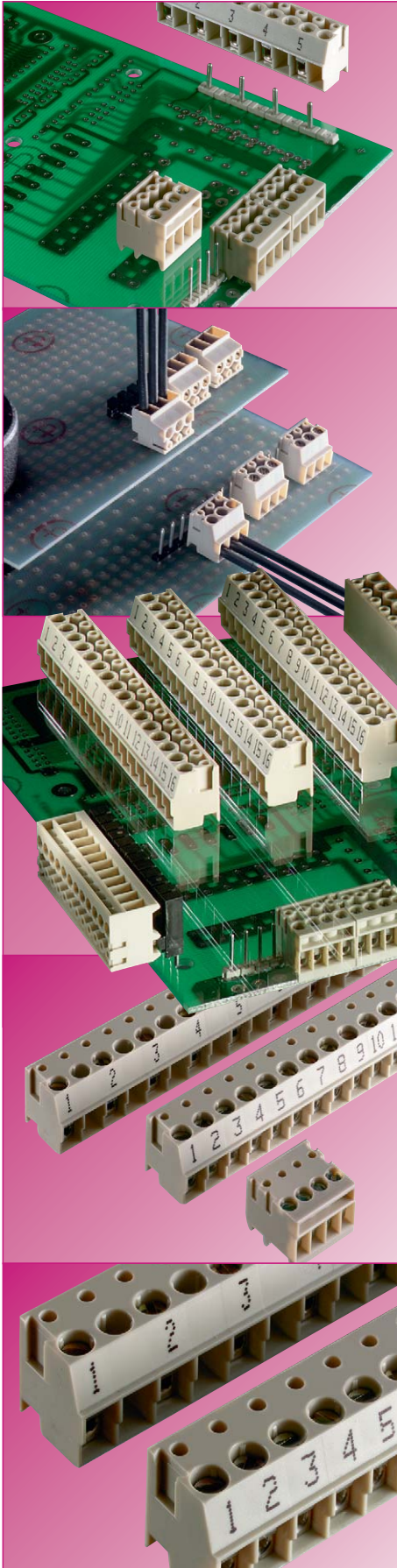


Pluggable PC board connectors with pin-strip headers

wiecon PCB



Pluggable connectors provide a simple 2-piece mateable connection between an external connector and the printed circuit board.

System features

- easy-to-operate screw termination
- installation and maintenance friendly
- quick disconnect
- pole configurations from 2 to 24 poles
- clear, straightforward connection
- mating in both horizontal and vertical orientations to the printed circuit board
- clamping body always with wire guard

Variety of types

- spacings: (3.5/7/5/10) mm
- 2 to 24 pole
- terminal strip headers with vertical or horizontal solder pins
- solder pin diameters available in: 0.8 mm, 1 mm and 1.3 mm others are on request

Marking

- smudge-proof inkjet marking directly on the plug
- clear, easily legible marking
- custom marking possible, consult factory
- cost-effective marking directly on the plug

Abbreviations for plastic materials:

PA 66/6 = Polyamide 66/6
 PC = Polycarbonate
 PBT = Polybutylenterephthalate

Material

Insulating housings:

- use of high-quality polycarbonate for its excellent electrical, mechanical and chemical characteristics (see **facts** & **DATA**)

Metal parts:

- made of special alloys and/or special surface platings
- minimum feed through resistance
- high corrosion resistance
- secure, consistent clamping function
- clamping body: nickel-plated brass
- clamping screw: steel, zinc-plated and dichromated
- plug contact of type 8142 and ST 29: tin-plated bronze
- plug contact of type 8543: nickel-plated brass
- wire guard: tin-plated bronze

Pin-strip headers:

- Insulating part: made from high-quality Polyamide 66/6
- glass-fibre reinforcement for dimensional stability
- Metal parts: contact pin: tin plated brass

Note:

The information regarding cross sectional areas and connection types pertains to connections without ferrules.

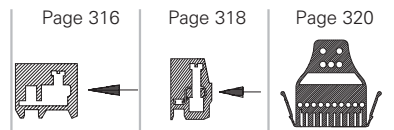
The indicated rated current pertains to the maximum load of the PC board connector with a connected wire of the indicated rated cross section.

The rated voltage is indicated as per DIN VDE 0110 part 1 (IEC 60 664-1) – insulation coordination for electrical material in low voltage application – and refers to the delivered state of the PC board connector.

Before the PC board is fitted with connectors, an appropriate PC board must be selected and dimensioned accordingly (e.g. regarding tracking resistance of the printed circuit board, distances of the leads and solder joints). Furthermore, the ambient conditions under which the device is to be used (pollution degree) must be considered.

The indicated rated voltages will be valid for the complete module only if the printed circuit board and its connectors are correctly and carefully matched to each other.

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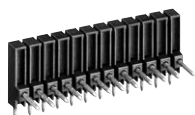
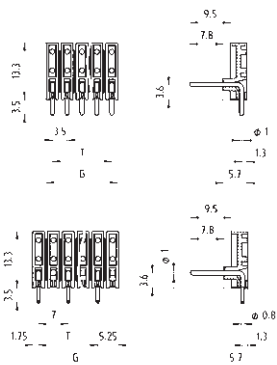


		Page 316	Page 318	Page 320
Type		8543	8142	ST 29
Spacing	mm	3.50/7.00	5.00/10.00	5.08
Cross section	mm²	1	2.5	1.5
Number of poles		2 – 24	2 – 24	10



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Spacing: 3.50 mm



Color: black Solder pin Ø 0.8 mm Bore hole Ø 1.0 mm
 Color: black Solder pin Ø 1.0 mm Bore hole Ø 1.3 mm

Terminal strip header

horizontal mount



Part no.	Part no.
Color: black	Color: black
Z5.532.0225.0	Z5.532.3225.0
Z5.532.0325.0	Z5.532.3325.0
Z5.532.0425.0	Z5.532.3425.0
Z5.532.0525.0	Z5.532.3525.0
Z5.532.0625.0	Z5.532.3625.0
Z5.532.0725.0	Z5.532.3725.0
Z5.532.0825.0	Z5.532.3825.0
Z5.532.0925.0	Z5.532.3925.0
Z5.532.1025.0	Z5.532.4025.0
Z5.532.1125.0	Z5.532.4125.0
Z5.532.1225.0	Z5.532.4225.0
Z5.532.1325.0	Z5.532.4325.0
Z5.532.1425.0	Z5.532.4425.0
Z5.532.1525.0	Z5.532.4525.0
Z5.532.1625.0	Z5.532.4625.0

PC board connectors pluggable, spacings: 5.00/10.00 mm

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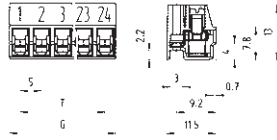
Rated cross section:
2.5 mm²

Rated current:
8 A

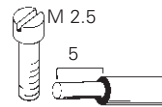
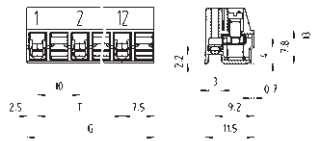
Connection range:
0.14 – 4.0 mm² solid/
0.14 – 2.5 mm² fine stranded

200 V/4 kV/3 – Overvoltage category III
250 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I

Spacing: 5.00 mm



Spacing: 10.00 mm



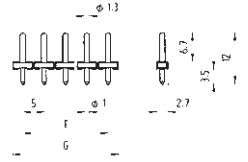
Type 8142

plug-in 90° to wire entry

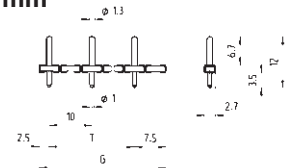
No. 22 – 12 AWG 300 V 15 A
No. 22 – 12 AWG 300 V 15 A



Spacing: 5.00 mm



Spacing: 10.00 mm



Color: gray Color: black
Solder pin Ø 1.0 mm Solder pin Ø 1.3 mm
Bore hole Ø 1.3 mm Bore hole Ø 1.6 mm

Terminal strip header

vertical mount



Rated voltages: VDE 0110 (spacing 5 mm)

UL ratings

CSA ratings

Approvals

Std. pack	G	T	Poles	Part no.	Part no.	Part no.	Part no.	
Spacing: 5.00 mm				unmarked	marked	Color: gray	Color: black	
100	10	5	2	25.602.2253.0	25.600.2253.0	Z5.530.0225.0	Z5.530.3225.0	
100	15	10	3	25.602.2353.0	25.600.2353.0	Z5.530.0325.0	Z5.530.3325.0	
50	20	15	4	25.602.2453.0	25.600.2453.0	Z5.530.0425.0	Z5.530.3425.0	
50	25	20	5	25.602.2553.0	25.600.2553.0	Z5.530.0525.0	Z5.530.3525.0	
50	30	25	6	25.602.2653.0	25.600.2653.0	Z5.530.0625.0	Z5.530.3625.0	
50	35	30	7	25.602.2753.0	25.600.2753.0	Z5.530.0725.0	Z5.530.3725.0	
50	40	35	8	25.602.2853.0	25.600.2853.0	Z5.530.0825.0	Z5.530.3825.0	
50	45	40	9	25.602.2953.0	25.600.2953.0	Z5.530.0925.0	Z5.530.3925.0	
50	50	45	10	25.602.3053.0	25.600.3053.0	Z5.530.1025.0	Z5.530.4025.0	
50	55	50	11	25.602.3153.0	25.600.3153.0	Z5.530.1125.0	Z5.530.4125.0	
50	60	55	12	25.602.3253.0	25.600.3253.0	Z5.530.1225.0	Z5.530.4225.0	
50	65	60	13	25.602.3353.0	25.600.3353.0	Z5.530.1325.0	Z5.530.4325.0	
50	70	65	14	25.602.3453.0	25.600.3453.0	Z5.530.1425.0	Z5.530.4425.0	
50	75	70	15	25.602.3553.0	25.600.3553.0	Z5.530.1525.0	Z5.530.4525.0	
50	80	75	16	25.602.3653.0	25.600.3653.0	Z5.530.1625.0	Z5.530.4625.0	
17 to 24pole upon request								
Spacing: 10.00 mm				unmarked	marked			
50	20	10	2	25.603.1253.0	25.601.1253.0	Z5.530.6225.0	Z5.530.8225.0	
50	30	20	3	25.603.1353.0	25.601.1353.0	Z5.530.6325.0	Z5.530.8325.0	
50	40	30	4	25.603.1453.0	25.601.1453.0	Z5.530.6425.0	Z5.530.8425.0	
50	50	40	5	25.603.1553.0	25.601.1553.0	Z5.530.6525.0	Z5.530.8525.0	
50	60	50	6	25.603.1653.0	25.601.1653.0	Z5.530.6625.0	Z5.530.8625.0	
50	70	60	7	25.603.1753.0	25.601.1753.0	Z5.530.6725.0	Z5.530.8725.0	
50	80	70	8	25.603.1853.0	25.601.1853.0	Z5.530.6825.0	Z5.530.8825.0	
9 to 12pole upon request								
Rated voltages: (spacing: 10.00 mm): VDE 0110				Material: PC board connectors Insulating housing: PC gray, UL 94-V-0 Clamping body: nickel-plated brass Clamping screws: zinc-plated steel Contact spring: tin-plated bronze				
500 V/8 kV/3 – Overvoltage category III 800 V/8 kV/2 – Overvoltage category II 1000 V/8 kV/1 – Overvoltage category I				Terminal strip header Insulating part: PA 66/6, glass-fibre reinforced gray or black, UL 94-V-0 Contact pin: tin-plated brass				

PC board connectors, pluggable, spacing: 5.08 mm

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codable

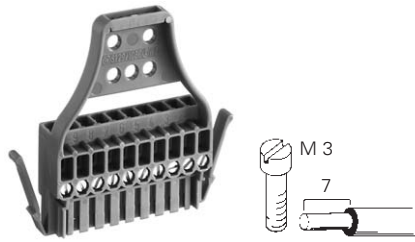
1,5 mm²

Rated cross section:
1.5 mm²

Rated current:
10 A

Connection range:
0.14 – 2.5 mm² solid/
0.14 – 1.5 mm² fine stranded

200 V/4 kV/3 – Overvoltage category III
250 V/4 kV/2 – Overvoltage category II
1000 V/4 kV/1 – Overvoltage category I



Statement of Conformity/CH

TOP connector, 10pole Type ST 29/10 BC

plug-in 90° to wire entry

1.5 mm² 250 V 10 A
No. 22 – 14 AWG 300 V 5 A
No. 22 – 14 AWG 300 V 5 A



Terminal strip header

vertical mount

250 V 10 A
300 V 5 A
(if all terminals carry current)



Rated voltages: VDE 0110
EN 60 998-1, EN 60 998-2-1
UL ratings
CSA ratings
Approvals

Spacing: 5.08 mm	Poles	Type	Part no.	Std. pack	Type	Part no.	Std. pack
	10	ST 29/10 BC	93.101.2053.0	50		Z5.599.9025.0	50

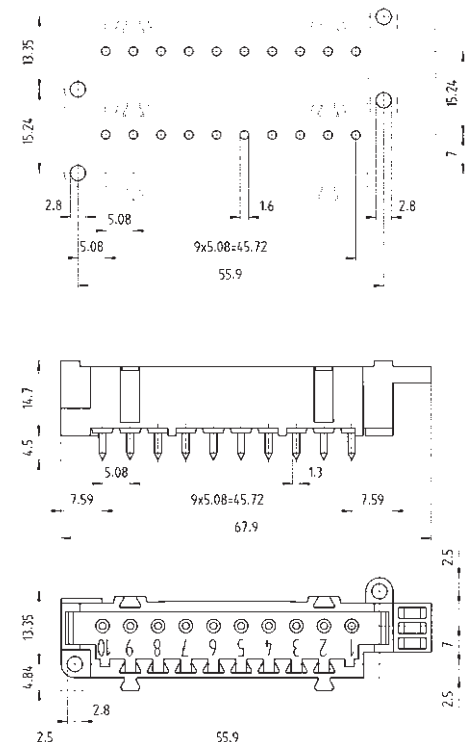
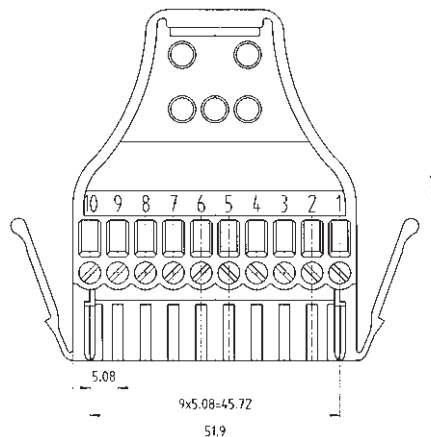
Material:

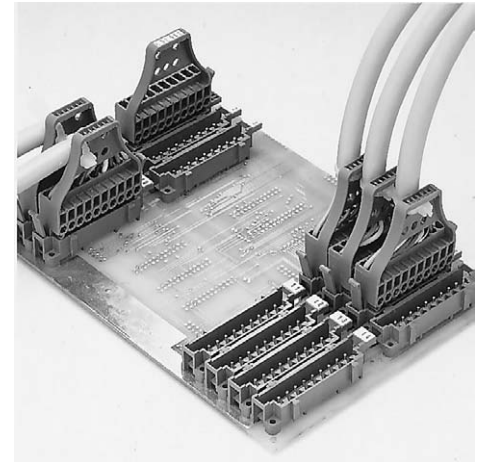
PC board connectors

Insulating housing: PA 66/6 gray, UL 94-V-2
Clamping body: nickel-plated brass
Clamping screws: zinc-plated steel
Contact spring: tin-plated bronze

Terminal strip header

Insulating part: PBT, glass-fibre reinforced gray, UL 94-V-0
Contact pin: tin-plated brass





	Type	Part no.	Std. pack
Accessories			
Coding pieces, 10 codings each per strip		05.599.8053.0	100
Marking tag, unmarked	9705 A	04.242.0850.0	500
marked	9705 AB	04.842.0850.0	500
Coding plan			
L = PC board connector			
S = terminal strip header			
Combination 01	S L L L L L L L S		
Combination 02	S L L L L L S L		
Combination 03	S L L L L S L L		
Combination 04	S L L L S L L L		
Combination 05	S L L S L L L L		
Combination 06	S L S L L L L L		
Combination 07	S S L L L L L L		
Combination 08	L S L L L L L S		
Combination 09	L S L L L L S L		
Combination 10	L S L L L S L L		
Combination 11	L S L L S L L L		
Combination 12	L S L S L L L L		
Combination 13	L S S L L L L L		
Combination 14	L L S L L L L S		
etc.			

Pluggable terminal strip header with TOP connection

A special version of the TOP system is the 5.08 mm spaced terminal strip header which can be soldered into a PC board. Two mounting holes are available in order to fix the terminal strip header.

- Strain relief
- Locking device
- Marking capabilities

By means of dove-tail guides, several terminal strip headers can be snapped together, while only the outer headers of this group must be mechanically fixed on the printed circuit board. In order to guarantee the necessary stability on the printed circuit board, it is not recommended to exceed four terminal strip headers in a group.

The terminal TOP connector and terminal strip header each possess eight slots for coding to prevent mismatching the TOP plug-in system.