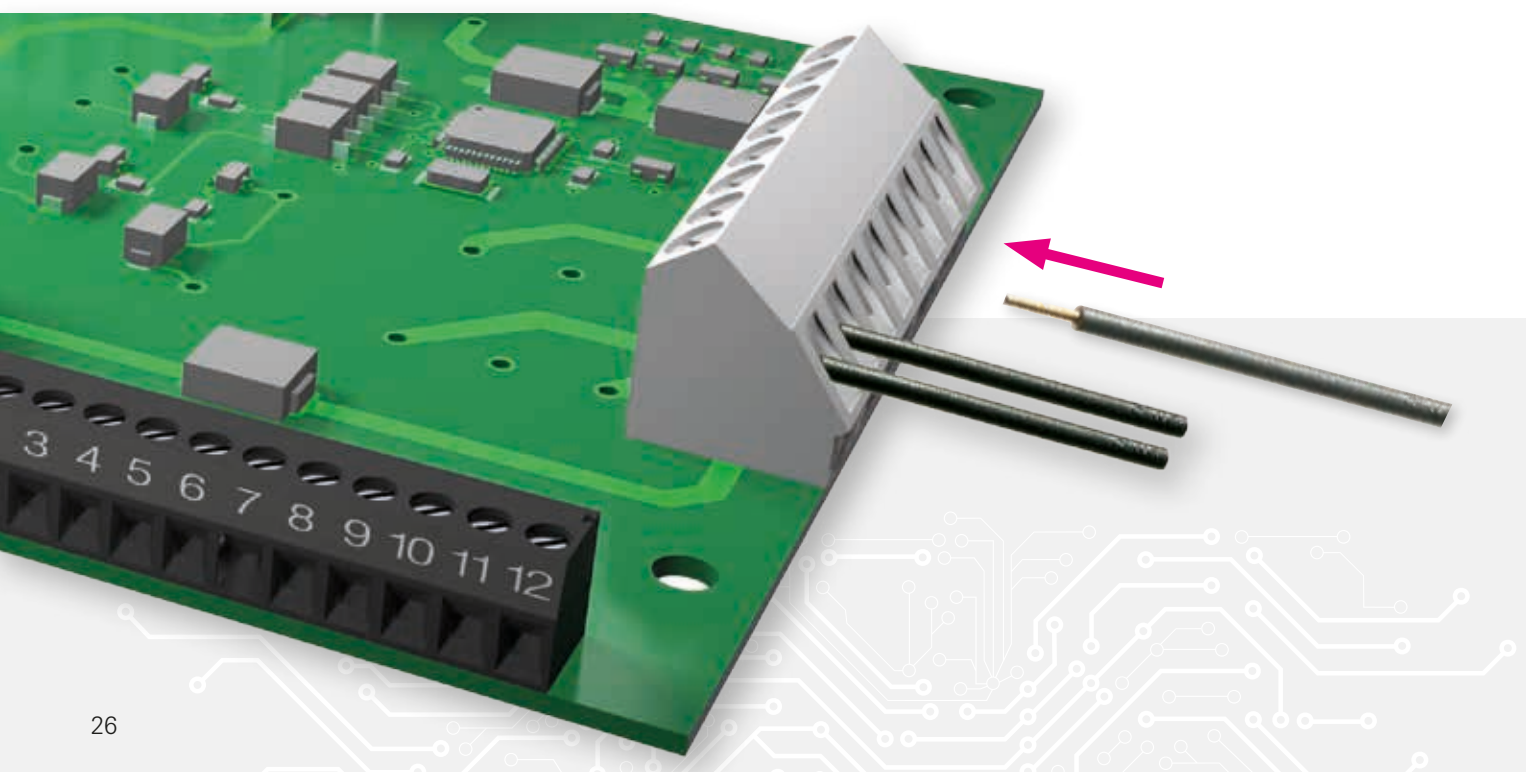
Secure connection, high quality, economical solution! The simple PCB terminal block is available in a wide number of variants and is characterized by high contact reliability.

Features:

- Cross-sections from **0.14 mm²** to **16 mm²**
- For currents up to **76A** and voltages up to **1000V**
- With screw, tension spring or push-in connection
- Pitches 3.5mm to 10.16mm
- THR products in a wide variety of packaging, such as tape-on-reel, tray, box
- **No Flame** variants available
- Female connectors **can be arranged in a pitch**
- Test point

Advantages:

- Space-saving since only one component is required for conductor connection
- Low contact resistance
- Universal application
- Secure connection
- Easily available



Screw connection with rising cage clamp

Push-in connection

3.5 mm pitch

1.5 mm²

	8593	8593 THR
Item No.	25.195.0853.0	25.195.0206.0
mm ² / AWG (fine-stranded)	0.14 - 1.0 / 30 - 16	0.14 - 1.0 / 30 - 16
Current A IEC/UL/CSA	10 / 10 / 10	10 / 10 / 10 ²⁾
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300	250 / 300 / 300

	8562 N
Item No.	27.010.3653.0
mm ² / AWG (fine-stranded)	0.5 - 1.5 / 28 - 14
Current A IEC/UL/CSA	2 / 2 / 2
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300

3.81 mm pitch

1 mm²

	8893
Item No.	25.197.0853.0
mm ² / AWG (fine-stranded)	0.14 - 1.0 / 30 - 16
Current A IEC/UL/CSA	10 / 10 / 10
Voltage ¹⁾ V IEC/UL/CSA	250 / 300 / 300

***End plate**

Please order for all items marked with *.

AP 8185 TOP N

Item No. 07.300.4753.0

Service at Wieland

For detailed technical data about this overview, as well as documents such as drawings and dimension diagrams, visit our eShop at eshop.wieland-electric.com

If you have questions about our products, our experts are available by telephone at +49 951 9324-994

Express sample delivery

We will be glad to send you samples of the items named in the overview within 48 hours of receipt of the order within Europe. All of these items are delivered in a box.



All products are available in 2- to 16-pole versions, 17- to 24-pole versions on request.

Tension spring connection

2.5 mm²

8158 TOP V	8158 TOP H	8191 FK
25.780.0653.0	25.790.0653.0	27.007.3253.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.08 - 2.5 / 28 - 12
16 / 20 / 20	16 / 20 / 20	16 / 15 / 15
690 / 300 / 300	690 / 300 / 300	250 / 300 / 300

5.0 mm pitch

1.5 mm²

2.5 mm²

8192	8192 E	8192 ZW	8134	8195 D / VB1	8195 V / VB1
25.191.0553.0	25.198.5553.0	25.191.6353.0	25.501.0853.0	25.153.6653.0	25.154.6653.0
0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14	0.5 - 1.5 / 30 - 14; PE 0.5 - 2.5 / 20 - 12	0.5 - 1.5 / 30 - 14; PE 0.5 - 2.5 / 20 - 12
10 / 15 / 15	10 / 15 / 15	10 / 15 / 15	10 / 15 / 15	10 / 10 / 10	10 / 10 / 10
690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300

5.0 mm pitch

2.5 mm²

8191 R	8191	8191 E	8191 D	8191 ZW	8185 TOP V	8185 TOP H	8135	8190	8190 E
25.155.0853.0	25.161.0853.0	25.178.5353.0	25.180.5653.0	25.161.6253.0	25.741.0653.0 *	25.741.0653.0 *	25.521.0653.0	25.131.0253.0	25.131.3353.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.5 - 2.5 / 22 - 12	0.5 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.5 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 14
16 / 20 / 25	16 / 20 / 25	16 / 20 / 25	16 / 20 / 25	16 / 20 / 25	16 / 20 / 20	16 / 20 / 20	16 / 20 / 25	16 / 15 / 10	16 / 15 / 10
690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300

5.08 mm pitch

1.5 mm²

2.5 mm²

8292	8292 E	8292 ZW	8234	8292 H	8292 EH	8292 DH	8291	8291 E	8291 D
25.193.0853.0	25.199.5353.0	25.193.6553.0	25.503.0353.0	27.000.0353.0	27.000.2253.0	27.000.4253.0	25.163.0353.0	25.179.5353.0	25.181.5353.0
0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14	0.14 - 1.5 / 30 - 14	0.5 - 1.5 / 24 - 14	0.5 - 1.5 / 24 - 14	0.5 - 1.5 / 24 - 14	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12
10 / 15 / 15	10 / 15 / 15	10 / 15 / 15	10 / 15 / 15	15 / 10 / 10	15 / 10 / 10	15 / 10 / 10	16 / 20 / 25	16 / 20 / 25	16 / 20 / 25
690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	250 / 300 / 300	250 / 300 / 300	250 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300

Screw connection with rising cage clamp

5.08 mm pitch

2.5 mm²

8291 ZW	8291 R	8285 TOP V	8285 TOP H	8235	8276	8276 TKS	8276 SI-D
25.163.6353.0	25.156.0653.0	25.751.0853.0*	25.751.3353.0*	25.523.0853.0	25.720.1353.0	25.720.1453.0	25.720.1653.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.5 - 2.5 / 22-12	0.5 - 2.5 / 22 - 12	0.14 - 2.5 / 30 - 14	0.14 - 2.5 / 30 - 14	0.14 - 2.5 / 30 - 14	0.14 - 2.5 / 30-14
16 / 20 / 25	16 / 20 / 25	16 / 20 / 20	16 / 20 / 20	16 / 20 / 25	26 / 15 / 20	15 / 15 / 20	6.3 / 6.3 / 6.3
690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	690 / 300 / 300	400 / 300 / 300	400 / 300 / 300	690 / 300 / 300

5.08 mm pitch

4 mm²

7386 TOP H
27.714.0353.0
0.5 - 4 / 22 - 10
36 / 30 / 30
320 / 300 / 300

7.5 mm pitch

2.5 mm²

4 mm²

8391	8391 ZW	8385 TOP V	8385 TOP H	8390	8375
25.165.0353.0	25.165.6253.0	25.761.0653.0*	25.761.3353.0*	25.151.0353.0	25.700.0253.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 4 / 22 - 10
16 / 20 / 25	16 / 20 / 25	16 / 20 / 20	16 / 20 / 20	16 / 15 / 10	30 / 30 / 30
1000 / 300 / 300	1000 / 300 / 300	1000 / 300 / 300	1000 / 300 / 300	1000 / 300 / 300	1000 / 300 / 300

7.62 mm pitch

2.5 mm²

4 mm²

6 mm²

8491	8491 ZW	8485 TOP V	8485 TOP H	8486 TOP V	8486 TOP H	8474
25.167.0353.0	25.167.6453.0	25.771.0653.0*	25.771.3253.0*	27.703.0453.0	27.713.0253.0	27.011.3253.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12	0.5 - 4 / 22 - 10	0.5 - 4 / 22 - 10	0.5 - 6 / 20 - 10
16 / 20 / 25	16 / 20 / 25	16 / 20 / 20	16 / 20 / 20	36 / 30 / 30	36 / 30 / 30	16 / 30 / 30
1000 / 300 / 300	1000 / 300 / 300	1000 / 300 / 300	1000 / 300 / 300	500 / 300 / 300	500 / 300 / 300	250 / 300 / 300

10.16 mm pitch

10 mm²

7572 L2	7572 L4	7573 L2..W
27.002.2253.0	27.002.0253.0	27.002.6153.0
0.5 - 10 / 22 - 8	0.5 - 10 / 22 - 8	0.5 - 10 / 26 - 8
76 / 65 / 65	76 / 65 / 65	59 / 40 / 40
690 / 300 / 300	690 / 300 / 300	690 / 300 / 300

5.04 mm pitch

Push-In

8152 TOP V
27.720.0553.0
0.14 - 2.5 / 26 - 14
16 / 10 / 10
250 / 300 / 300

Tension spring connection

2.5 mm²

8258 TOP V	8258 TOP H
25.781.0353.0	25.791.0653.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12
16 / 20 / 20	16 / 20 / 20
690 / 300 / 300	690 / 300 / 300

2.5 mm²

8291 EFK	8291 DFK
27.008.3453.0	27.009.3253.0
0.08 - 2.5 / 28 - 12	0.08 - 2.5 / 28 - 12
12 / 10 / 10	12 / 10 / 10
250 / 300 / 300	250 / 300 / 300

2.5 mm²

8358 TOP V	8358 TOP H
25.782.0353.0	25.792.0453.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12
16 / 20 / 20	16 / 20 / 20
1000 / 300 / 300	1000 / 300 / 300

2.5 mm²

8458 TOP V	8458 TOP H
25.783.0453.0	25.793.0453.0
0.14 - 2.5 / 22 - 12	0.14 - 2.5 / 22 - 12
16 / 20 / 20	16 / 20 / 20
1000 / 300 / 300	1000 / 300 / 300

*End plate

Please order for all items marked with *.

AP 8185 TOP N

Item No. 07.300.4753.0

¹⁾ Rated voltage for overvoltage category III / pollution degree 2



Individual markings

Printing in tampoprint or ink-jet processes, also multi-colored



Compact geometry

Best possible use of the terminal space according to the DIN size



Process-optimized packaging

Components in box packaging, tape-on-reel or tray appropriate for your process



Multi-level variants

Make space thanks to high packaging and connection density



Distinguishable by color

Large number of available color variants



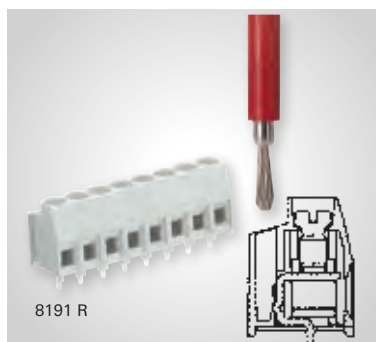
Space-saving placement

45° connector outlet allows the placement of clamp on clamp in several rows



Individual clamp fitting

Pre-assembled jumpers, empty poles, closed clamping space, your choice



Integrated test points

Direct access to voltage-conducting parts with standard test plugs

FSC Fast signal connection.

The pluggable signal transfer – no mistaken connections.

With the FSC system **you save time and space** while signal cabling **in the control cabinet**. Thanks to the integrated signal distribution with and without electronics, the completely-pluggable system can be adapted individually to customers' needs. **Cable glands are a thing of the past**; thanks to the coding, mistaken connections are not possible. **Installation is so easy and safe that no trained personnel is required.**

Features:

- Mistaken connections impossible
- **30% space savings**
- Installation-ready delivery
- **80% less assembly time**
- Minimal preparatory work. Only **one sheet metal cutout** is required.

YouTube

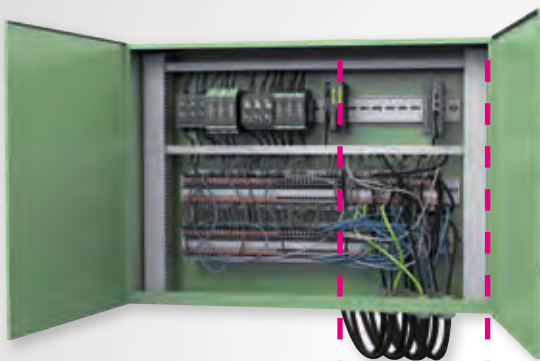


EXPERIENCE IT LIVE!
The future of the control cabinet!
Transmit signals quickly, safely,
flexibly and efficiently – and
extremely space saving.

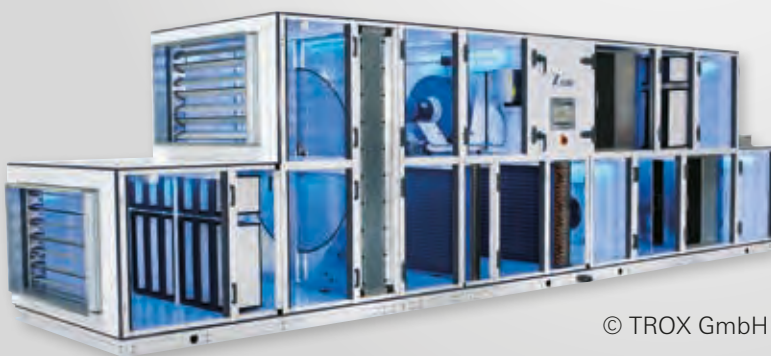
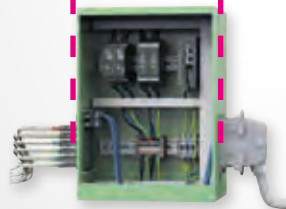
Control cabinet revolution.

No more inconvenience!

Before



After



© TROX GmbH



Compact

- Reduction of control cabinet size by at least **30%**



Fast

- Tool-free intuitive connection, also color-coded
- Plugging instead of wiring



Safe

- No specialists required for plugging the external wiring
- Integrated mechanical coding = error-free plugging



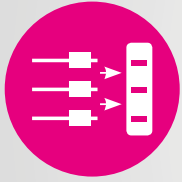
Flexible

- Customer-specific electronic solutions
- Cables individually pre-assembled
- Interchangeable, maintenance-friendly components



Efficient

- Control cabinet entries, signal distribution and electronics in one product
- Complete solution from just one source
- Time and cost savings thanks to pre-assembled cables
- Optimized logistics and production
- **80%** savings of assembly time



Value-creation combination.

Secure control cabinet entry & electronics in a single product.



Patch cable | Y-cable

- 32 coding options
- Molded cable in the desired length
- 3 to 6-pole
- **Cable shield applied to pole**
- Cable and coding 100% checked
- Cross-sections 0.14 mm² - 1 mm²
- Cable marking with text/color

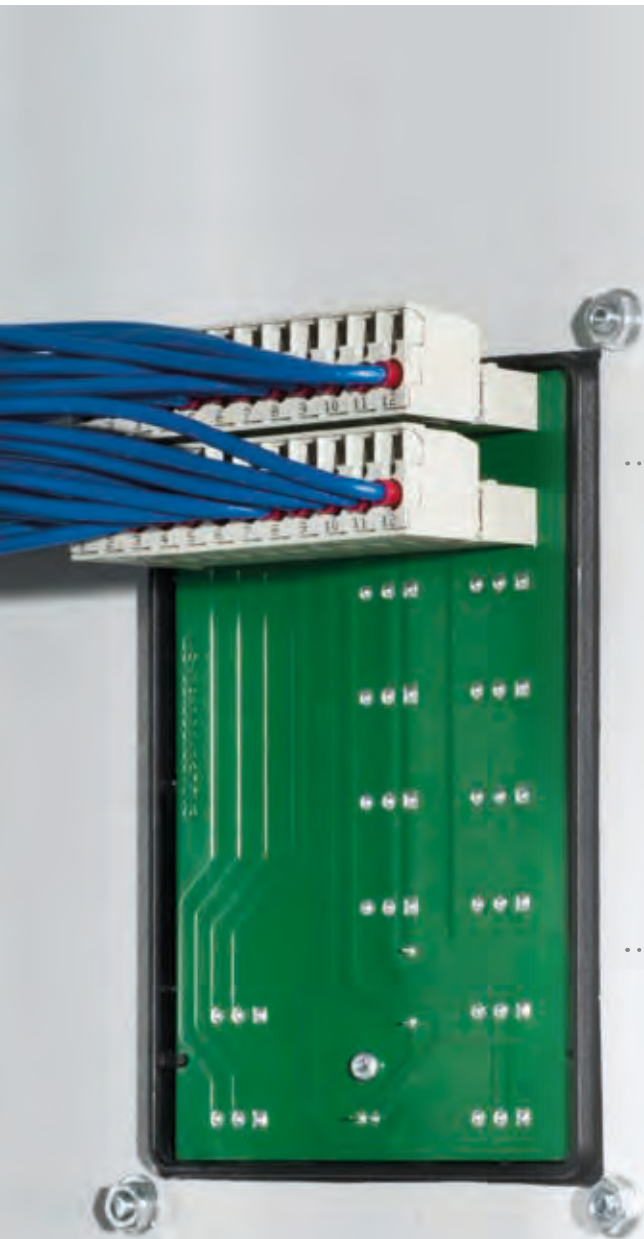


Robust housing

- Housing from durable plastic
- **IP 54 through integrated seal**
- Every slot has its own coding
- Printed to customer requirements
- Adapter plates for control cabinet openings upon request

6-pole Y-cable





Board connection area

- pluggable, flexible
- 80% faster installation
- Pre-assembled with cable
- Connectors and headers in pitches of 3.5 mm to 5.08 mm (see also page 17)
- Screw, spring or push-in connection technology



Electronic system

- Circuit board as a pure feed through solution or electronic **special solution** to customer requirements
- Coated to protect against damaging environmental conditions upon request



Technical data

- Nominal voltage 24V DC, nominal current 3A
- IP54 protection class
- 10/12 slots (more upon request)
- UL and CSA approvals
- Order numbers on request



The household appliance standard.

DIN EN/IEC 60335-1

This standard standardizes the safety of electrical appliances for household use and commercial purposes whose rated voltage does not exceed 250 V for single-phase appliances and 480 V for other appliances. In chapter 30: "Heat and fire resistance," the topic is discussed in more detail. Affected are parts of non-metallic materials, which keep active parts (e.g. connection elements) in their position. These must be resistant to ignition and the spread of fire. These fire resistance requirements should prevent unattended devices from igniting themselves. On the market, this designation is called "**No Flame**." It applies for manufacturers of electric and electronic household components as well as for appliances in medium-sized operations.



Examples of affected appliance groups and areas of application:

Kitchen appliances

- Dishwashers
- Ranges, stovetops, ovens
- Food processors

Home & garden

- Hot water heaters and hot water tanks
- Gas, oil and solid fuel appliances with electrical connections

Other household connections

- Dryers
- Room heaters, such as radiant heaters, electric stoves
- Electrically-operated heat pumps, air conditioners and room air dehumidifiers

Appliances used outdoors

- Pumps
- Electrical vending machines such as cigarette, beverage, candy, ticket vending machines

Industry & trade

- Circulation pumps for heating and process water systems

General data

- Thermal storage heaters
- Air purification and treatment appliances, air humidifiers
- Fans

No Flame

facts & data

Wieland Electric GmbH is an experienced, expert partner in the area of pluggable electronic installations and connection technology. Service to the customer and the quality of our products are the top maxim of our activities. **As a company with a strong sense of responsibility, we see it as an obligation to our customers to point out the following:**

Our connection systems and terminal blocks stand for a simple, fast and safe installation. They have been type-tested and certified in accordance with the standards **IEC 61535, IEC 61984, IEC 60947-7...**, **DIN EN 60998** and **DIN EN 60999** and comply with the current state of standardization. This pertains to the classical pluggable electrical installation just as much as to the use as connection components in machines and other electrical devices.

For the use of connectors in operating equipment subject to **DIN EN 60335-1** ("Safety of household and similar electrical appliances"), Section 30, "Heat and fire resistance", must be referred to for evaluation of fire hazards. Especially for components used in appliances which are operated unattended and conduct a current of >0.2 amperes during normal operation, according to Section 30.2.3 of this standard, there are more stringent conditions within the range of 3 millimeters around the live electrical parts.

Many of the parts in our catalog fulfill these requirements, either through the use of materials of fire class V-0 or V-1, or by verification of needle-flame testing according to **IEC 60695-11-5**. If there are additional, non-metallic materials within a defined cylindrical surrounding of 20 mm diameter and 50 mm height from the live connections, these components must also fulfill the above criteria. We would be happy to assist you with selection of the suitable catalog product.

As an alternative, we offer our customers a specific order number group for ordering "**No-Flame**" products. This is not a release from the obligation of the standard, to evaluate the surroundings within a distance of 3 mm to the support of live parts.

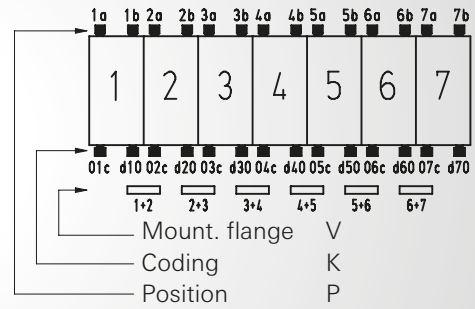
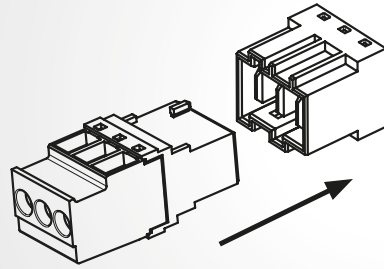
Example: Printed circuit board connector

Standard part number	25.320.0453.2
No-Flame part number	25.320.04 57 .2

For this purpose, we employ special plastics which have successfully undergone a glow wire test, either as test plates according to GWIT (Glow Wire Ignition Temperature) or as the component itself regarding GWT (Glow Wire Test). Corresponding VDE verification is available. Please note that not all colors of the standard product are available as "**No-Flame**" material and in individual cases, color deviations may occur.

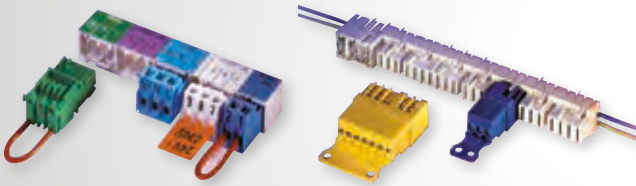


Matrix: Codings




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

Combination possibilities



*) Customer-specific trays, for additional details please contact STOCKO Contact

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 	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
 8105 B	 	 	 		 
 8105 B VL	 	 	 		 
 8105 B VR	 	 	 		 
 8105 B VL A	 	 	 		 
 8105 B VR A	 	 	 		 
 Upon request 8105 FU				 	 
 8105 FU VL				 	 
 8105 FU VR				 	 
 8105 FU VL A				 	 
 8105 FU VR A				 	 
 8105 FUE VR				 	 
 8105 FUE VL				 	 



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