

wiecon

**Printed Circuit Board Terminals
Catalog 2014**





▲ Sales and Marketing Center in Bamberg



▲ Company headquarters in Bamberg



▲ STOCKO main plant in Wuppertal

wieland group

ACTIVE WORLDWIDE

The Wieland Group employs more than 2,000 people all around the globe. With some 15 locations and subsidiaries, and sales partners in more than 70 countries, Wieland Holding is present in nearly all important key markets worldwide. Always with a clear commitment to the German location where most of the products are still manufactured.



automation

building

electronics

The group makes us strong

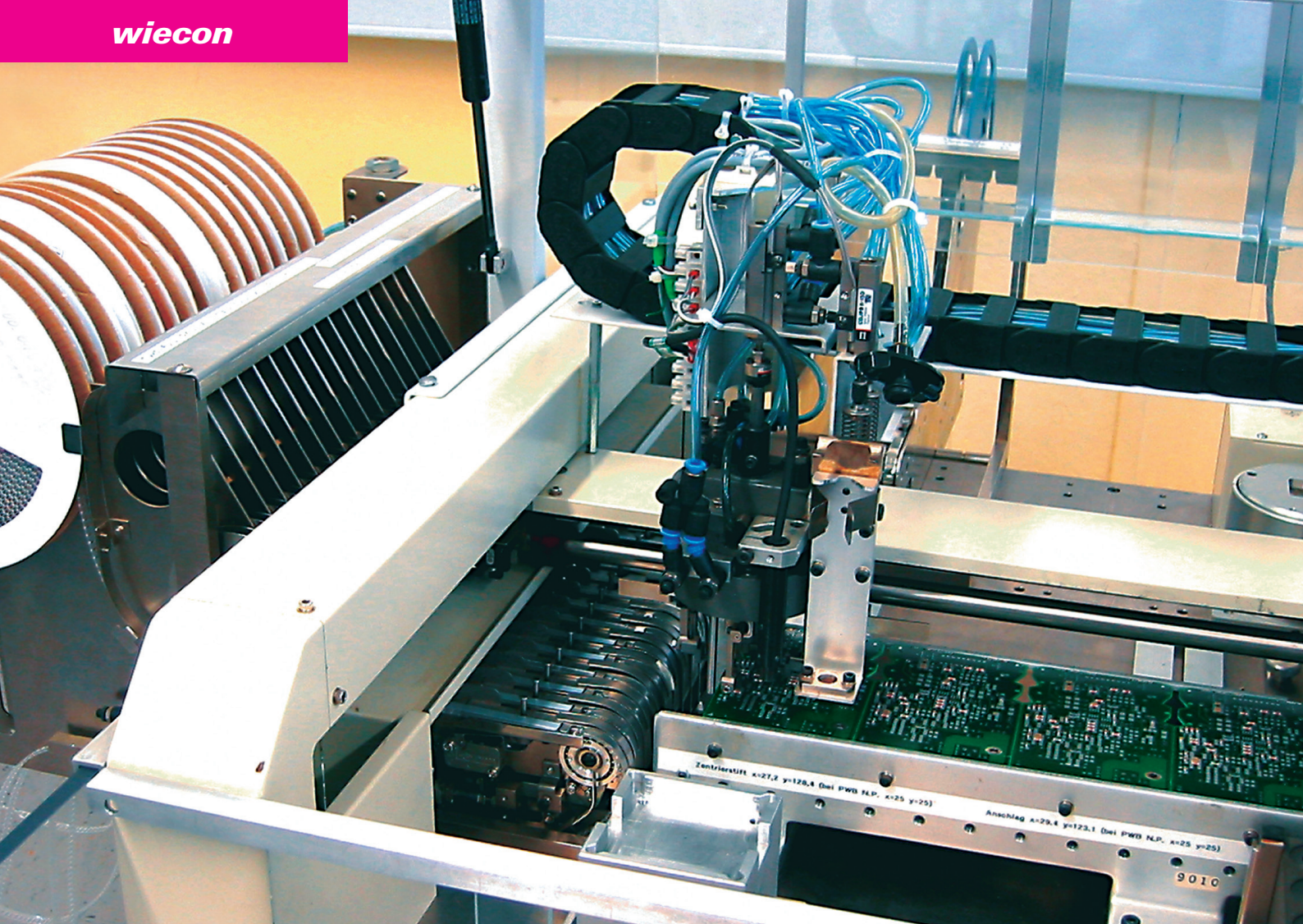
Wieland Holding is based in Bamberg, Bavaria, and comprises two independently acting subsidiaries: Wieland Electric and STOCKO Contact.

Groundbreaking innovations made Wieland Electric one of the leading suppliers of electrical connection technology. This company, founded in Bamberg in 1910, is the largest subsidiary of Wieland Holding.

STOCKO Contact is based in Wuppertal and joined the Wieland Group in 2001. Stocko has also more than 100 years of company history to its credit and is one of the largest manufacturers of connector systems and crimp contacts.

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Perfect Performance.

Today PC boards are our daily companions. Although they often go unnoticed, they are still present in a wide range of devices, simplifying our everyday lives. The broad variety of applications in which they are used requires many different components in a myriad of designs. PC boards provide the connection between the various components located on

them. Components are fixed in their positions and can be soldered to the PC board in a variety of procedures during manufacture. Keeping manufacturing processes profitable is a continuous challenge.



Through Hole Reflow (THR)



Packaging

The ability to utilize automated pick and place equipment to populate the PC board with SMT/THR components offers one of the greatest savings potentials in comparison to wave soldering. That is why it is important to select packaging suitable to the feeder method and optimized for the performance of the automatic pick & place equipment. Our components are therefore available in a variety of standard packaging.

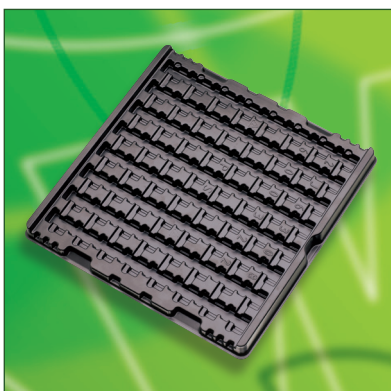
Box

Sampling and prototyping
Pre-production pilot runs



Tape on Reel

Serial production
Limited variation



Tray

Serial production
Increased variation
> 12 poles



Tube

Serial production
Unconventionally shaped products (OSD)





Systems feature

- PCB terminals with rising cage clamp connection
- PCB terminal with spring clamp connection
- PCB terminal with top connection
- terminal can be soldered directly onto PCB
- low mechanical loading of the solder area
- straight forward interconnection
- conductors can be individually sized
- various numbers of pole combinations
- connection of solid core and finely stranded conductors
- metric and imperial pitch sizes



Marking

- ink jet printing directly onto the terminal using indelible ink
- individual terminals can be marked using snap-on marking tags
- terminals with or without marking tag carrier are available
- special marking is possible on request

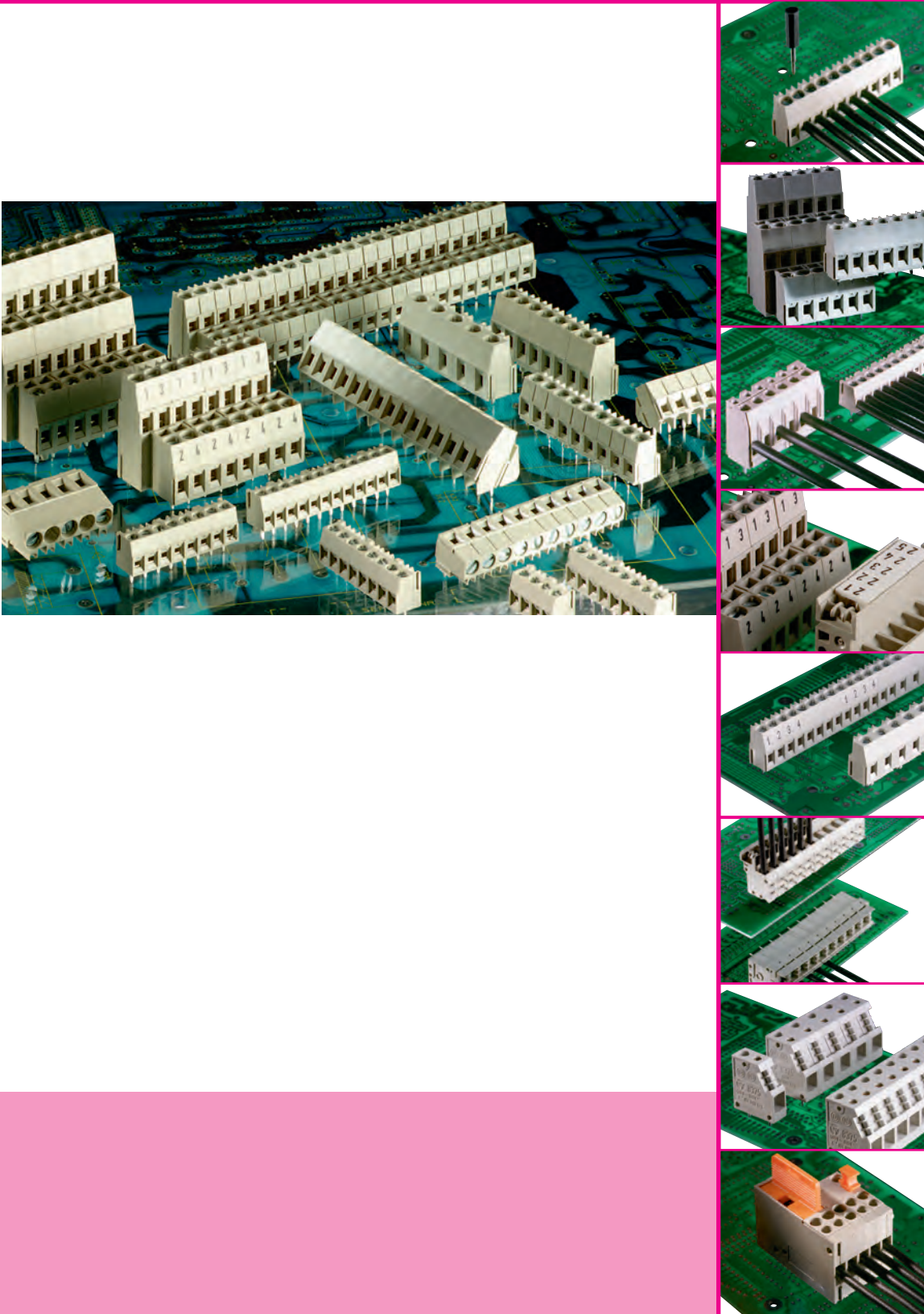


Type range

- 2 – 24 poles
- connection of conductors horizontal and vertical in relation to the PCB
- conductors can be connected at a 45° or 35°
- metric: 3.5/5/7.5/10 mm
- imperial: 3.81/5.08/6.35/7.62/10.16/20.32 mm
- terminals snap together individually
- multipole blocks
- with or without insulating plate
- with or without testing plug connection
- with or without fixing cams
- secure connection
- the pitch can be expanded by means of an intermediate plate
- cover plate available
- double solder pins for stability



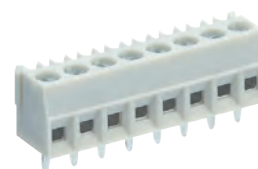
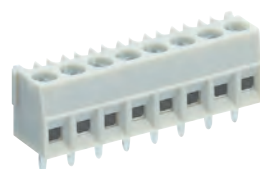
Fixed PCB Terminals



PCB terminal series 8593 / 8893, rising cage clamp system

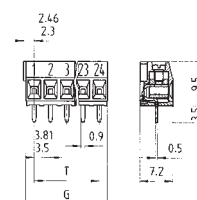
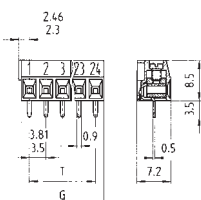
pitch 3.50 / 3.81 mm

IEC	160 V 2.5kV cat.3 250 V 2.5kV cat.2 690 V 2.5kV cat.1	10 A	0.14 - 1.0 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	10 A	30 - 16 AWG
CSA	300 V	10 A	30 - 16 AWG
Solder Pin	0.5 x 0.9 mm		
Drill Hole	1.1 mm		
Wire Strip Length	5.0 mm		
Screw Size	M2		



See Technical Data section for screw material options

Approvals:



series 8593 pitch 3.50 mm

Box Qty	G	T	Pole
100		3.5	2
100		7.0	3
50		10.5	4
50		14.0	5
50		17.5	6
50		21.0	7
50		24.5	8
50		28.0	9
50		31.5	10
50		35.0	11
50		38.5	12
50		42.0	13
50		45.5	14
50		49.0	15
50		52.5	16

unmarked
without insulating plate

Part Number	Part Number
25.195.0253.0	25.194.0253.0
25.195.0353.0	25.194.0353.0
25.195.0453.0	25.194.0453.0
25.195.0553.0	25.194.0553.0
25.195.0653.0	25.194.0653.0
25.195.0753.0	25.194.0753.0
25.195.0853.0	25.194.0853.0
25.195.0953.0	25.194.0953.0
25.195.1053.0	25.194.1053.0
25.195.1153.0	25.194.1153.0
25.195.1253.0	25.194.1253.0
25.195.1353.0	25.194.1353.0
25.195.1453.0	25.194.1453.0
25.195.1553.0	25.194.1553.0
25.195.1653.0	25.194.1653.0

marked
without insulating plateunmarked
with insulating plate
with locating cams

Part Number	Part Number
25.195.9253.0	25.194.9253.0
25.195.9353.0	25.194.9353.0

marked
with insulating plate
with locating cams

series 8893 pitch 3.81 mm

Box Qty	G	T	Pole
100		3.81	2
100		7.62	3
50		11.43	4
50		15.24	5
50		19.05	6
50		22.86	7
50		26.67	8
50		30.48	9
50		34.29	10
50		38.10	11
50		41.91	12
50		45.72	13
50		49.53	14
50		53.34	15
50		57.15	16

unmarked
without insulating plate

Part Number	Part Number
25.197.0253.0	25.196.0253.0
25.197.0353.0	25.196.0353.0
25.197.0453.0	25.196.0453.0
25.197.0553.0	25.196.0553.0
25.197.0653.0	25.196.0653.0
25.197.0753.0	25.196.0753.0
25.197.0853.0	25.196.0853.0
25.197.0953.0	25.196.0953.0
25.197.1053.0	25.196.1053.0
25.197.1153.0	25.196.1153.0
25.197.1253.0	25.196.1253.0
25.197.1353.0	25.196.1353.0
25.197.1453.0	25.196.1453.0
25.197.1553.0	25.196.1553.0
25.197.1653.0	25.196.1653.0

marked
without insulating plateunmarked
with insulating plate
with locating cams

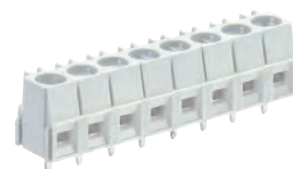
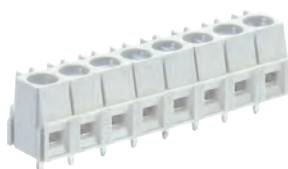
Part Number	Part Number
25.197.9253.0	25.196.9253.0
25.197.9353.0	25.196.9353.0

marked
with insulating plate
with locating cams

PCB terminal series 8192 / 8292, rising cage clamp system

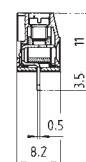
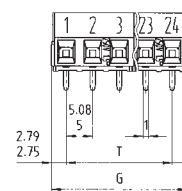
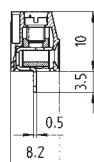
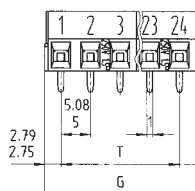
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	10 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A (Field) 16 A (Factory)	30 - 14 AWG
CSA	300 V	15 A	30 - 14 AWG
Solder Pin	0.5 x 1.0 mm		
Drill Hole	1.2 mm		
Wire Strip Length	6.0 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8192 pitch 5.00 mm

Box Qty	G	T	Pole
100	10.55	5	2
100	15.55	10	3
50	20.55	15	4
50	25.55	20	5
50	30.55	25	6
50	35.55	30	7
50	40.55	35	8
50	45.55	40	9
50	50.55	45	10
50	55.55	50	11
50	60.55	55	12
50	65.55	60	13
50	70.55	65	14
50	75.55	70	15
50	80.55	75	16

unmarked
without insulating plate

Part Number
25.191.0253.0
25.191.0353.0
25.191.0453.0
25.191.0553.0
25.191.0653.0
25.191.0753.0
25.191.0853.0
25.191.0953.0
25.191.1053.0
25.191.1153.0
25.191.1253.0
25.191.1353.0
25.191.1453.0
25.191.1553.0
25.191.1653.0

marked
without insulating plate

Part Number
25.190.0253.0
25.190.0353.0
25.190.0453.0
25.190.0553.0
25.190.0653.0
25.190.0753.0
25.190.0853.0
25.190.0953.0
25.190.1053.0
25.190.1153.0
25.190.1253.0
25.190.1353.0
25.190.1453.0
25.190.1553.0
25.190.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.191.9253.0
25.191.9353.0

marked
with insulating plate
with locating cams

Part Number
25.190.9253.0
25.190.9353.0

series 8292 pitch 5.08 mm

Box Qty	G	T	Pole
100	10.71	5.08	2
100	15.79	10.16	3
50	20.87	15.24	4
50	25.95	20.32	5
50	31.03	25.40	6
50	36.11	30.48	7
50	41.19	35.56	8
50	46.27	40.64	9
50	51.35	45.72	10
50	56.43	50.80	11
50	61.51	55.88	12
50	66.59	60.96	13
50	71.67	66.04	14
50	76.75	71.12	15
50	81.83	76.20	16

unmarked
without insulating plate

Part Number
25.193.0253.0
25.193.0353.0
25.193.0453.0
25.193.0553.0
25.193.0653.0
25.193.0753.0
25.193.0853.0
25.193.0953.0
25.193.1053.0
25.193.1153.0
25.193.1253.0
25.193.1353.0
25.193.1453.0
25.193.1553.0
25.193.1653.0

marked
without insulating plate

Part Number
25.192.0253.0
25.192.0353.0
25.192.0453.0
25.192.0553.0
25.192.0653.0
25.192.0753.0
25.192.0853.0
25.192.0953.0
25.192.1053.0
25.192.1153.0
25.192.1253.0
25.192.1353.0
25.192.1453.0
25.192.1553.0
25.192.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.193.9253.0
25.193.9353.0

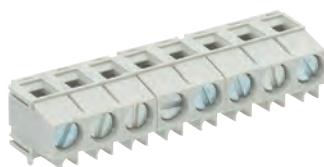
marked
with insulating plate
with locating cams

Part Number
25.192.9253.0
25.192.9353.0

PCB terminal series 8192 / 8292, rising cage clamp system

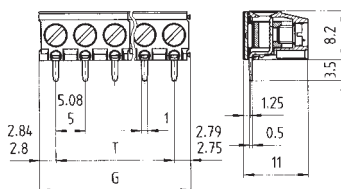
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	10 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A (Field) 16 A (Factory)	30 - 14 AWG
CSA	300 V	15 A	30 - 14 AWG
Solder Pin	0.5 x 1.0 mm		
Drill Hole	1.2 mm		
Wire Strip Length	6.0 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8192 ZW pitch 5.00 mm

unmarked
without insulating plate

Box Qty	G	T	Pole
100	10.55	5	2
100	15.55	10	3
50	20.55	15	4
50	25.55	20	5
50	30.55	25	6
50	35.55	30	7
50	40.55	35	8
50	45.55	40	9
50	50.55	45	10
50	55.55	50	11
50	60.55	55	12
50	65.55	60	13
50	70.55	65	14
50	75.55	70	15
50	80.55	75	16

Part Number	Part Number	Part Number	Part Number
25.191.6253.0			
25.191.6353.0			
25.191.6453.0			
25.191.6553.0			
25.191.6653.0			
25.191.6753.0			
25.191.6853.0			
25.191.6953.0			
25.191.7053.0			
25.191.7153.0			
25.191.7253.0			
25.191.7353.0			
25.191.7453.0			
25.191.7553.0			
25.191.7653.0			

series 8292 ZW pitch 5.08 mm

unmarked
without insulating plate

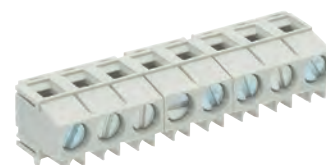
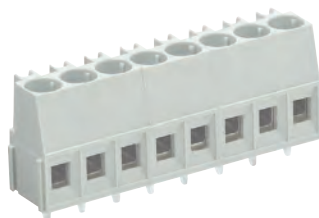
Box Qty	G	T	Pole
100	10.71	5.08	2
100	15.79	10.16	3
50	20.87	15.24	4
50	25.95	20.32	5
50	31.03	25.40	6
50	36.11	30.48	7
50	41.19	35.56	8
50	46.27	40.64	9
50	51.35	45.72	10
50	56.43	50.80	11
50	61.51	55.88	12
50	66.59	60.96	13
50	71.67	66.04	14
50	76.75	71.12	15
50	81.83	76.20	16

Part Number	Part Number	Part Number	Part Number
25.193.6253.0			
25.193.6353.0			
25.193.6453.0			
25.193.6553.0			
25.193.6653.0			
25.193.6753.0			
25.193.6853.0			
25.193.6953.0			
25.193.7053.0			
25.193.7153.0			
25.193.7253.0			
25.193.7353.0			
25.193.7453.0			
25.193.7553.0			
25.193.7653.0			

PCB screw terminal series 8191 / 8291, rising cage clamp system

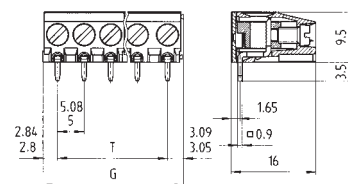
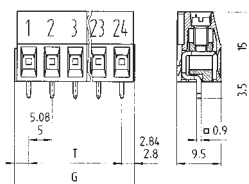
pitch 5.00/5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 30 A (Factory)	22 -12 AWG
CSA	300 V	25 A	22 -12 AWG
Solder Pin	0.9 x 0.9 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6.5 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8191 / ZW pitch 5.00 mm

Box Qty	G	T	Pole
100	10.85	5	2
100	15.85	10	3
50	20.85	15	4
50	25.85	20	5
50	30.85	25	6
50	35.85	30	7
50	40.85	35	8
50	45.85	40	9
50	50.85	45	10
50	55.85	50	11
50	60.85	55	12
50	65.85	60	13
50	70.85	65	14
50	75.85	70	15
50	80.85	75	16

unmarked
without insulating plate
without locating cams

Part Number
25.161.0253.0
25.161.0353.0
25.161.0453.0
25.161.0553.0
25.161.0653.0
25.161.0753.0
25.161.0853.0
25.161.0953.0
25.161.1053.0
25.161.1153.0
25.161.1253.0
25.161.1353.0
25.161.1453.0
25.161.1553.0
25.161.1653.0

marked
without insulating plate
without locating cams

Part Number
25.160.0253.0
25.160.0353.0
25.160.0453.0
25.160.0553.0
25.160.0653.0
25.160.0753.0
25.160.0853.0
25.160.0953.0
25.160.1053.0
25.160.1153.0
25.160.1253.0
25.160.1353.0
25.160.1453.0
25.160.1553.0
25.160.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.161.6253.0
25.161.6353.0
25.161.6453.0
25.161.6553.0
25.161.6653.0
25.161.6753.0
25.161.6853.0
25.161.6953.0
25.161.7053.0
25.161.7153.0
25.161.7253.0
25.161.7353.0
25.161.7453.0
25.161.7553.0
25.161.7653.0

marked
with insulating plate
with locating cams

Part Number
25.160.6253.0
25.160.6353.0
25.160.6453.0
25.160.6553.0
25.160.6653.0
25.160.6753.0
25.160.6853.0
25.160.6953.0
25.160.7053.0
25.160.7153.0
25.160.7253.0
25.160.7353.0
25.160.7453.0
25.160.7553.0
25.160.7653.0

series 8291 / ZW pitch 5.08 mm

Box Qty	G	T	Pole
100	11.01	5.08	2
100	16.09	10.16	3
50	21.17	15.24	4
50	26.25	20.32	5
50	31.33	25.40	6
50	36.41	30.48	7
50	41.49	35.56	8
50	46.57	40.64	9
50	51.65	45.72	10
50	56.73	50.80	11
50	61.81	55.88	12
50	66.89	60.96	13
50	71.97	66.04	14
50	77.05	71.12	15
50	82.13	76.20	16

unmarked
without insulating plate
without locating cams

Part Number
25.163.0253.0
25.163.0353.0
25.163.0453.0
25.163.0553.0
25.163.0653.0
25.163.0753.0
25.163.0853.0
25.163.0953.0
25.163.1053.0
25.163.1153.0
25.163.1253.0
25.163.1353.0
25.163.1453.0
25.163.1553.0
25.163.1653.0

marked
without insulating plate
without locating cams

Part Number
25.162.0253.0
25.162.0353.0
25.162.0453.0
25.162.0553.0
25.162.0653.0
25.162.0753.0
25.162.0853.0
25.162.0953.0
25.162.1053.0
25.162.1153.0
25.162.1253.0
25.162.1353.0
25.162.1453.0
25.162.1553.0
25.162.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.163.6253.0
25.163.6353.0
25.163.6453.0
25.163.6553.0
25.163.6653.0
25.163.6753.0
25.163.6853.0
25.163.6953.0
25.163.7053.0
25.163.7153.0
25.163.7253.0
25.163.7353.0
25.163.7453.0
25.163.7553.0
25.163.7653.0

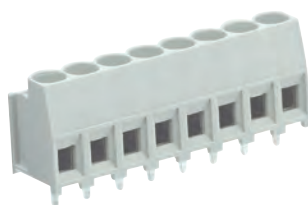
marked
with insulating plate
with locating cams

Part Number
25.162.6253.0
25.162.6353.0
25.162.6453.0
25.162.6553.0
25.162.6653.0
25.162.6753.0
25.162.6853.0
25.162.6953.0
25.162.7053.0
25.162.7153.0
25.162.7253.0
25.162.7353.0
25.162.7453.0
25.162.7553.0
25.162.7653.0

PCB terminal series 8191 / 8291, rising cage clamp system

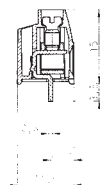
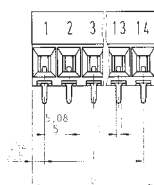
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 30 A (Factory)	22 - 12 AWG
CSA	300 V	25 A	22 - 12 AWG
Solder Pin	1.0 x 0.8 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6.5 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8191 R pitch 5.00 mm

Box Qty	G	T	Pole
500	10.85	5	2
500	15.85	10	3
250	20.85	15	4
250	25.85	20	5
200	30.85	25	6
200	35.85	30	7
100	40.85	35	8
100	45.85	40	9
100	50.85	45	10
50	55.85	50	11
50	60.85	55	12
50	66.85	60	13
50	70.85	65	14

unmarked
with insulating platemarked
with insulating plate

Part Number	Part Number	Part Number	Part Number
25.155.0253.0	25.155.2253.0		
25.155.0353.0	25.155.2353.0		
25.155.0453.0	25.155.2453.0		
25.155.0553.0	25.155.2553.0		
25.155.0653.0	25.155.2653.0		
25.155.0753.0	25.155.2753.0		
25.155.0853.0	25.155.2853.0		
25.155.0953.0	25.155.2953.0		
25.155.1053.0	25.155.3053.0		
25.155.1153.0	25.155.3153.0		
25.155.1253.0	25.155.3253.0		
25.155.1353.0	25.155.3353.0		
25.155.1453.0	25.155.3453.0		

series 8291 R pitch 5.08 mm

Box Qty	G	T	Pole
500	11.01	5.08	2
500	16.09	10.16	3
250	21.17	15.24	4
250	26.25	20.32	5
200	31.33	25.40	6
200	36.41	30.48	7
100	41.49	35.56	8
100	46.57	40.64	9
100	51.56	45.72	10
50	56.73	50.80	11
50	61.81	55.88	12
50	66.89	60.96	13
50	71.97	66.04	14

unmarked
with insulating platemarked
with insulating plate

Part Number	Part Number	Part Number	Part Number
25.156.0253.0	25.156.2253.0		
25.156.0353.0	25.156.2353.0		
25.156.0453.0	25.156.2453.0		
25.156.0553.0	25.156.2553.0		
25.156.0653.0	25.156.2653.0		
25.156.0753.0	25.156.2753.0		
25.156.0853.0	25.156.2853.0		
25.156.0953.0	25.156.2953.0		
25.156.1053.0	25.156.3053.0		
25.156.1153.0	25.156.3153.0		
25.156.1253.0	25.156.3253.0		
25.156.1353.0	25.156.3353.0		
25.156.1453.0	25.156.3453.0		

PCB terminal series 8190, rising cage clamp system

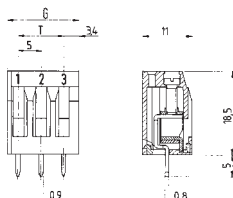
pitch 5.00 / 10.00 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	10 A	22 - 14 AWG
Solder Pin	0.8 x 0.9 mm		
Drill Hole	1.2 mm		
Wire Strip Length	6.0 mm		
Screw Size	M2.5		



See Technical Data section for screw material options

Approvals:



series 8190 pitch 5.00 mm

Box Qty	G	T	Pole
100	10.86	5	2
100	15.86	10	3
50	20.86	15	4
50	25.86	20	5
50	30.86	25	6
50	35.86	30	7
50	40.86	35	8
50	45.86	40	9
50	50.86	45	10
50	55.86	50	11
50	60.86	55	12
50	65.86	60	13
50	70.86	65	14
50	75.86	70	15
50	80.86	75	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
25.131.0253.0	25.130.0253.0		
25.131.0353.0	25.130.0353.0		
25.131.0453.0	25.130.0453.0		
25.131.0553.0	25.130.0553.0		
25.131.0653.0	25.130.0653.0		
25.131.0753.0	25.130.0753.0		
25.131.0853.0	25.130.0853.0		
25.131.0953.0	25.130.0953.0		
25.131.1053.0	25.130.1053.0		
25.131.1153.0	25.130.1153.0		
25.131.1253.0	25.130.1253.0		
25.131.1353.0	25.130.1353.0		
25.131.1453.0	25.130.1453.0		
25.131.1553.0	25.130.1553.0		
25.131.1653.0	25.130.1653.0		

series 8190 pitch 10.00 mm

Box Qty	G	T	Pole
50	20.86	10	2
50	30.86	20	3
50	40.86	30	4
50	50.86	40	5
50	60.86	50	6
50	70.86	60	7
50	80.86	70	8
50	90.86	80	9
50	100.86	90	10
50	110.86	100	11
50	120.86	110	12

unmarked

marked

unmarked
with insulating plate
with locating cams

marked
with insulating plate
with locating cams

Part Number	Part Number	Part Number	Part Number
25.133.0253.0	25.132.0253.0		
25.133.0353.0	25.132.0353.0		
25.133.0453.0	25.132.0453.0		
25.133.0553.0	25.132.0553.0		
25.133.0653.0	25.132.0653.0		
25.133.0753.0	25.132.0753.0		
25.133.0853.0	25.132.0853.0		
25.133.0953.0	25.132.0953.0		
25.133.1053.0	25.132.1053.0		
25.133.1153.0	25.132.1153.0		
25.133.1253.0	25.132.1253.0		

PCB terminal series 8158, 8258 spring clamp system

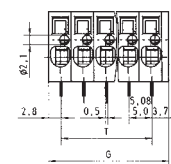
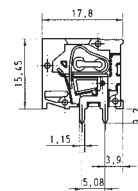
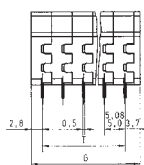
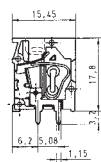
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL			22 - 12 AWG 30 - 12 AWG
CSA			22 - 12 AWG
Solder Pin			0.5 x 1.15 mm
Drill Hole			1.3 mm
Wire Strip Length			9.0 mm



See Technical Data section for screw material options

Approvals:



series 8158 TOP V/H pitch 5.00 mm

Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8
50			9
50			10
50			11
50			12
50			13
50			14
50			15
50			16

Part Number	Part Number	Part Number	Part Number
25.780.0253.0		25.790.0253.0	
25.780.0353.0		25.790.0353.0	
25.780.0453.0		25.790.0453.0	
25.780.0553.0		25.790.0553.0	
25.780.0653.0		25.790.0653.0	
25.780.0753.0		25.790.0753.0	
25.780.0853.0		25.790.0853.0	
25.780.0953.0		25.790.0953.0	
25.780.1053.0		25.790.1053.0	
25.780.1153.0		25.790.1153.0	
25.780.1253.0		25.790.1253.0	
25.780.1353.0		25.790.1353.0	
25.780.1453.0		25.790.1453.0	
25.780.1553.0		25.790.1553.0	
25.780.1653.0		25.790.1653.0	

series 8258 TOP V/H pitch 5.08 mm

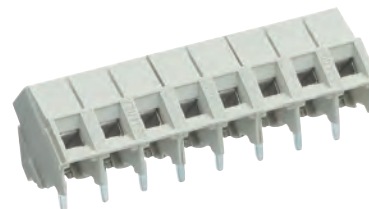
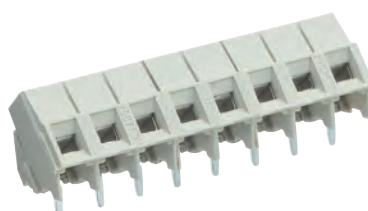
Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8
50			9
50			10
50			11
50			12
50			13
50			14
50			15
50			16

Part Number	Part Number	Part Number	Part Number
25.781.0253.0		25.791.0253.0	
25.781.0353.0		25.791.0353.0	
25.781.0453.0		25.791.0453.0	
25.781.0553.0		25.791.0553.0	
25.781.0653.0		25.791.0653.0	
25.781.0753.0		25.791.0753.0	
25.781.0853.0		25.791.0853.0	
25.781.0953.0		25.791.0953.0	
25.781.1053.0		25.791.1053.0	
25.781.1153.0		25.791.1153.0	
25.781.1253.0		25.791.1253.0	
25.781.1353.0		25.791.1353.0	
25.781.1453.0		25.791.1453.0	
25.781.1553.0		25.791.1553.0	
25.781.1653.0		25.791.1653.0	

PCB terminal series 8134 / 8234, rising cage clamp system

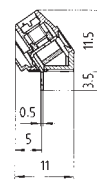
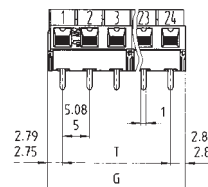
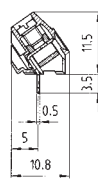
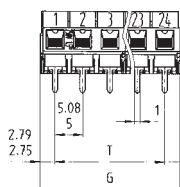
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	10 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A (Field) 16 A (Factory)	30 - 14 AWG
CSA	300 V	15 A	30 - 14 AWG
Solder Pin	0.5 x 1.0 mm		
Drill Hole	1.2 mm		
Wire Strip Length	6.0 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8134 pitch 5.00 mm

Box Qty	G	T	Pole
100	10.55	5	2
100	15.55	10	3
50	20.55	15	4
50	25.55	20	5
50	30.55	25	6
50	35.55	30	7
50	40.55	35	8
50	45.55	40	9
50	50.55	45	10
50	55.55	50	11
50	60.55	55	12
50	65.55	60	13
50	70.55	65	14
50	75.55	70	15
50	80.55	75	16

unmarked
without insulating plate

Part Number
25.501.0253.0
25.501.0353.0
25.501.0453.0
25.501.0553.0
25.501.0653.0
25.501.0753.0
25.501.0853.0
25.501.0953.0
25.501.1053.0
25.501.1153.0
25.501.1253.0
25.501.1353.0
25.501.1453.0
25.501.1553.0
25.501.1653.0

marked
without insulating plate

Part Number
25.500.0253.0
25.500.0353.0
25.500.0453.0
25.500.0553.0
25.500.0653.0
25.500.0753.0
25.500.0853.0
25.500.0953.0
25.500.1053.0
25.500.1153.0
25.500.1253.0
25.500.1353.0
25.500.1453.0
25.500.1553.0
25.500.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.501.6253.0
25.501.6353.0

marked
with locating cams

Part Number
25.500.6253.0
25.500.6353.0

series 8234 pitch 5.08 mm

Box Qty	G	T	Pole
100	10.71	5.08	2
100	15.79	10.16	3
50	20.87	15.24	4
50	25.95	20.32	5
50	31.03	25.40	6
50	36.11	30.48	7
50	41.19	35.56	8
50	46.27	40.64	9
50	51.35	45.72	10
50	56.42	50.80	11
50	61.51	55.88	12
50	66.59	60.96	13
50	71.67	66.04	14
50	76.75	71.12	15
50	81.83	76.20	16

unmarked
without insulating plate

Part Number
25.503.0253.0
25.503.0353.0
25.503.0453.0
25.503.0553.0
25.503.0653.0
25.503.0753.0
25.503.0853.0
25.503.0953.0
25.503.1053.0
25.503.1153.0
25.503.1253.0
25.503.1353.0
25.503.1453.0
25.503.1553.0
25.503.1653.0

marked
without insulating plate

Part Number
25.502.0253.0
25.502.0353.0
25.502.0453.0
25.502.0553.0
25.502.0653.0
25.502.0753.0
25.502.0853.0
25.502.0953.0
25.502.1053.0
25.502.1153.0
25.502.1253.0
25.502.1353.0
25.502.1453.0
25.502.1553.0
25.502.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.503.6253.0
25.503.6353.0

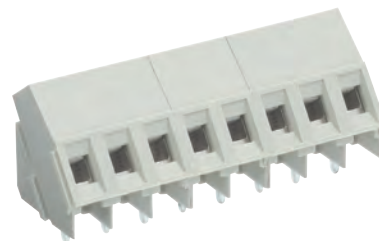
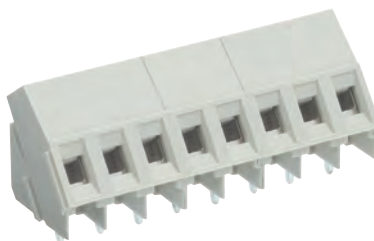
marked
with locating cams

Part Number
25.502.6253.0
25.502.6353.0

PCB terminal series 8135 / 8235, rising cage clamp system

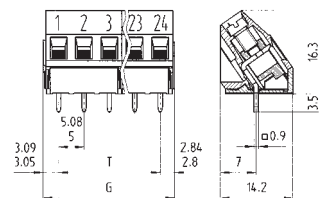
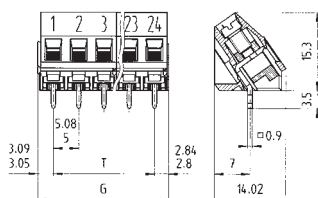
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 30 A (Factory)	22 - 12 AWG
CSA	300 V	25 A	22 - 12 AWG
Solder Pin	0.9 x 0.9 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6.5 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8135 pitch 5.00 mm

Box Qty	G	T	Pole
100	10.85	5	2
100	15.85	10	3
50	20.85	15	4
50	25.85	20	5
50	30.85	25	6
50	35.85	30	7
50	40.85	35	8
50	45.85	40	9
50	50.85	45	10
50	55.85	50	11
50	60.85	55	12
50	65.85	60	13
50	70.85	65	14
50	75.85	70	15
50	80.85	75	16

unmarked
without insulating plate

Part Number
25.521.0253.0
25.521.0353.0
25.521.0453.0
25.521.0553.0
25.521.0653.0
25.521.0753.0
25.521.0853.0
25.521.0953.0
25.521.1053.0
25.521.1153.0
25.521.1253.0
25.521.1353.0
25.521.1453.0
25.521.1553.0
25.521.1653.0

marked
without insulating plate

Part Number
25.520.0253.0
25.520.0353.0
25.520.0453.0
25.520.0553.0
25.520.0653.0
25.520.0753.0
25.520.0853.0
25.520.0953.0
25.520.1053.0
25.520.1153.0
25.520.1253.0
25.520.1353.0
25.520.1453.0
25.520.1553.0
25.520.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.521.6253.0
25.521.6353.0

marked
with insulating plate
with locating cams

Part Number
25.520.6253.0
25.520.6353.0

series 8235 pitch 5.08 mm

Box Qty	G	T	Pole
100	11.01	5.08	2
100	16.09	10.16	3
50	21.17	15.24	4
50	26.25	20.32	5
50	31.33	25.40	6
50	36.41	30.48	7
50	41.49	35.56	8
50	46.57	40.64	9
50	51.65	45.72	10
50	56.73	50.80	11
50	61.81	55.88	12
50	66.89	60.96	13
50	71.97	66.04	14
50	77.05	71.12	15
50	82.13	76.20	16

unmarked
without insulating plate

Part Number
25.523.0253.0
25.523.0353.0
25.523.0453.0
25.523.0553.0
25.523.0653.0
25.523.0753.0
25.523.0853.0
25.523.0953.0
25.523.1053.0
25.523.1153.0
25.523.1253.0
25.523.1353.0
25.523.1453.0
25.523.1553.0
25.523.1653.0

marked
without insulating plate

Part Number
25.522.0253.0
25.522.0353.0
25.522.0453.0
25.522.0553.0
25.522.0653.0
25.522.0753.0
25.522.0853.0
25.522.0953.0
25.522.1053.0
25.522.1153.0
25.522.1253.0
25.522.1353.0
25.522.1453.0
25.522.1553.0
25.522.1653.0

unmarked
with insulating plate
with locating cams

Part Number
25.523.6253.0
25.523.6353.0

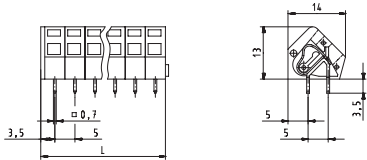
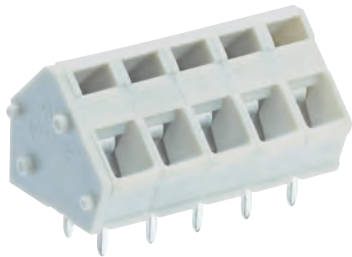
marked
with insulating plate
with locating cams

Part Number
25.522.6253.0
25.522.6353.0

PCB screw terminal
series 8191, spring clamp system

pitch 5.00

IEC	250 V 4kV cat.3		0.08 - 2.5 mm ² (Stranded) 0.08 - 2.5 mm ² (Solid)
UL	300 V	16 A	28 -12 AWG
CSA	300 V	16 A	28 -18 AWG
Solder Pin	0.7 x 0.7 mm		
Drill Hole	1.0 mm		
Wire Strip Length	6.0 mm		



Approvals:



series 8191 FK pitch 5.00 mm				unmarked			
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100	10.55	5	2	27.007.3253.0			
100	15.55	10	3	27.007.3353.0			
50	20.55	15	4	27.007.3453.0			
50	25.55	20	5	27.007.3553.0			
50	30.55	25	6	27.007.3653.0			
50	35.55	30	7	27.007.3753.0			
50	40.55	35	8	27.007.3853.0			
50	45.55	40	9	27.007.3953.0			
50	50.55	45	10	27.007.4053.0			
50	55.55	50	11	27.007.4153.0			
50	60.55	55	12	27.007.4253.0			
50	65.55	60	13	27.007.4353.0			
50	70.55	65	14	27.007.4453.0			
50	75.55	70	15	27.007.4553.0			
50	80.55	75	16	27.007.4653.0			

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

PCB terminal series 8185 / 8285, TOP connection system

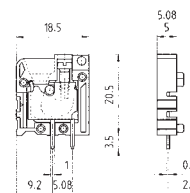
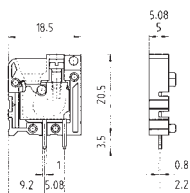
pitch 5.00/5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 25 A (Factory)	22 - 12 AWG 30 - 12 AWG
CSA	300 V	20 A	22 - 12 AWG
Solder Pin	0.8 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	9.0 mm		
Screw Size	M2.5		



See Technical Data section for screw material options

Approvals:



series 8185 TOP V pitch 5.00 mm

Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8
50			9
50			10
50			11
50			12
50			13
50			14
50			15
50			16

		Individual poles connected in series (1 pole)	Individual poles connected in series (end plate)
Part Number	Part Number	Part Number	Part Number
25.741.0253.0		25.741.0053.0	07.300.4753.0
25.741.0353.0			
25.741.0453.0			
25.741.0553.0			
25.741.0653.0			
25.741.0753.0			
25.741.0853.0			
25.741.0953.0			
25.741.1053.0			
25.741.1153.0			
25.741.1253.0			
25.741.1353.0			
25.741.1453.0			
25.741.1553.0			
25.741.1653.0			

series 8285 TOP V pitch 5.08 mm

Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8
50			9
50			10
50			11
50			12
50			13
50			14
50			15
50			16

		Individual poles connected in series (1 pole)	Individual poles connected in series (end plate)
Part Number	Part Number	Part Number	Part Number
25.751.0253.0		25.751.0053.0	07.300.4753.0
25.751.0353.0			
25.751.0453.0			
25.751.0553.0			
25.751.0653.0			
25.751.0753.0			
25.751.0853.0			
25.751.0953.0			
25.751.1053.0			
25.751.1153.0			
25.751.1253.0			
25.751.1353.0			
25.751.1453.0			
25.751.1553.0			
25.751.1653.0			

PCB terminal series 8185 / 8285, TOP connection system

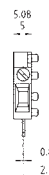
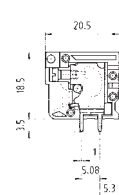
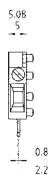
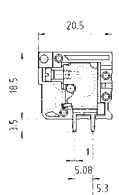
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 25 A (Factory)	22 - 12 AWG 30 - 12 AWG
CSA	300 V	20 A	22 - 12 AWG
Solder Pin	0.8 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	9.0 mm		
Screw Size	M2.5		



See Technical Data section for screw material options

Approvals:



series 8185 TOP H pitch 5.00 mm

Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8
50			9
50			10
50			11
50			12
50			13
50			14
50			15
50			16

		Individual poles connected in series (1 pole)	Individual poles connected in series (end plate)
Part Number	Part Number	Part Number	Part Number
25.741.3253.0		25.741.0153.0	07.300.4753.0
25.741.3353.0			
25.741.3453.0			
25.741.3553.0			
25.741.3653.0			
25.741.3753.0			
25.741.3853.0			
25.741.3953.0			
25.741.4053.0			
25.741.4153.0			
25.741.4253.0			
25.741.4353.0			
25.741.4453.0			
25.741.4553.0			
25.741.4653.0			

series 8285 TOP H pitch 5.08 mm

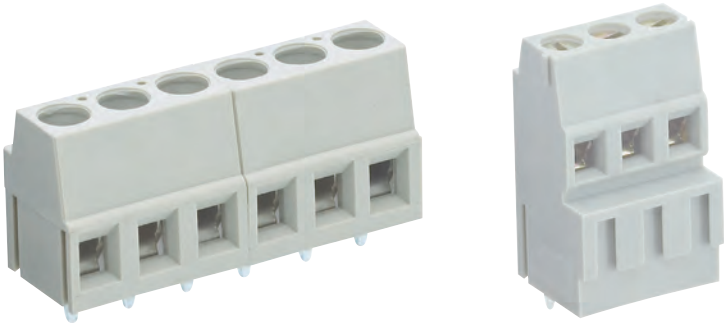
Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8
50			9
50			10
50			11
50			12
50			13
50			14
50			15
50			16

		Individual poles connected in series (1 pole)	Individual poles connected in series (end plate)
Part Number	Part Number	Part Number	Part Number
25.751.3253.0		25.751.0153.0	07.300.4753.0
25.751.3353.0			
25.751.3453.0			
25.751.3553.0			
25.751.3653.0			
25.751.3753.0			
25.751.3853.0			
25.751.3953.0			
25.751.4053.0			
25.751.4153.0			
25.751.4253.0			
25.751.4353.0			
25.751.4453.0			
25.751.4553.0			
25.751.4653.0			

PCB terminal
series 8292, rising cage clamp system

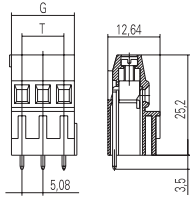
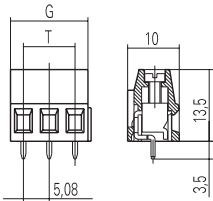
pitch 5.08 mm

IEC	250 V 4kV cat.3	15 A	0.5 - 1.5 mm ² (Stranded)
	250 V 4kV cat.2		0.5 - 1.5 mm ² (Solid)
	500 V 4kV cat.1		
UL	300 V	10 A	24 - 14 AWG
CSA	300 V	10 A	24 - 14 AWG
Solder Pin			0.8 x 1.0 mm
Drill Hole			1.3 mm
Wire Strip Length			6.0 mm
Screw Size			M2.5



See Technical Data section for screw material options

Approvals:



27.000.2253.01W

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8292 H / DH pitch 5.08 mm				unmarked		unmarked	
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100	10.16	5.08	2	27.000.0253.0		27.000.2253.0	
100	15.24	10.16	3	27.000.0353.0		27.000.2353.0	

PCB terminal series 8292, rising cage clamp system

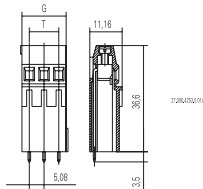
pitch 5.08 mm

IEC	250 V 4kV cat.3	15 A	0.5 - 1.5 mm ²
	250 V 4kV cat.2		(Stranded)
	500 V 4kV cat.1		0.5 - 1.5 mm ² (Solid)
UL	300 V	10 A	24 - 14 AWG
CSA	300 V	10 A	24 - 14 AWG
Solder Pin			0.8 x 1.0 mm
Drill Hole			1.3 mm
Wire Strip Length			6.0 mm
Screw Size			M2.5



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8292 EH pitch 5.08 mm

unmarked

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100	10.16	5.08	2	27.000.4253.0			
100	15.24	10.16	3	27.000.4353.0			

PCB terminal series 8192 / 8292, rising cage clamp system

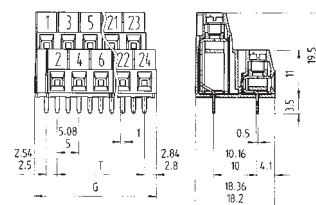
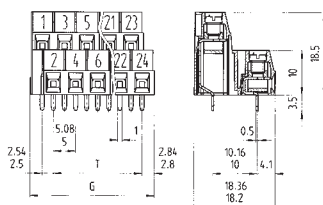
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	10 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A (Field) 16 A (Factory)	30 - 14 AWG
CSA	300 V	15 A	30 - 14 AWG
Solder Pin	0.5 x 1.0 mm		
Drill Hole	1.2 mm		
Wire Strip Length	6.0 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8192 E pitch 5.00 mm

Box Qty	G	T	Pole
50	13.05	5	4
50	18.05	10	6
50	23.05	15	8
50	28.05	20	10
50	33.05	25	12
50	38.05	30	14
50	43.05	35	16
50	48.05	40	18
50	53.05	45	20
50	58.05	50	22
50	63.05	55	24

unmarked
without insulating plate

Part Number
25.198.5253.0
25.198.5353.0
25.198.5453.0
25.198.5553.0
25.198.5653.0
25.198.5753.0
25.198.5853.0
25.198.5953.0
25.198.6053.0
25.198.6153.0
25.198.6253.0

marked
without insulating plate

Part Number
25.198.0253.0
25.198.0353.0
25.198.0453.0
25.198.0553.0
25.198.0653.0
25.198.0753.0
25.198.0853.0
25.198.0953.0
25.198.1053.0
25.198.1153.0
25.198.1253.0

unmarked
with insulating plate
with locating cams

Part Number
25.198.9253.0
25.198.9353.0

marked
with insulating plate
with locating cams

Part Number
25.198.4253.0
25.198.4353.0

series 8292 E pitch 5.08 mm

Box Qty	G	T	Pole
50	13.25	5.08	4
50	18.33	10.16	6
50	23.41	15.24	8
50	28.49	20.32	10
50	33.57	25.40	12
50	38.65	30.48	14
50	43.73	35.56	16
50	48.81	40.64	18
50	53.89	45.72	20
50	58.97	50.80	22
50	64.05	55.88	24

unmarked
without insulating plate

Part Number
25.199.5253.0
25.199.5353.0
25.199.5453.0
25.199.5553.0
25.199.5653.0
25.199.5753.0
25.199.5853.0
25.199.5953.0
25.199.6053.0
25.199.6153.0
25.199.6253.0

marked
without insulating plate

Part Number
25.199.0253.0
25.199.0353.0
25.199.0453.0
25.199.0553.0
25.199.0653.0
25.199.0753.0
25.199.0853.0
25.199.0953.0
25.199.1053.0
25.199.1153.0
25.199.1253.0

unmarked
with insulating plate
with locating cams

Part Number
25.199.9253.0
25.199.9353.0

marked
with insulating plate
with locating cams

Part Number
25.199.4253.0
25.199.4353.0

PCB terminal series 8191 / 8291, rising cage clamp system

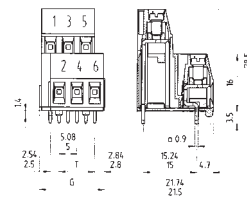
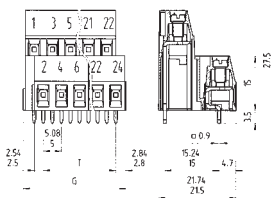
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 30 A (Factory)	22 - 12 AWG
CSA	300 V	25 A	22 - 12 AWG
Solder Pin	0.9 x 0.9 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6.5 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8191 E pitch 5.00 mm

Box Qty	G	T	Pole
50	13.05	5	4
50	18.05	10	6
50	23.05	15	8
50	28.05	20	10
50	33.05	25	12
50	38.05	30	14
50	43.05	35	16
50	48.05	40	18
50	53.05	45	20
50	58.05	50	22
50	63.05	55	24

unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with locating cams	marked with insulating plate with locating cams
Part Number	Part Number	Part Number	Part Number
25.178.5253.0	25.178.0253.0	25.178.9253.0	25.178.4253.0
25.178.5353.0	25.178.0353.0	25.178.9353.0	25.178.4353.0
25.178.5453.0	25.178.0453.0		
25.178.5553.0	25.178.0553.0		
25.178.5653.0	25.178.0653.0		
25.178.5753.0	25.178.0753.0		
25.178.5853.0	25.178.0853.0		
25.178.5953.0	25.178.0953.0		
25.178.6053.0	25.178.1053.0		
25.178.6153.0	25.178.1153.0		
25.178.6253.0	25.178.1253.0		

series 8291 E pitch 5.08 mm

Box Qty	G	T	Pole
50	13.25	5.08	4
50	18.33	10.16	6
50	23.41	15.24	8
50	28.49	20.32	10
50	33.57	25.40	12
50	38.65	30.48	14
50	43.73	35.56	16
50	48.81	40.64	18
50	53.89	45.72	20
50	58.97	50.80	22
50	64.05	55.88	24

unmarked without insulating plate	marked without insulating plate	unmarked with insulating plate with locating cams	marked with insulating plate with locating cams
Part Number	Part Number	Part Number	Part Number
25.179.5253.0	25.179.0253.0	25.179.9253.0	25.179.4253.0
25.179.5353.0	25.179.0353.0	25.179.9353.0	25.179.4353.0
25.179.5453.0	25.179.0453.0		
25.179.5553.0	25.179.0553.0		
25.179.5653.0	25.179.0653.0		
25.179.5753.0	25.179.0753.0		
25.179.5853.0	25.179.0853.0		
25.179.5953.0	25.179.0953.0		
25.179.6053.0	25.179.1053.0		
25.179.6153.0	25.179.1153.0		
25.179.6253.0	25.179.1253.0		

PCB terminal
series 8190, rising cage clamp system

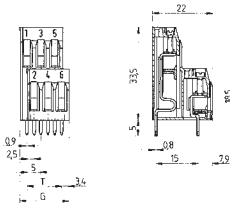
pitch 5.00 mm

IEC	250 V 4kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	690 V 4kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	10 A	22 - 14 AWG
Solder Pin			0.8 x 0.9 mm
Drill Hole			1.2 mm
Wire Strip Length			6.5 mm
Screw Size			M2.5



See Technical Data section for screw material options

Approvals:



series 8190 E pitch 5.00 mm				unmarked	marked		
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
50	13.36	5	4	25.131.3253.0	25.130.3253.0		
50	18.36	10	6	25.131.3353.0	25.130.3353.0		
50	23.36	15	8	25.131.3453.0	25.130.3453.0		
50	28.36	20	10	25.131.3553.0	25.130.3553.0		
50	33.36	25	12	25.131.3653.0	25.130.3653.0		
50	38.36	30	14	25.131.3753.0	25.130.3753.0		
50	43.36	35	16	25.131.3853.0	25.130.3853.0		
50	48.36	40	18	25.131.3953.0	25.130.3953.0		
50	53.36	45	20	25.131.4053.0	25.130.4053.0		
50	58.36	50	22	25.131.4153.0	25.130.4153.0		
50	63.36	55	24	25.131.4253.0	25.130.4253.0		

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

PCB terminal series 8291, spring clamp system

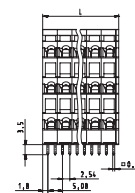
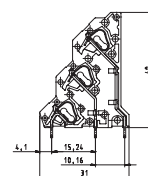
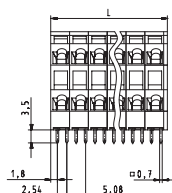
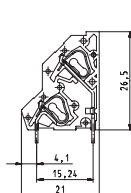
pitch 5.08 mm

IEC	250 V 4kV cat.3		0.08 - 2.5 mm ² (Stranded) 0.08 - 2.5 mm ² (Solid)
UL	300 V	12 A	28 - 12 AWG
CSA	300 V	12 A	28 - 18 AWG
Solder Pin			0.7 x 0.7 mm
Drill Hole			1.0 mm
Wire Strip Length			6.0 mm



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

series 8291 EFK OB pitch 5.08 mm

unmarked

Box Qty	G	T	Pole
100	11.36	5.08	2
100	16.44	10.16	3
50	21.52	15.24	4
50	26.60	20.32	5
50	31.68	25.40	6
50	36.76	30.48	7
50	41.84	35.56	8
50	46.92	40.64	9
50	52.00	45.72	10
50	57.08	50.80	11
50	62.19	55.88	12
50	67.24	60.96	13
50	72.32	66.04	14
50	77.40	71.12	15
50	82.48	76.20	16

Part Number	Part Number	Part Number	Part Number
27.008.3253.0		27.009.3253.0	
27.008.3353.0		27.009.3353.0	
27.008.3453.0		27.009.3453.0	
27.008.3553.0		27.009.3553.0	
27.008.3653.0		27.009.3653.0	
27.008.3753.0		27.009.3753.0	
27.008.3853.0		27.009.3853.0	
27.008.3953.0		27.009.3953.0	
27.008.4053.0		27.009.4053.0	
27.008.4153.0		27.009.4153.0	
27.008.4253.0		27.009.4253.0	
27.008.4353.0		27.009.4353.0	
27.008.4453.0		27.009.4453.0	
27.008.4553.0		27.009.4553.0	
27.008.4653.0		27.009.4653.0	

PCB terminal series 8191 / 8291, rising cage clamp system

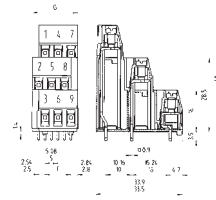
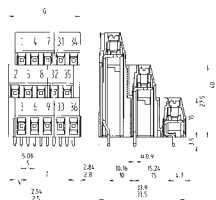
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 690 V 4kV cat.2 1000 V 4kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	20 A (Field) 30 A (Factory)	22 - 12 AWG
CSA	300 V	25 A	22 - 12 AWG
Solder Pin	0.9 x 0.9 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6.5 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8191 D pitch 5.00 mm

Box Qty	G	T	Pole
50	12.8	5	6
50	17.8	10	9
50	22.8	15	12
50	27.8	20	15
50	32.8	25	18
50	37.8	30	21
50	42.8	35	24
50	47.8	40	27
50	52.8	45	30
50	57.8	50	33
50	62.8	55	36

unmarked
without insulating plate

Part Number
25.180.5253.0
25.180.5353.0
25.180.5453.0
25.180.5553.0
25.180.5653.0
25.180.5753.0
25.180.5853.0
25.180.5953.0
25.180.6053.0
25.180.6153.0
25.180.6253.0

marked
without insulating plate

Part Number
25.180.0253.0
25.180.0353.0
25.180.0453.0
25.180.0553.0
25.180.0653.0
25.180.0753.0
25.180.0853.0
25.180.0953.0
25.180.1053.0
25.180.1153.0
25.180.1253.0

unmarked
with insulating plate
with locating cams

Part Number
25.180.9253.0
25.180.9353.0

marked
with insulating plate
with locating cams

Part Number
25.180.4253.0
25.180.4353.0

series 8291 D pitch 5.08 mm

Box Qty	G	T	Pole
50	12.70	5.08	6
50	17.78	10.16	9
50	22.86	15.24	12
50	27.94	20.32	15
50	33.02	25.40	18
50	38.10	30.48	21
50	43.18	35.56	24
50	48.26	40.64	27
50	53.34	45.72	30
50	58.42	50.80	33
50	63.50	55.88	36

unmarked
without insulating plate

Part Number
25.181.5253.0
25.181.5353.0
25.181.5453.0
25.181.5553.0
25.181.5653.0
25.181.5753.0
25.181.5853.0
25.181.5953.0
25.181.6053.0
25.181.6153.0
25.181.6253.0

marked
without insulating plate

Part Number
25.181.0253.0
25.181.0353.0
25.181.0453.0
25.181.0553.0
25.181.0653.0
25.181.0753.0
25.181.0853.0
25.181.0953.0
25.181.1053.0
25.181.1153.0
25.181.1253.0

unmarked
with insulating plate
with locating cams

Part Number
25.181.9253.0
25.181.9353.0

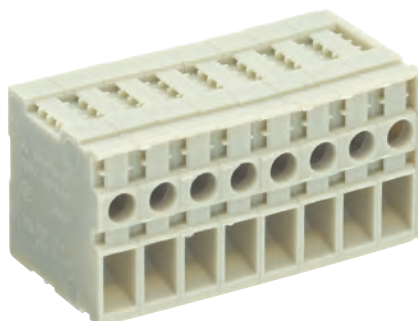
marked
with insulating plate
with locating cams

Part Number
25.181.4253.0
25.181.4353.0

PCB terminal series 7386, TOP connection system

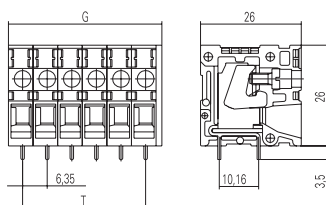
pitch 6.35 mm

IEC	320 V 4kV cat.3	36 A	0.50 - 4.0 mm ² (Stranded)
	320 V 4kV cat.2		0.50 - 6.0 mm ² (Solid)
	320 V 4kV cat.1		
UL	300 V	30 A	22 - 10 AWG
CSA	300 V	30 A	22 - 10 AWG
Solder Pin			0.8 x 0.9 mm
Drill Hole			1.3 mm
Wire Strip Length			13.0 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 7386 TOP H pitch 6.35 mm

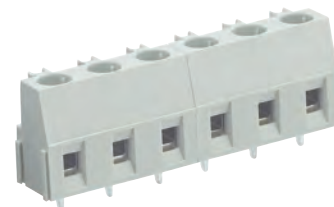
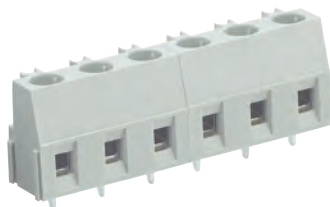
unmarked

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
50	14.20	6.35	2	27.714.0253.0			
50	20.55	12.70	3	27.714.0353.0			
50	26.90	19.05	4	27.714.0453.0			
50	33.25	25.40	5	27.714.0553.0			
50	39.60	31.75	6	27.714.0653.0			
50	45.95	38.10	7	27.714.0753.0			
50	52.30	44.45	8	27.714.0853.0			

PCB terminal series 8391 / 8491, rising cage clamp system

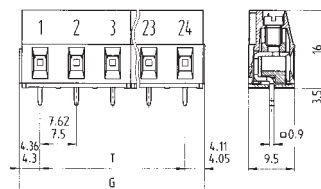
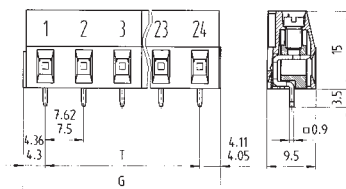
pitch 7.50 / 7.62 mm

IEC	400 V 6kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 6kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 6kV cat.1		
UL	300 V	20 A (Field)	22 - 12 AWG
		30 A (Factory)	
CSA	300 V	25 A	22 - 12 AWG
Solder Pin			0.9 x 0.9 mm
Drill Hole			1.3 mm
Wire Strip Length			6.5 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



series 8391 pitch 7.50 mm

Box Qty	G	T	Pole
100	15.85	7.50	2
100	23.35	15.0	3

unmarked without insulating plate	marked with insulating plate without locating cams	unmarked with insulating plate with locating cams	marked without insulating plate
Part Number	Part Number	Part Number	Part Number
25.165.0253.0	25.165.3253.0	25.175.0253.0	25.164.0253.0
25.165.0353.0	25.165.3353.0	25.175.0353.0	25.164.0353.0

series 8491 pitch 7.62 mm

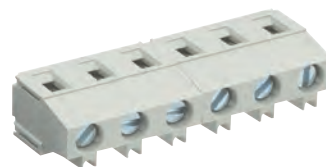
Box Qty	G	T	Pole
100	16.09	7.62	2
100	23.71	15.24	3

unmarked without insulating plate	marked with insulating plate without locating cams	unmarked with insulating plate with locating cams	marked without insulating plate
Part Number	Part Number	Part Number	Part Number
25.167.0253.0	25.167.3253.0	25.177.0253.0	25.166.0253.0
25.167.0353.0	25.167.3353.0	25.177.0353.0	25.166.0353.0

PCB terminal series 8391 / 8491, rising cage clamp system

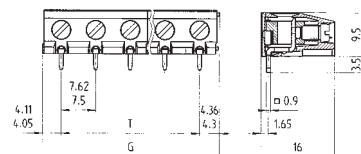
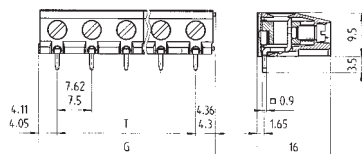
pitch 7.50 / 7.62 mm

IEC	400 V 6kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 6kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 6kV cat.1		
UL	300 V	20 A (Field)	22 - 12 AWG
		30 A (Factory)	
CSA	300 V	25 A	22 - 12 AWG
Solder Pin			0.9 x 0.9 mm
Drill Hole			1.3 mm
Wire Strip Length			6.5 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



series 8391 ZW pitch 7.50 mm

Box Qty	G	T	Pole
100	15.85	7.50	2
100	23.35	15.0	3

unmarked
with insulating plate
without locating cams

Part Number

25.164.3253.0

25.164.3353.0

marked
with insulating plate
with locating cams

Part Number

25.174.0253.0

25.174.0353.0

unmarked
with insulating plate

Part Number

25.165.6253.0

25.165.6353.0

marked
with insulating plate

Part Number

25.164.6253.0

25.164.6353.0

series 8491 ZW pitch 7.62 mm

Box Qty	G	T	Pole
100	16.09	7.62	2
100	23.71	15.24	3

unmarked
with insulating plate
without locating cams

Part Number

25.166.3253.0

25.166.3353.0

marked
with insulating plate
with locating cams

Part Number

25.176.0253.0

25.176.0353.0

unmarked
with insulating plate

Part Number

25.167.6253.0

25.167.6353.0

marked
with insulating plate

Part Number

25.166.6253.0

25.166.6353.0

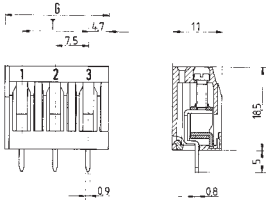
PCB terminal
series 8390, rising cage clamp system

pitch 7.50 mm

IEC	500 V 6kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 6kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 6kV cat.1		
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	10 A	22 - 14 AWG
Solder Pin			0.8 x 0.9 mm
Drill Hole			1.2 mm
Wire Strip Length			6.5 mm
Screw Size			M2.5



See Technical Data section for screw material options



series 8390 pitch 7.50 mm					unmarked		marked	
Box Qty	G	T	Pole		Part Number		Part Number	
100	15.86	7.5	2		25.151.0253.0		25.150.0253.0	
100	23.36	15.0	3		25.151.0353.0		25.150.0353.0	
50	30.86	22.5	4		25.151.0453.0		25.150.0453.0	
50	38.36	30.0	5		25.151.0553.0		25.150.0553.0	
50	45.86	37.5	6		25.151.0653.0		25.150.0653.0	
50	53.36	45.0	7		25.151.0753.0		25.150.0753.0	
50	60.86	52.5	8		25.151.0853.0		25.150.0853.0	
50	68.36	60.0	9		25.151.0953.0		25.150.0953.0	
50	75.86	67.5	10		25.151.1053.0		25.150.1053.0	
50	83.36	75.0	11		25.151.1153.0		25.150.1153.0	
50	90.86	82.5	12		25.151.1253.0		25.150.1253.0	

Box Qty	G	T	Pole		Part Number		Part Number	

PCB terminal series 8474, rising cage clamp system

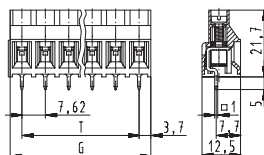
pitch 7.62 mm

IEC	250 V 6kV cat.3	16 A	0.5 - 6.0 mm ² (Stranded) 0.5 - 6.0 mm ² (Solid)
UL	300 V	30 A	20 -10 AWG
CSA	300 V	30 A	20 -10 AWG
Solder Pin	1.0 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	8 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

series 8474 pitch 7.62 mm

Box Qty	G	T	Pole
50	16.74	7.62	2
50	24.36	15.24	3
50	31.98	22.86	4
50	39.60	30.48	5
50	47.22	38.10	6
50	54.84	45.72	7
50	62.46	53.34	8
50	70.08	60.96	9
50	77.70	68.58	10
50	85.32	76.20	11
50	92.94	83.82	12
50	100.56	91.44	13
50	108.18	99.06	14
50	115.80	106.68	15
50	123.42	114.30	16

unmarked

Part Number	Part Number	Part Number	Part Number
27.011.3253.0			
27.011.3353.0			
27.011.3453.0			
27.011.3553.0			
27.011.3653.0			
27.011.3753.0			
27.011.3853.0			
27.011.3953.0			
27.011.4053.0			
27.011.4153.0			
27.011.4253.0			
27.011.4353.0			
27.011.4453.0			
27.011.4553.0			
27.011.4653.0			

PCB terminal series 8385 / 8485, TOP connection system

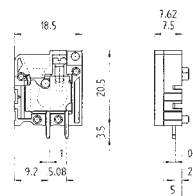
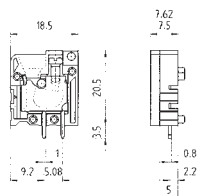
pitch 7.50 / 7.62 mm

IEC	400 V 4kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 4kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	20 A (Field)	22 - 12 AWG
		25 A (Factory)	30 - 12 AWG
CSA	300 V	25 A	22 - 12 AWG
Solder Pin			0.8 x 1.0 mm
Drill Hole			1.3 mm
Wire Strip Length			9.0 mm
Screw Size			M2.5



See Technical Data section for screw material options

Approvals:



series 8385 TOP V pitch 7.50 mm

Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8

Part Number		Individual poles connected in series (1 pole)	Individual poles connected in series (end plate)
25.761.0253.0	Part Number	25.761.0053.0	07.300.4753.0
25.761.0353.0			
25.761.0453.0			
25.761.0553.0			
25.761.0653.0			
25.761.0753.0			
25.761.0853.0			

series 8485 TOP V pitch 7.62 mm

Box Qty	G	T	Pole
100			2
100			3
50			4
50			5
50			6
50			7
50			8

Part Number		Individual poles connected in series (1 pole)	Individual poles connected in series (end plate)
25.771.0253.0	Part Number	25.771.0053.0	07.300.4753.0
25.771.0353.0			
25.771.0453.0			
25.771.0553.0			
25.771.0653.0			
25.771.0753.0			
25.771.0853.0			

PCB terminal series 8385 / 8485, TOP connection system

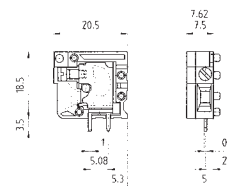
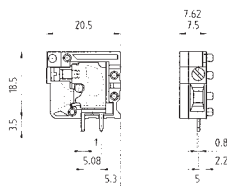
pitch 7.50 / 7.62 mm

IEC	400 V 6kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 6kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 6kV cat.1		
UL	300 V	20 A (Field)	22 - 12 AWG
		25 A (Factory)	30 - 12 AWG
CSA	300 V	25 A	22 - 12 AWG
Solder Pin			0.8 x 1.0 mm
Drill Hole			1.3 mm
Wire Strip Length			9.0 mm
Screw Size			M2.5



See Technical Data section for screw material options

Approvals:



series 8385 TOP H pitch 7.50 mm

Box Qty	G	T	Pole	Individual poles connected in series (1 pole)		Individual poles connected in series (end plate)	
				Part Number	Part Number	Part Number	Part Number
100			2	25.761.3253.0		25.761.0153.0	07.300.4753.0
100			3	25.761.3353.0			
50			4	25.761.3453.0			
50			5	25.761.3553.0			
50			6	25.761.3653.0			
50			7	25.761.3753.0			
50			8	25.761.3853.0			

series 8485 TOP H pitch 7.62 mm

Box Qty	G	T	Pole	Individual poles connected in series (1 pole)		Individual poles connected in series (end plate)	
				Part Number	Part Number	Part Number	Part Number
100			2	25.771.3253.0		25.771.0153.0	07.300.4753.0
100			3	25.771.3353.0			
50			4	25.771.3453.0			
50			5	25.771.3553.0			
50			6	25.771.3653.0			
50			7	25.771.3753.0			
50			8	25.771.3853.0			

PCB terminal
series 8486, TOP connection system

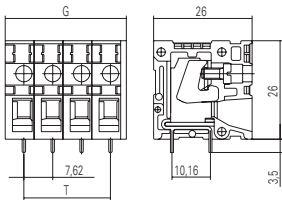
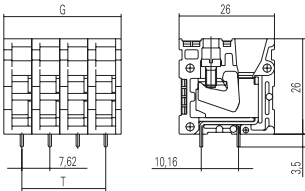
pitch 7.62 mm

IEC	500 V 4kV cat.3	36 A	0.50 - 4.0 mm ² (Stranded)
	630 V 4kV cat.2		0.50 - 6.0 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	30 A	22 - 10 AWG
CSA	300 V	30 A	22 - 10 AWG
Solder Pin		0.8 x 0.9 mm	
Drill Hole		1.3 mm	
Wire Strip Length		13 mm	
Screw Size		M3	



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8486 TOP V/H pitch 7.62 mm				unmarked		unmarked	
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
50	16.74	7.62	2	27.703.0253.0		27.713.0253.0	
50	24.36	15.24	3	27.703.0353.0		27.713.0353.0	
50	31.98	22.86	4	27.703.0453.0		27.713.0453.0	

PCB terminal series 8358, 8458 spring clamp system

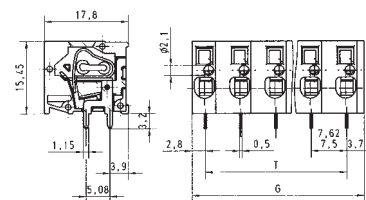
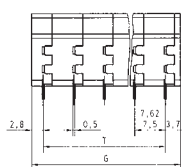
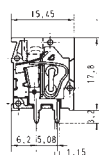
pitch 7.50 / 7.62 mm

IEC	400 V 6kV cat.3 1000 V 6kV cat.2 1000 V 6kV cat.1	16 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL			22 - 12 AWG 30 - 12 AWG
CSA			22 - 12 AWG
Solder Pin			0.5 x 1.15 mm
Drill Hole			1.3 mm
Wire Strip Length			9.0 mm



See Technical Data section for screw material options

Approvals:



series 8358 TOP V/H pitch 7.50 mm

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			2	25.782.0253.0		25.792.0253.0	
100			3	25.782.0353.0		25.792.0353.0	
50			4	25.782.0453.0		25.792.0453.0	
50			5	25.782.0553.0		25.792.0553.0	
50			6	25.782.0653.0		25.792.0653.0	
50			7	25.782.0753.0		25.792.0753.0	
50			8	25.782.0853.0		25.792.0853.0	
50			9	25.782.0953.0		25.792.0953.0	
50			10	25.782.1053.0		25.792.1053.0	
50			11	25.782.1153.0		25.792.1153.0	
50			12	25.782.1253.0		25.792.1253.0	
50			13	25.782.1353.0		25.792.1353.0	
50			14	25.782.1453.0		25.792.1453.0	
50			15	25.782.1553.0		25.792.1553.0	
50			16	25.782.1653.0		25.792.1653.0	

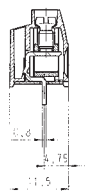
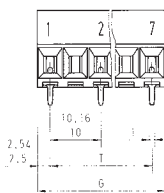
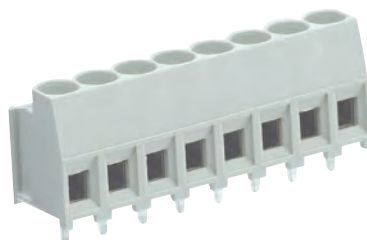
series 8458 TOP V/H pitch 7.62 mm

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			2	25.783.0253.0		25.793.0253.0	
100			3	25.783.0353.0		25.793.0353.0	
50			4	25.783.0453.0		25.793.0453.0	
50			5	25.783.0553.0		25.793.0553.0	
50			6	25.783.0653.0		25.793.0653.0	
50			7	25.783.0753.0		25.793.0753.0	
50			8	25.783.0853.0		25.793.0853.0	
50			9	25.783.0953.0		25.793.0953.0	
50			10	25.783.1053.0		25.793.1053.0	
50			11	25.783.1153.0		25.793.1153.0	
50			12	25.783.1253.0		25.793.1253.0	
50			13	25.783.1353.0		25.793.1353.0	
50			14	25.783.1453.0		25.793.1453.0	
50			15	25.783.1553.0		25.793.1553.0	
50			16	25.783.1653.0		25.793.1653.0	

PCB terminal series 8191 / 8291, rising cage clamp system

pitch 10.00 / 10.16 mm

IEC	690 V 8kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 8kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 8kV cat.1		
UL	600 V	20 A (Field)	22 - 12 AWG
		30 A (Factory)	
CSA	600 V	25 A	22 - 12 AWG
Solder Pin			0.9 x 0.9 mm
Drill Hole			1.3 mm
Wire Strip Length			6.5 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



series 8191 R pitch 10.00 mm

Box Qty	G	T	Pole
500	15	10	2
250	25	20	3
200	35	30	4
100	45	40	5
50	55	50	6
50	65	60	7

unmarked
with insulating platemarked
with insulating plate

Part Number	Part Number	Part Number	Part Number
25.157.0253.0	25.157.1253.0		
25.157.0353.0	25.157.1353.0		
25.157.0453.0	25.157.1453.0		
25.157.0553.0	25.157.1553.0		
25.157.0653.0	25.157.1653.0		
25.157.0753.0	25.157.1753.0		

series 8291 R pitch 10.16 mm

Box Qty	G	T	Pole
500	15.24	10.16	2
250	25.40	20.32	3
200	35.56	30.48	4
100	45.72	40.64	5
50	55.88	50.80	6
50	66.04	60.96	7

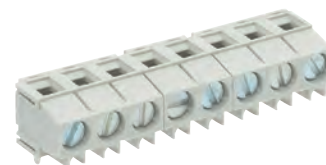
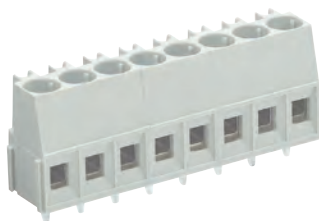
unmarked
with insulating platemarked
with insulating plate

Part Number	Part Number	Part Number	Part Number
25.157.4253.0	25.157.5253.0		
25.157.4353.0	25.157.5353.0		
25.157.4453.0	25.157.5453.0		
25.157.4553.0	25.157.5553.0		
25.157.4653.0	25.157.5653.0		
25.157.4753.0	25.157.5753.0		

PCB screw terminal series 8191 / 8291, rising cage clamp system

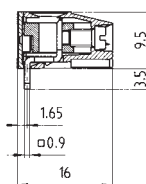
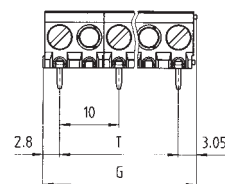
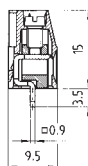
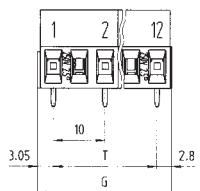
pitch 10.00 mm

IEC	690 V 8kV cat.3	16 A	0.14 - 2.5 mm ² (Stranded)
	1000 V 8kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 8kV cat.1		
UL	300 V	20 A (Field)	22 -12 AWG
		30 A (Factory)	
CSA	300 V	25 A	22 -12 AWG
Solder Pin			0.9 x 0.9 mm
Drill Hole			1.3 mm
Wire Strip Length			6.5 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



series 8191 / ZW pitch 10.00 mm

Box Qty	G	T	Pole
100	15.85	10	2
50	25.85	20	3

unmarked
without insulating plate
without locating cams

Part Number
25.169.0253.0
25.169.0353.0

marked
without insulating plate
without locating cams

Part Number
25.168.0253.0
25.168.0353.0

unmarked
with insulating plate
with locating cams

Part Number
25.169.4253.0
25.169.4353.0

marked
with insulating plate
with locating cams

Part Number
25.168.4253.0
25.168.4353.0

Box Qty G T Pole

Part Number

Part Number

Part Number

Part Number

PCB screw terminal series 7573, rising cage clamp system

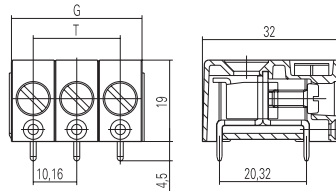
pitch 10.16 mm

IEC	400 V 6kV cat.3	59 A	0.50 - 10.0 mm ² (Stranded)
	690 V 6kV cat.2		0.50 - 10.0 mm ² (Solid)
	1000 V 6kV cat.1		
UL	300 V	50 A	22 - 8 AWG
CSA	300 V	50 A	22 - 8 AWG
Solder Pin			1.2 x 1.4 mm
Drill Hole			1.6 mm
Wire Strip Length			10.0 mm
Screw Size			M4



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 7573 L2/W pitch 10.16 mm

unmarked

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
50	10.16		1	27.002.6153.0			
50	30.48	20.32	3	27.002.6353.0			
50	40.64	30.48	4	27.002.6453.0			

PCB terminal
series 7572, rising cage clamp system

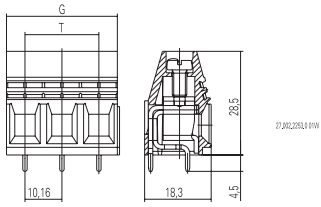
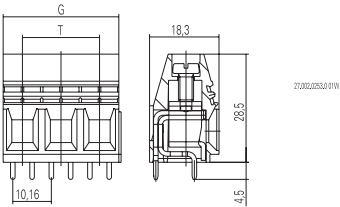
pitch 10.16 mm

IEC	250 V 4kV cat.3	57 A	0.50 - 10.0 mm ² (Stranded)
	400 V 4kV cat.2		0.50 - 16.0 mm ² (Solid)
	630 V 4kV cat.1		
UL	300 V (Field)	10 A (Field)	22 - 8 AWG
	150 V (Factory)	40 A (Factory)	
CSA	300 V	50 A	22 - 8 AWG
Solder Pin			1.2 x 1.2 mm
Drill Hole			1.6 mm
Wire Strip Length			12.0 mm
Screw Size			M4



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 7572 L4/L2 pitch 10.16 mm				unmarked		unmarked	
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
50	20.32	10.16	2	27.002.0253.0		27.002.2253.0	
50	30.48	20.32	3	27.002.0353.0		27.002.2353.0	

PCB terminal series 7572, rising cage clamp system

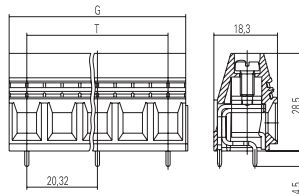
pitch 20.32 mm

IEC	1000 V 8kV cat.3	57 A	0.50 - 10.0 mm ² (Stranded) 0.50 - 16.0 mm ² (Solid)
UL	600 V	60 A	22 - 6 AWG
CSA		50 A	22 - 8 AWG
Solder Pin			1.2 x 1.2 mm
Drill Hole			1.6 mm
Wire Strip Length			12.0 mm
Screw Size			M4



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 7572 L2 pitch 20.32 mm

unmarked

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
50	30.48	20.32	2	27.002.4253.0			
50	50.64	40.48	3	27.002.4353.0			



Systems feature

- screw connection is easy to operate
- plug in system easy to service
- easily detachable connection
- number of poles 2 – 24
- clear straight forward interconnection
- horizontal and vertical configurations
- individually matched to the relevant application
- terminal clamping part with wire protection



Marking

- ink jet printing directly onto the terminal using indelible ink
- clear pole marking which is easy to read
- special marking is possible on request
- economical marking directly onto the terminal

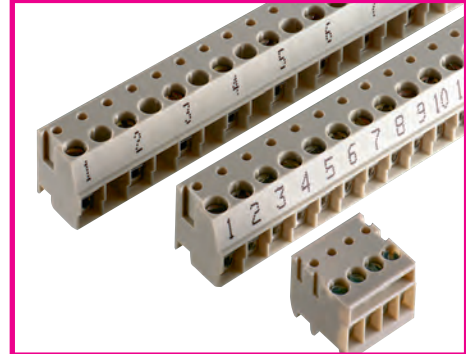
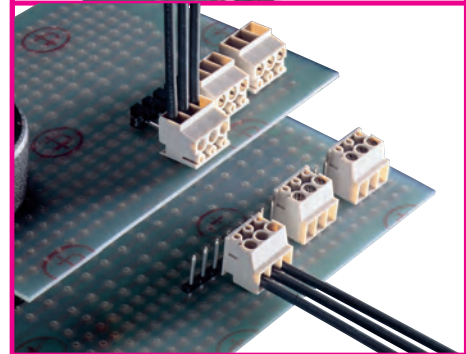
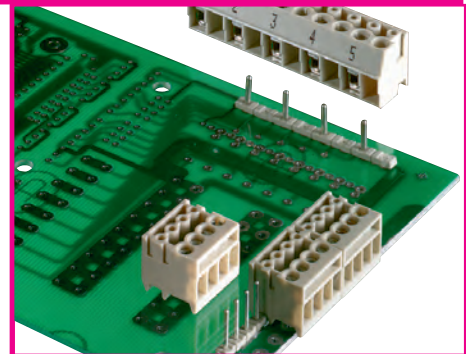
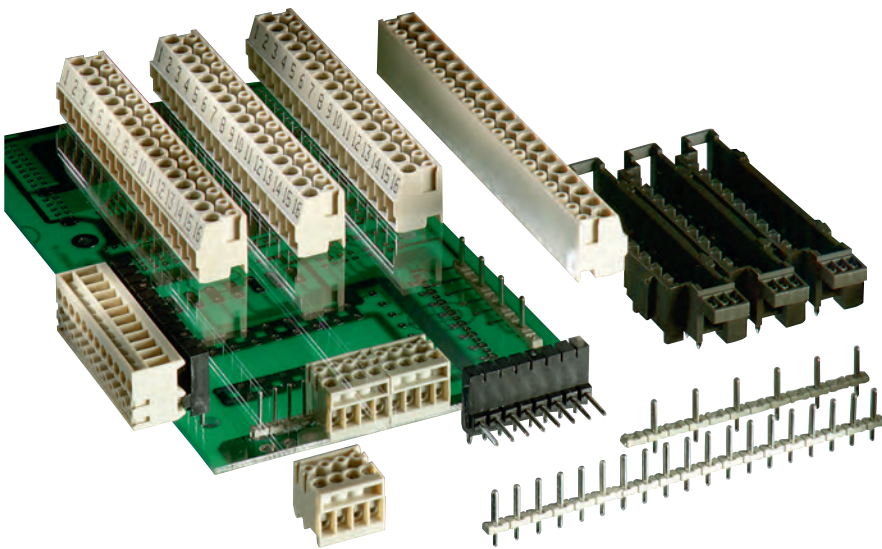


Type range

- pitch (3.5/7/5/10) mm
- 2 – 24 pole
- pin strips with straight or angled pins
- pin diameters 0.8 mm, 1 mm and 1.3 mm



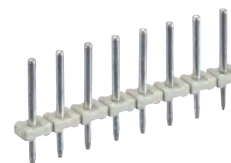
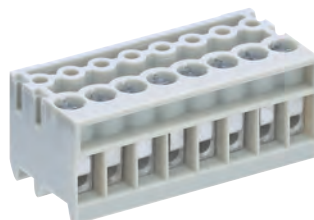
Two part PCB Terminals



PCB screw terminal series 8543, two part PCB terminal

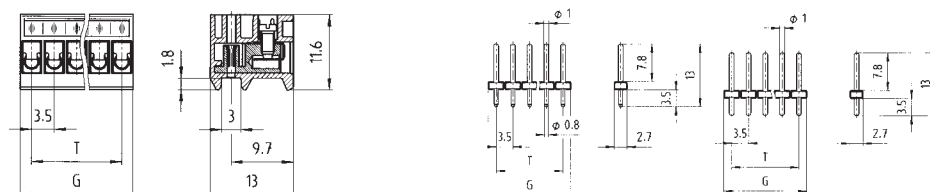
pitch 3.50 mm

IEC	160 V 2.5kV cat.3 250 V 2.5kV cat.2 690 V 2.5kV cat.1	6 A	0.14 - 1.0 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	10 A	22 -16 AWG
CSA	300 V	10 A	22 -16 AWG
Solder Pin	1.0 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	5 mm		
Screw Size	M2		



See Technical Data section for screw material options

Approvals:



series 8543 pitch 3.50 mm

Box Qty	G	T	Pole
100	7.0	3.5	2
100	10.5	7.0	3
50	14.0	10.5	4
50	17.5	14.0	5
50	21.0	17.5	6
50	24.5	21.0	7
50	28.0	24.5	8
50	31.5	28.0	9
50	35.0	31.5	10
50	38.5	35.0	11
50	42.0	38.5	12
50	45.5	42.0	13
50	49.0	45.5	14
50	52.5	49.0	15
50	56.0	52.5	16

unmarked

marked

Grey
pin Ø 0.8 mmBlack
pin Ø 1.0 mm

Part Number	Part Number	Part Number	Part Number
25.602.5253.0	25.600.5253.0	Z5.531.0225.0	Z5.531.3225.0
25.602.5353.0	25.600.5353.0	Z5.531.0325.0	Z5.531.3325.0
25.602.5453.0	25.600.5453.0	Z5.531.0425.0	Z5.531.3425.0
25.602.5553.0	25.600.5553.0	Z5.531.0525.0	Z5.531.3525.0
25.602.5653.0	25.600.5653.0	Z5.531.0625.0	Z5.531.3625.0
25.602.5753.0	25.600.5753.0	Z5.531.0725.0	Z5.531.3725.0
25.602.5853.0	25.600.5853.0	Z5.531.0825.0	Z5.531.3825.0
25.602.5953.0	25.600.5953.0	Z5.531.0925.0	Z5.531.3925.0
25.602.6053.0	25.600.6053.0	Z5.531.1025.0	Z5.531.4025.0
25.602.6153.0	25.600.6153.0	Z5.531.1125.0	Z5.531.4125.0
25.602.6253.0	25.600.6253.0	Z5.531.1225.0	Z5.531.4225.0
25.602.6353.0	25.600.6353.0	Z5.531.1325.0	Z5.531.4325.0
25.602.6453.0	25.600.6453.0	Z5.531.1425.0	Z5.531.4425.0
25.602.6553.0	25.600.6553.0	Z5.531.1525.0	Z5.531.4525.0
25.602.6653.0	25.600.6653.0	Z5.531.1625.0	Z5.531.4625.0

Box Qty G T Pole

Part Number

Part Number

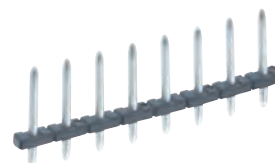
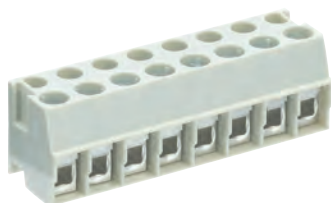
Part Number

Part Number

PCB screw terminal series 8142, two part PCB terminal wire guard clamp

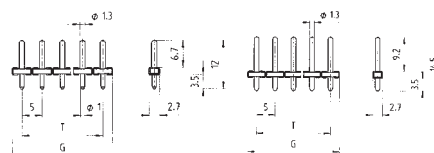
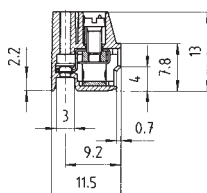
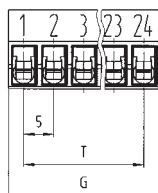
pitch 5.00 mm

IEC	200 V 4kV cat.3 250 V 4kV cat.2 1000 V 4kV cat.1	8 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	15 A	22 -12 AWG
CSA	300 V	15 A	22 -12 AWG
Solder Pin	1.0 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	5 mm		
Screw Size	M2.5		



See Technical Data section for screw material options

Approvals:



series 8142 OB pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked	marked	Grey pin Ø 1.0 mm	Black pin Ø 1.3 mm
Part Number	Part Number	Part Number	Part Number
25.602.2253.0	25.600.2253.0	Z5.530.0225.0	Z5.530.3225.0
25.602.2353.0	25.600.2353.0	Z5.530.0325.0	Z5.530.3325.0
25.602.2453.0	25.600.2453.0	Z5.530.0425.0	Z5.530.3425.0
25.602.2553.0	25.600.2553.0	Z5.530.0525.0	Z5.530.3525.0
25.602.2653.0	25.600.2653.0	Z5.530.0625.0	Z5.530.3625.0
25.602.2753.0	25.600.2753.0	Z5.530.0725.0	Z5.530.3725.0
25.602.2853.0	25.600.2853.0	Z5.530.0825.0	Z5.530.3825.0
25.602.2953.0	25.600.2953.0	Z5.530.0925.0	Z5.530.3925.0
25.602.3053.0	25.600.3053.0	Z5.530.1025.0	Z5.530.4025.0
25.602.3153.0	25.600.3153.0	Z5.530.1125.0	Z5.530.4125.0
25.602.3253.0	25.600.3253.0	Z5.530.1225.0	Z5.530.4225.0
25.602.3353.0	25.600.3353.0	Z5.530.1325.0	Z5.530.4325.0
25.602.3453.0	25.600.3453.0	Z5.530.1425.0	Z5.530.4425.0
25.602.3553.0	25.600.3553.0	Z5.530.1525.0	Z5.530.4525.0
25.602.3653.0	25.600.3653.0	Z5.530.1625.0	Z5.530.4625.0

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

IEC	250 V 2.5kV cat.3		0.5 - 2.5 mm ² (Stranded) 0.5 - 2.5 mm ² (Solid)
UL	300 V	3 A (PR) 10 A (PR HC)	22 - 12 AWG
CSA	300 V	15 A 10 A (PR HC)	22 - 12 AWG
Solder Pin			1.0 x 1.0 mm
Drill Hole			1.3 mm
Wire Strip Length			6 mm
Screw Size			M3

See Technical Data section for screw material options

Approvals:

series 8142 Z PR / PR HC OB
pitch 5.00 mm

PCB screw terminal series 8142, two part PCB terminal raising cage clamp

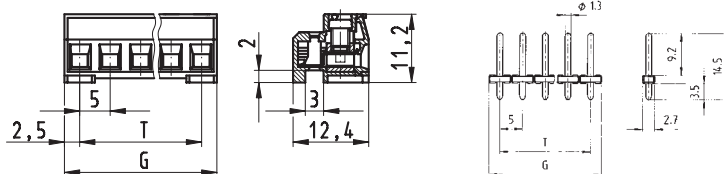
pitch 5.00 mm

IEC	250 V 2.5kV cat.3	8 A (40 °C) 3 A (70 °C)	0.14 - 1.5 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	8 A	22 -12 AWG
CSA	300 V	5 A	22 -12 AWG
Solder Pin			1.0 x 1.0 mm
Drill Hole			1.3 mm
Wire Strip Length			6 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



series 8142 Z OB pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

Part Number	Part Number
27.602.0253.0	
27.602.0353.0	
27.602.0453.0	
27.602.0553.0	
27.602.0653.0	
27.602.0753.0	
27.602.0853.0	
27.602.0953.0	
27.602.1053.0	
27.602.1153.0	
27.602.1253.0	
27.602.1353.0	
27.602.1453.0	
27.602.1553.0	
27.602.1653.0	

THR
box

Part Number	Part Number
Z5.530.0204.0	Z5.530.0214.0
Z5.530.0304.0	Z5.530.0314.0
Z5.530.0404.0	Z5.530.0414.0
Z5.530.0504.0	Z5.530.0514.0
Z5.530.0604.0	Z5.530.0614.0
Z5.530.0704.0	Z5.530.0714.0
Z5.530.0804.0	Z5.530.0814.0
Z5.530.0904.0	Z5.530.0914.0
Z5.530.1004.0	Z5.530.1014.0
Z5.530.1104.0	Z5.530.1114.0
Z5.530.1204.0	Z5.530.1214.0

THR
tape on reel

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

PCB screw terminal series 8142, two part PCB terminal raising cage clamp

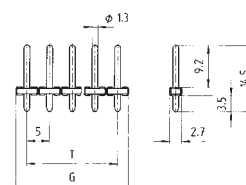
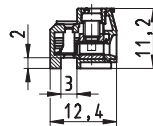
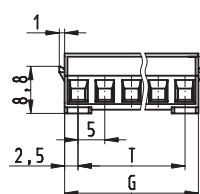
pitch 5.00 mm

IEC	250 V 2.5kV cat.3	8 A (40 °C) 3 A (70 °C)	0.14 - 1.5 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	8 A	22 -12 AWG
CSA	300 V	5 A	22 -12 AWG
Solder Pin	1.0 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8142 Z F2 OB pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

Part Number	Part Number
27.602.3253.0	
27.602.3353.0	
27.602.3453.0	
27.602.3553.0	
27.602.3653.0	
27.602.3753.0	
27.602.3853.0	
27.602.3953.0	
27.602.4053.0	
27.602.4153.0	
27.602.4253.0	
27.602.4353.0	
27.602.4453.0	
27.602.4553.0	
27.602.4653.0	

THR
box

Part Number	Part Number
Z5.530.0204.0	Z5.530.0214.0
Z5.530.0304.0	Z5.530.0314.0
Z5.530.0404.0	Z5.530.0414.0
Z5.530.0504.0	Z5.530.0514.0
Z5.530.0604.0	Z5.530.0614.0
Z5.530.0704.0	Z5.530.0714.0
Z5.530.0804.0	Z5.530.0814.0
Z5.530.0904.0	Z5.530.0914.0
Z5.530.1004.0	Z5.530.1014.0
Z5.530.1104.0	Z5.530.1114.0
Z5.530.1204.0	Z5.530.1214.0

THR
tape on reel

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

PCB screw terminal series 8142, two part PCB terminal raising cage clamp

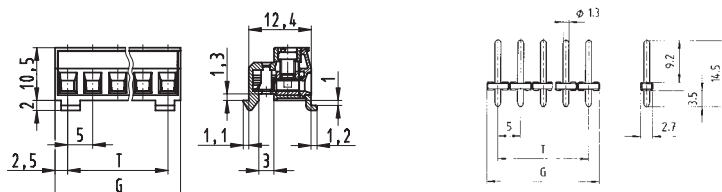
pitch 5.00 mm

IEC	250 V 2.5kV cat.3	8 A (40 °C) 3 A (70 °C)	0.14 - 1.5 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	8 A	22 -12 AWG
CSA	300 V	5 A	22 -12 AWG
Solder Pin	1.0 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	6 mm		
Screw Size	M3		



See Technical Data section for screw material options

Approvals:



series 8142 Z RF OB pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

Part Number	Part Number
27.602.6253.0	
27.602.6353.0	
27.602.6453.0	
27.602.6553.0	
27.602.6653.0	
27.602.6753.0	
27.602.6853.0	
27.602.6953.0	
27.602.7053.0	
27.602.7153.0	
27.602.7253.0	
27.602.7353.0	
27.602.7453.0	
27.602.7553.0	
27.602.7653.0	

THR
box

Part Number	Part Number
Z5.530.0204.0	Z5.530.0214.0
Z5.530.0304.0	Z5.530.0314.0
Z5.530.0404.0	Z5.530.0414.0
Z5.530.0504.0	Z5.530.0514.0
Z5.530.0604.0	Z5.530.0614.0
Z5.530.0704.0	Z5.530.0714.0
Z5.530.0804.0	Z5.530.0814.0
Z5.530.0904.0	Z5.530.0914.0
Z5.530.1004.0	Z5.530.1014.0
Z5.530.1104.0	Z5.530.1114.0
Z5.530.1204.0	Z5.530.1214.0

THR
tape on reel

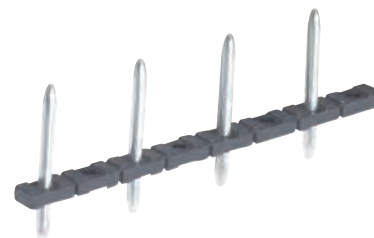
Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

PCB screw terminal series 8142, two part PCB terminal wire guard clamp

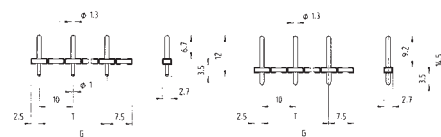
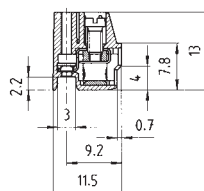
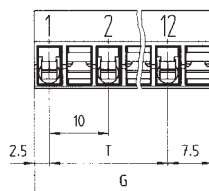
pitch 10.00 mm

IEC	500 V 8kV cat.3 800 V 8kV cat.2 1000 V 8kV cat.1	8 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
UL	300 V	15 A	22 -12 AWG
CSA	300 V	15 A	22 -12 AWG
Solder Pin	1.0 x 1.0 mm		
Drill Hole	1.3 mm		
Wire Strip Length	5 mm		
Screw Size	M2.5		



See Technical Data section for screw material options

Approvals:



series 8142 pitch 10.00 mm

Box Qty	G	T	Pole
50	20	10	2
50	30	20	3
50	40	30	4
50	50	40	5
50	60	50	6
50	70	60	7
50	80	70	8

unmarked

marked

Grey
pin Ø 1.0 mmBlack
pin Ø 1.3 mm

Part Number	Part Number	Part Number	Part Number
25.603.1253.0	25.601.1253.0	Z5.530.6225.0	Z5.530.8225.0
25.603.1353.0	25.601.1353.0	Z5.530.6325.0	Z5.530.8325.0
25.603.1453.0	25.601.1453.0	Z5.530.6425.0	Z5.530.8425.0
25.603.1553.0	25.601.1553.0	Z5.530.6525.0	Z5.530.8525.0
25.603.1653.0	25.601.1653.0	Z5.530.6625.0	Z5.530.8625.0
25.603.1753.0	25.601.1753.0	Z5.530.6725.0	Z5.530.8725.0
25.603.1853.0	25.601.1853.0	Z5.530.6825.0	Z5.530.8825.0

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number



Systems feature

- plug in system is simple to maintain
- screw termination by means of rising cage clamp for security
- screw connection is easy to operate
- spring clamp connection for speed
- simple, clear and secure method of connecting and disconnecting
- multiple pole configuration
- connection of single core and finely stranded conductors up to 1.5 mm² and 2.5 mm²
- metric and imperial pitch options
- clamping with TOP connection



Applications

- designed for frequent and ongoing equipment maintenance and system changes as the pluggable terminal connector and PCB header are easily connected and disconnected
- pre-assembled wire harnesses can be easily and quickly connected for fast system commissioning

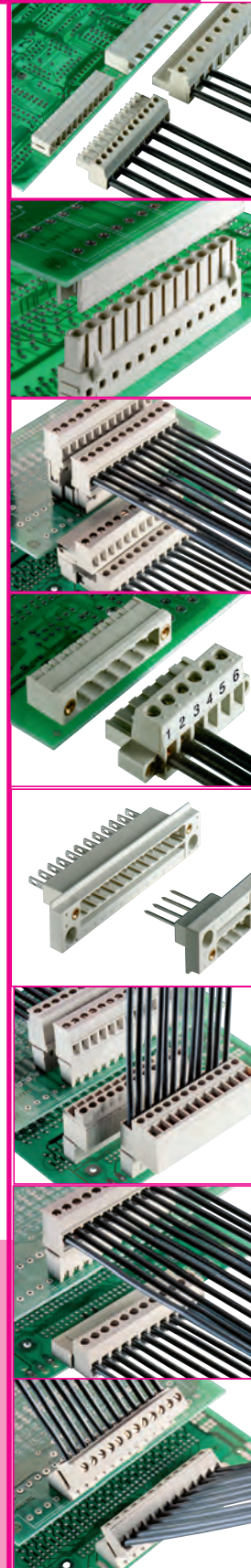
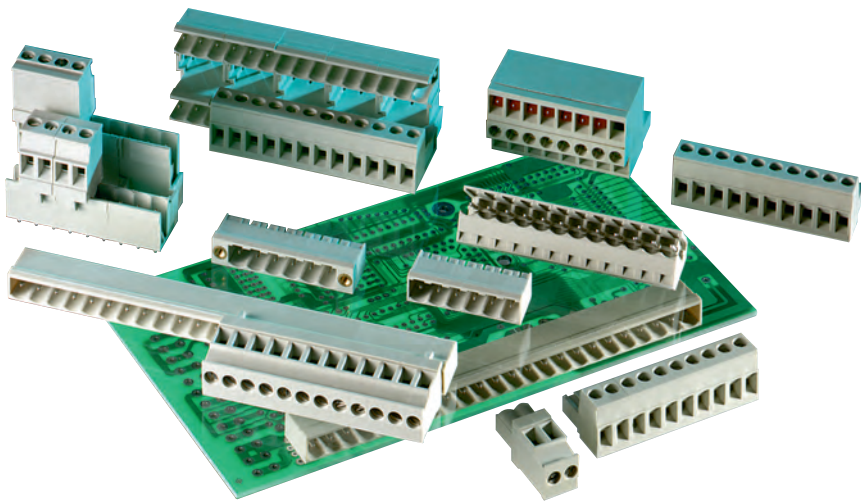


Type range

- 2 – 24 poles
- connection of conductors horizontal and vertical in relation to the PCB
- conductors can be connected at a 45° or 35°
- multipole blocks
- secure connection



Pluggable PCB Terminals



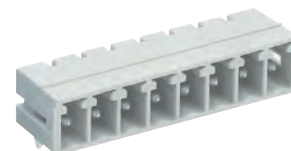
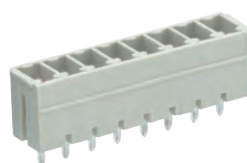
PCB headers series 8513 / 8813

pitch 3.50 / 3.81 mm

IEC	125 V	2.5kV cat.3	8 A
	250 V	2.5kV cat.2	
	690 V	2.5kV cat.1	
UL	300 V		8 A
CSA	300 V		5 A

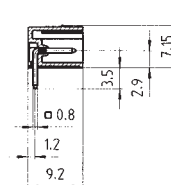
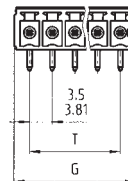
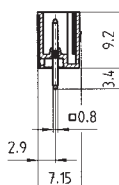
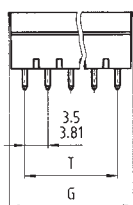
Solder Pin
Drill Hole

0.8 x 0.8 mm
1.2 mm



See Technical Data section for screw material options

Approvals:



series 8513 S G/W pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

unmarked

Part Number	Part Number
25.646.0253.0	
25.646.0353.0	
25.646.0453.0	
25.646.0553.0	
25.646.0653.0	
25.646.0753.0	
25.646.0853.0	
25.646.0953.0	
25.646.1053.0	
25.646.1153.0	
25.646.1253.0	
25.646.1353.0	
25.646.1453.0	
25.646.1553.0	
25.646.1653.0	

unmarked

Part Number	Part Number
25.647.0253.0	
25.647.0353.0	
25.647.0453.0	
25.647.0553.0	
25.647.0653.0	
25.647.0753.0	
25.647.0853.0	
25.647.0953.0	
25.647.1053.0	
25.647.1153.0	
25.647.1253.0	
25.647.1353.0	
25.647.1453.0	
25.647.1553.0	
25.647.1653.0	

series 8813 S G/W pitch 3.81 mm

Box Qty	G	T	Pole
100	9.01	3.81	2
100	12.82	7.62	3
50	16.63	11.43	4
50	20.44	15.24	5
50	24.25	19.05	6
50	28.06	22.86	7
50	31.87	26.67	8
50	35.68	30.48	9
50	39.49	34.29	10
50	43.30	38.10	11
50	47.11	41.91	12
50	50.92	45.72	13
50	54.73	49.53	14
50	58.54	53.34	15
50	62.35	57.15	16

unmarked

Part Number	Part Number
25.626.0253.0	
25.626.0353.0	
25.626.0453.0	
25.626.0553.0	
25.626.0653.0	
25.626.0753.0	
25.626.0853.0	
25.626.0953.0	
25.626.1053.0	
25.626.1153.0	
25.626.1253.0	
25.626.1353.0	
25.626.1453.0	
25.626.1553.0	
25.626.1653.0	

unmarked

Part Number	Part Number
25.627.0253.0	
25.627.0353.0	
25.627.0453.0	
25.627.0553.0	
25.627.0653.0	
25.627.0753.0	
25.627.0853.0	
25.627.0953.0	
25.627.1053.0	
25.627.1153.0	
25.627.1253.0	
25.627.1353.0	
25.627.1453.0	
25.627.1553.0	
25.627.1653.0	

PCB headers series 8513, reflow process

pitch 3.50 mm

IEC 125 V 2.5kV 8 A

UL 300 V 8 A

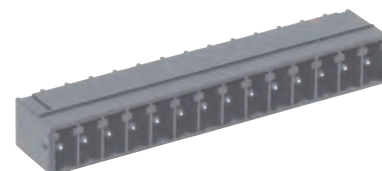
CSA 300 V 5 A

Solder Pin

Drill Hole

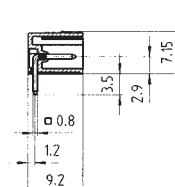
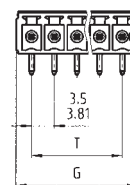
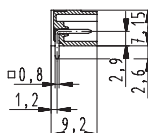
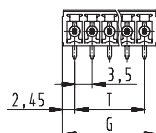
0.8 x 0.8 mm

1.2 mm



See Technical Data section for screw material options

Approvals:



series 8513S G/W THR OB pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

unmarked
boxunmarked
tape on reelunmarked
boxunmarked
tape on reel

Part Number	Part Number	Part Number	Part Number
25.646.0206.0	25.646.0216.0	25.647.0206.0	25.647.0216.0
25.646.0306.0	25.646.0316.0	25.647.0306.0	25.647.0316.0
25.646.0406.0	25.646.0416.0	25.647.0406.0	25.647.0416.0
25.646.0506.0	25.646.0516.0	25.647.0506.0	25.647.0516.0
25.646.0606.0	25.646.0616.0	25.647.0606.0	25.647.0616.0
25.646.0706.0	25.646.0716.0	25.647.0706.0	25.647.0716.0
25.646.0806.0	25.646.0816.0	25.647.0806.0	25.647.0816.0
25.646.0906.0	25.646.0916.0	25.647.0906.0	25.647.0916.0
25.646.1006.0	25.646.1016.0	25.647.1006.0	25.647.1016.0
25.646.1106.0	25.646.1116.0	25.647.1106.0	25.647.1116.0
25.646.1206.0	25.646.1216.0	25.647.1206.0	25.647.1216.0
25.646.1306.0	25.646.1316.0	25.647.1306.0	25.647.1316.0
25.646.1406.0	25.646.1416.0	25.647.1406.0	25.647.1416.0
25.646.1506.0	25.646.1516.0	25.647.1506.0	25.647.1516.0
25.646.1606.0	25.646.1616.0	25.647.1606.0	25.647.1616.0

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

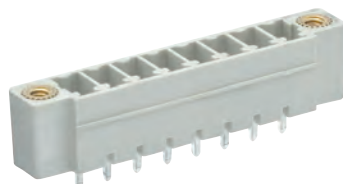
PCB headers series 8513 / 8813

pitch 3.50 / 3.81 mm

IEC	125 V 2.5kV cat.3 250 V 2.5kV cat.2 690 V 2.5kV cat.1	8 A
UL	300 V	8 A
CSA	300 V	5 A

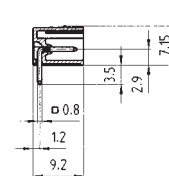
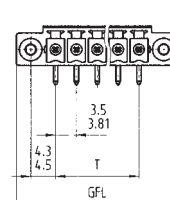
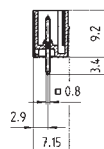
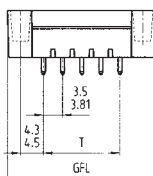
Solder Pin
Drill Hole

0.8 x 0.8 mm
1.2 mm



See Technical Data section for screw material options

Approvals:



series 8513 S GF/WF pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

unmarked

Part Number	Part Number
25.646.3253.0	
25.646.3353.0	
25.646.3453.0	
25.646.3553.0	
25.646.3653.0	
25.646.3753.0	
25.646.3853.0	
25.646.3953.0	
25.646.4053.0	
25.646.4153.0	
25.646.4253.0	
25.646.4353.0	
25.646.4453.0	
25.646.4553.0	
25.646.4653.0	

unmarked

Part Number	Part Number
25.647.3253.0	
25.647.3353.0	
25.647.3453.0	
25.647.3553.0	
25.647.3653.0	
25.647.3753.0	
25.647.3853.0	
25.647.3953.0	
25.647.4053.0	
25.647.4153.0	
25.647.4253.0	
25.647.4353.0	
25.647.4453.0	
25.647.4553.0	
25.647.4653.0	

series 8813 S GF/WF pitch 3.81 mm

Box Qty	G	T	Pole
100	9.01	3.81	2
100	12.82	7.62	3
50	16.63	11.43	4
50	20.44	15.24	5
50	24.25	19.05	6
50	28.06	22.86	7
50	31.87	26.67	8
50	35.68	30.48	9
50	39.49	34.29	10
50	43.30	38.10	11
50	47.11	41.91	12
50	50.92	45.72	13
50	54.73	49.53	14
50	58.54	53.34	15
50	62.35	57.15	16

unmarked

Part Number	Part Number
25.626.3253.0	
25.626.3353.0	
25.626.3453.0	
25.626.3553.0	
25.626.3653.0	
25.626.3753.0	
25.626.3853.0	
25.626.3953.0	
25.626.4053.0	
25.626.4153.0	
25.626.4253.0	
25.626.4353.0	
25.626.4453.0	
25.626.4553.0	
25.626.4653.0	

unmarked

Part Number	Part Number
25.627.3253.0	
25.627.3353.0	
25.627.3453.0	
25.627.3553.0	
25.627.3653.0	
25.627.3753.0	
25.627.3853.0	
25.627.3953.0	
25.627.4053.0	
25.627.4153.0	
25.627.4253.0	
25.627.4353.0	
25.627.4453.0	
25.627.4553.0	
25.627.4653.0	

PCB headers series 8513

pitch 3.50 mm

IEC 125 V 2.5kV cat.3 8 A
250 V 2.5kV cat.2

UL 300 V 8 A

CSA 300 V 5 A

Solder Pin

Drill Hole

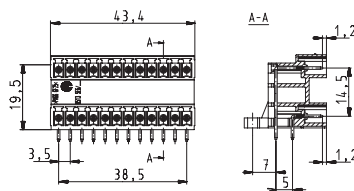
0.8 x 0.8 mm

1.2 mm



See Technical Data section for screw material options

Approvals:



series 8513 SEG pitch 3.50 mm

unmarked

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100	8.40	3.50	2	27.647.1253.1			
100	11.90	7.00	3	27.647.1353.1			
50	15.40	10.50	4	27.647.1453.1			
50	18.90	14.00	5	27.647.1553.1			
50	22.40	17.50	6	27.647.1653.1			
50	25.90	21.00	7	27.647.1753.1			
50	29.40	24.50	8	27.647.1853.1			
50	32.90	28.00	9	27.647.1953.1			
50	36.40	31.50	10	27.647.2053.1			
50	39.90	35.00	11	27.647.2153.1			
50	43.40	38.50	12	27.647.2253.1			
50	46.90	42.00	13	27.647.2353.1			
50	50.40	45.50	14	27.647.2453.1			
50	53.90	49.00	15	27.647.2553.1			
50	57.40	52.50	16	27.647.2653.1			

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

PCB headers series 8513, reflow process

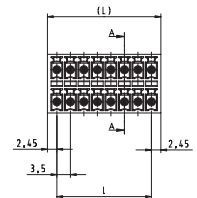
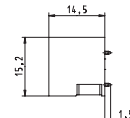
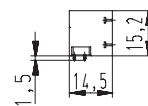
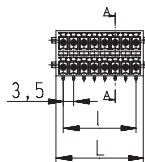
pitch 3.50 mm

IEC	160 V 2.5kV cat.3	8 A
UL	300 V	8 A
CSA	300 V	5 A
Solder Pin	0.8 x 0.8 mm	
Drill Hole	1.2 mm	



See Technical Data section for screw material options

Approvals:



series 8513 SEGN W/G THR OB pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

Without locking flange
Box

With locking flange
Box

Without locking flange
Box

With locking flange
Box

Part Number	Part Number	Part Number	Part Number
25.657.0208.0	25.657.6208.0	25.656.0208.0	25.656.6208.0
25.657.0308.0	25.657.6308.0	25.656.0308.0	25.656.6308.0
25.657.0408.0	25.657.6408.0	25.656.0408.0	25.656.6408.0
25.657.0508.0	25.657.6508.0	25.656.0508.0	25.656.6508.0
25.657.0608.0	25.657.6608.0	25.656.0608.0	25.656.6608.0
25.657.0708.0	25.657.6708.0	25.656.0708.0	25.656.6708.0
25.657.0808.0	25.657.6808.0	25.656.0808.0	25.656.6808.0
25.657.0908.0	25.657.6908.0	25.656.0908.0	25.656.6908.0
25.657.1008.0	25.657.7008.0	25.656.1008.0	25.656.7008.0
25.657.1108.0	25.657.7108.0	25.656.1108.0	25.656.7108.0
25.657.1208.0	25.657.7208.0	25.656.1208.0	25.656.7208.0
25.657.1308.0	25.657.7308.0	25.656.1308.0	25.656.7308.0
25.657.1408.0	25.657.7408.0	25.656.1408.0	25.656.7408.0
25.657.1508.0	25.657.7508.0	25.656.1508.0	25.656.7508.0
25.657.1608.0	25.657.7608.0	25.656.1608.0	25.656.7608.0

Box Qty G T Pole

Part Number

Part Number

Part Number

Part Number

PCB headers series 8513, reflow process

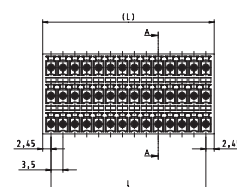
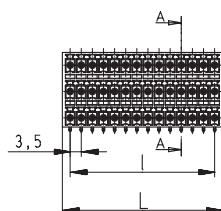
pitch 3.50 mm

IEC	160 V 2.5kV cat.3	8 A
UL	300 V	8 A
CSA	300 V	5 A
Solder Pin	0.8 x 0.8 mm	
Drill Hole	1.2 mm	



See Technical Data section for screw material options

Approvals:



series 8513 SDGN W/G THR OB pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

Without locking flange
BoxWith locking flange
BoxWithout locking flange
BoxWith locking flange
Box

Part Number	Part Number	Part Number	Part Number
25.667.0208.0	25.667.6208.0	25.666.0208.0	25.666.6208.0
25.667.0308.0	25.667.6308.0	25.666.0308.0	25.666.6308.0
25.667.0408.0	25.667.6408.0	25.666.0408.0	25.666.6408.0
25.667.0508.0	25.667.6508.0	25.666.0508.0	25.666.6508.0
25.667.0608.0	25.667.6608.0	25.666.0608.0	25.666.6608.0
25.667.0708.0	25.667.6708.0	25.666.0708.0	25.666.6708.0
25.667.0808.0	25.667.6808.0	25.666.0808.0	25.666.6808.0
25.667.0908.0	25.667.6908.0	25.666.0908.0	25.666.6908.0
25.667.1008.0	25.667.7008.0	25.666.1008.0	25.666.7008.0
25.667.1108.0	25.667.7108.0	25.666.1108.0	25.666.7108.0
25.667.1208.0	25.667.7208.0	25.666.1208.0	25.666.7208.0
25.667.1308.0	25.667.7308.0	25.666.1308.0	25.666.7308.0
25.667.1408.0	25.667.7408.0	25.666.1408.0	25.666.7408.0
25.667.1508.0	25.667.7508.0	25.666.1508.0	25.666.7508.0
25.667.1608.0	25.667.7608.0	25.666.1608.0	25.666.7608.0

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

PCB headers series 8113 / 8213

pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3	12 A
	400 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

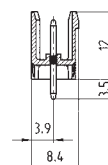
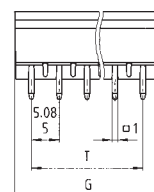
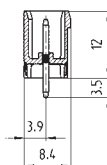
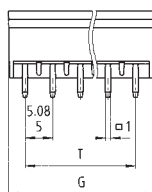
Solder Pin
Drill Hole

1.0 x 1.0 mm
1.4 mm



See Technical Data section for screw material options

Approvals:



series 8113 S G/GOF pitch 5.00 mm

Box Qty	G	T	Pole
100	10.16	5	2
100	15.24	10	3
50	20.32	15	4
50	25.40	20	5
50	30.48	25	6
50	35.56	30	7
50	40.64	35	8
50	45.72	40	9
50	50.80	45	10
50	55.88	50	11
50	60.96	55	12
50	66.04	60	13
50	71.12	65	14
50	76.20	70	15
50	81.28	75	16

unmarked
closed version

Part Number	Part Number
25.330.3253.0	
25.330.3353.0	
25.330.3453.0	
25.330.3553.0	
25.330.3653.0	
25.330.3753.0	
25.330.3853.0	
25.330.3953.0	
25.330.4053.0	
25.330.4153.0	
25.330.4253.0	
25.330.4353.0	
25.330.4453.0	
25.330.4553.0	
25.330.4653.0	

unmarked
open version

Part Number	Part Number
99.202.9996.0	
99.203.9996.0	
99.204.9996.0	
99.205.9996.0	
99.206.9996.0	
99.207.9996.0	
99.208.9996.0	
99.209.9996.0	
99.210.9996.0	
99.211.9996.0	
99.212.9996.0	
99.213.9996.0	
99.214.9996.0	
99.215.9996.0	
99.216.9996.0	

series 8213 S G/GOF pitch 5.08 mm

Box Qty	G	T	Pole
100	11.56	5.08	2
100	16.64	10.16	3
50	21.72	15.24	4
50	26.80	20.32	5
50	31.88	25.40	6
50	36.96	30.48	7
50	42.04	35.56	8
50	47.12	40.64	9
50	52.20	45.72	10
50	57.28	50.80	11
50	62.36	55.88	12
50	67.44	60.96	13
50	72.52	66.04	14
50	77.60	71.12	15
50	82.68	76.20	16

unmarked
closed version

Part Number	Part Number
25.350.3253.0	
25.350.3353.0	
25.350.3453.0	
25.350.3553.0	
25.350.3653.0	
25.350.3753.0	
25.350.3853.0	
25.350.3953.0	
25.350.4053.0	
25.350.4153.0	
25.350.4253.0	
25.350.4353.0	
25.350.4453.0	
25.350.4553.0	
25.350.4653.0	

unmarked
open version

Part Number	Part Number
99.232.9996.1	
99.233.9996.1	
99.234.9996.1	
99.235.9996.1	
99.236.9996.1	
99.237.9996.1	
99.238.9996.1	
99.239.9996.1	
99.240.9996.1	
99.241.9996.1	
99.242.9996.1	
99.243.9996.1	
99.244.9996.1	
99.245.9996.1	
99.246.9996.1	

PCB headers series 8113 / 8213

pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3	12 A
	400 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

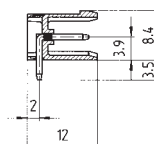
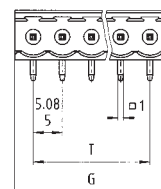
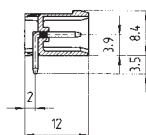
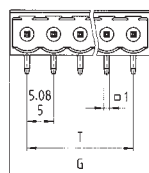
Solder Pin
Drill Hole

1.0 x 1.0 mm
1.4 mm



See Technical Data section for screw material options

Approvals:



series 8113 S W/WOF pitch 5.00 mm

Box Qty	G	T	Pole
100	11.40	5	2
100	16.40	10	3
50	21.40	15	4
50	26.40	20	5
50	31.40	25	6
50	36.40	30	7
50	41.40	35	8
50	46.40	40	9
50	51.40	45	10
50	56.40	50	11
50	61.40	55	12
50	66.40	60	13
50	71.40	65	14
50	76.40	70	15
50	81.40	75	16

unmarked
closed version

Part Number	Part Number
25.332.3253.0	
25.332.3353.0	
25.332.3453.0	
25.332.3553.0	
25.332.3653.0	
25.332.3753.0	
25.332.3853.0	
25.332.3953.0	
25.332.4053.0	
25.332.4153.0	
25.332.4253.0	
25.332.4353.0	
25.332.4453.0	
25.332.4553.0	
25.332.4653.0	

unmarked
open version

Part Number	Part Number
99.262.9996.0	
99.263.9996.0	
99.264.9996.0	
99.265.9996.0	
99.266.9996.0	
99.267.9996.0	
99.268.9996.0	
99.269.9996.0	
99.270.9996.0	
99.271.9996.0	
99.272.9996.0	
99.273.9996.0	
99.274.9996.0	
99.275.9996.0	
99.276.9996.0	

series 8213 S W/WOF pitch 5.08 mm

Box Qty	G	T	Pole
100	11.56	5.08	2
100	16.64	10.16	3
50	21.72	15.24	4
50	26.80	20.32	5
50	31.88	25.40	6
50	36.96	30.48	7
50	42.04	35.56	8
50	47.12	40.64	9
50	52.20	45.72	10
50	57.28	50.80	11
50	62.36	55.88	12
50	67.44	60.96	13
50	72.52	66.04	14
50	77.60	71.12	15
50	82.68	76.20	16

unmarked
closed version

Part Number	Part Number
25.352.3253.0	
25.352.3353.0	
25.352.3453.0	
25.352.3553.0	
25.352.3653.0	
25.352.3753.0	
25.352.3853.0	
25.352.3953.0	
25.352.4053.0	
25.352.4153.0	
25.352.4253.0	
25.352.4353.0	
25.352.4453.0	
25.352.4553.0	
25.352.4653.0	

unmarked
open version

Part Number	Part Number
99.202.9996.2	
99.203.9996.2	
99.204.9996.2	
99.205.9996.2	
99.206.9996.2	
99.207.9996.2	
99.208.9996.2	
99.209.9996.2	
99.210.9996.2	
99.211.9996.2	
99.212.9996.2	
99.213.9996.2	
99.214.9996.2	
99.215.9996.2	
99.216.9996.2	

PCB header series 8113 / 8213

pitch 5.00 / 5.08 mm

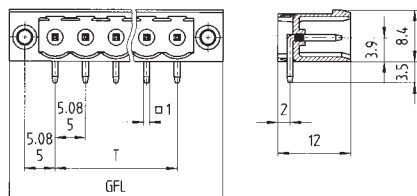
IEC	250 V 4kV cat.3	12 A
	400 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

Solder Pin	1.0 x 1.0 mm
Drill Hole	1.4 mm



See Technical Data section for screw material options

Approvals:



series 8113 S WF pitch 5.00 mm

unmarked
with screw flange

Box Qty	GFL	T	Pole
100	20	5	2
100	25	10	3
50	30	15	4
50	35	20	5
50	40	25	6
50	45	30	7
50	50	35	8
50	55	40	9
50	60	45	10
50	65	50	11
50	70	55	12
50	75	60	13
50	80	65	14
50	85	70	15
50	90	75	16

Part Number	Part Number	Part Number	Part Number
25.339.3253.0			
25.339.3353.0			
25.339.3453.0			
25.339.3553.0			
25.339.3653.0			
25.339.3753.0			
25.339.3853.0			
25.339.3953.0			
25.339.4053.0			
25.339.4153.0			
25.339.4253.0			
25.339.4353.0			
25.339.4453.0			
25.339.4553.0			
25.339.4653.0			

series 8213 S WF pitch 5.08 mm

unmarked

Box Qty	GFL	T	Pole
100	20.32	5.08	2
100	25.40	10.16	3
50	30.48	15.24	4
50	35.56	20.32	5
50	40.64	25.40	6
50	45.72	30.48	7
50	50.80	35.56	8
50	55.88	40.64	9
50	60.96	45.72	10
50	66.04	50.80	11
50	71.12	55.88	12
50	76.20	60.96	13
50	81.28	66.04	14
50	86.36	71.12	15
50	91.44	76.20	16

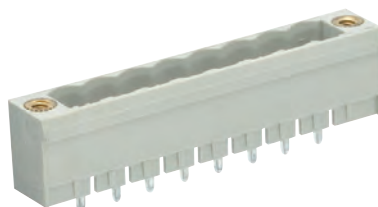
Part Number	Part Number	Part Number	Part Number
25.358.3253.0			
25.358.3353.0			
25.358.3453.0			
25.358.3553.0			
25.358.3653.0			
25.358.3753.0			
25.358.3853.0			
25.358.3953.0			
25.358.4053.0			
25.358.4153.0			
25.358.4253.0			
25.358.4353.0			
25.358.4453.0			
25.358.4553.0			
25.358.4653.0			

PCB headers series 8113 / 8213

pitch 5.00 / 5.08 mm

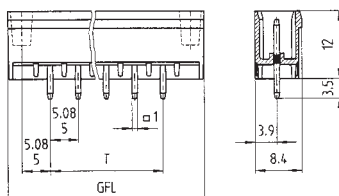
IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A
UL	300 V	15 A
CSA	300 V	15 A

Solder Pin	1.0 x 1.0 mm
Drill Hole	1.4 mm



See Technical Data section for screw material options

Approvals:



series 8113 S GF pitch 5.00 mm

Box Qty	GFL	T	Pole
100	20	5	2
100	25	10	3
50	30	15	4
50	35	20	5
50	40	25	6
50	45	30	7
50	50	35	8
50	55	40	9
50	60	45	10
50	65	50	11
50	70	55	12
50	75	60	13
50	80	65	14
50	85	70	15
50	90	75	16

unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.338.3253.0			
25.338.3353.0			
25.338.3453.0			
25.338.3553.0			
25.338.3653.0			
25.338.3753.0			
25.338.3853.0			
25.338.3953.0			
25.338.4053.0			
25.338.4153.0			
25.338.4253.0			
25.338.4353.0			
25.338.4453.0			
25.338.4553.0			
25.338.4653.0			

series 8213 S GF pitch 5.08 mm

Box Qty	GFL	T	Pole
100	20.32	5.08	2
100	25.40	10.16	3
50	30.48	15.24	4
50	35.56	20.32	5
50	40.64	25.40	6
50	45.72	30.48	7
50	50.80	35.56	8
50	55.88	40.64	9
50	60.96	45.72	10
50	66.04	50.80	11
50	71.12	55.88	12
50	76.20	60.96	13
50	81.28	66.04	14
50	86.36	71.12	15
50	91.44	76.20	16

unmarked

Part Number	Part Number	Part Number	Part Number
25.359.3253.0			
25.359.3353.0			
25.359.3453.0			
25.359.3553.0			
25.359.3653.0			
25.359.3753.0			
25.359.3853.0			
25.359.3953.0			
25.359.4053.0			
25.359.4153.0			
25.359.4253.0			
25.359.4353.0			
25.359.4453.0			
25.359.4553.0			
25.359.4653.0			

PCB headers series 8113 / 8213, reflow process

pitch 5.00 / 5.08 mm

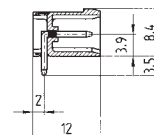
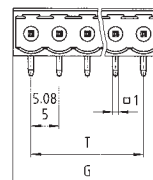
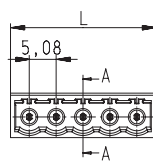
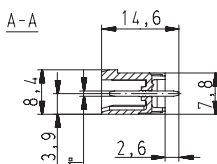
IEC	250 V 4kV cat.3	12 A
UL	300 V	12 A
CSA	300 V	12 A

Solder Pin 1.0 x 1.0 mm
Drill Hole 1.5 mm



See Technical Data section for screw material options

Approvals:



series 8113 S G/W THR OB pitch 5.00 mm

Box Qty	G	T	Pole
100	10.16	5	2
100	15.24	10	3
50	20.32	15	4
50	25.40	20	5
50	30.48	25	6
50	35.56	30	7
50	40.64	35	8
50	45.72	40	9
50	50.80	45	10
50	55.88	50	11
50	60.96	55	12
50	66.04	60	13
50	71.12	65	14
50	76.20	70	15
50	81.28	75	16

		unmarked box	unmarked tape on reel
Part Number	Part Number	Part Number	Part Number
		25.332.3206.0	25.332.3216.0
		25.332.3306.0	25.332.3316.0
		25.332.3406.0	25.332.3416.0

series 8213 S G/W THR OB pitch 5.08 mm

Box Qty	G	T	Pole
100	11.36	5.08	2
100	16.44	10.16	3
50	21.52	15.24	4
50	26.60	20.32	5
50	31.68	25.40	6
50	36.76	30.48	7
50	41.84	35.56	8
50	46.92	40.64	9
50	52.00	45.72	10
50	57.08	50.80	11
50	62.19	55.88	12
50	67.24	60.96	13
50	72.32	66.04	14
50	77.40	71.12	15
50	82.48	76.20	16

unmarked box	unmarked tape on reel	unmarked box	unmarked tape on reel
Part Number	Part Number	Part Number	Part Number
25.350.3206.0	25.350.3216.0	25.352.3206.0	25.352.3216.0
25.350.3306.0	25.350.3316.0	25.352.3306.0	25.352.3316.0
25.350.3406.0	25.350.3416.0	25.352.3406.0	25.352.3416.0
25.350.3506.0	25.350.3516.0	25.352.3506.0	25.352.3516.0
25.350.3606.0	25.350.3616.0	25.352.3606.0	25.352.3616.0
25.350.3706.0	25.350.3716.0	25.352.3706.0	25.352.3716.0
25.350.3806.0	25.350.3816.0	25.352.3806.0	25.352.3816.0
25.350.3906.0	25.350.3916.0	25.352.3906.0	25.352.3916.0
25.350.4006.0	25.350.4016.0	25.352.4006.0	25.352.4016.0
25.350.4106.0	25.350.4116.0	25.352.4106.0	25.352.4116.0
25.350.4206.0	25.350.4216.0	25.352.4206.0	25.352.4216.0
25.350.4306.0	25.350.4316.0	25.352.4306.0	25.352.4316.0
25.350.4406.0	25.350.4416.0	25.352.4406.0	25.352.4416.0
25.350.4506.0	25.350.4516.0	25.352.4506.0	25.352.4516.0
25.350.4606.0	25.350.4616.0	25.352.4606.0	25.352.4616.0

PCB headers series 8213, reflow process

pitch 5.08 mm

IEC	250 V 4kV cat.3	12 A
UL	300 V	12 A
CSA	300 V	12 A

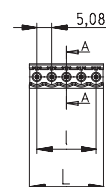
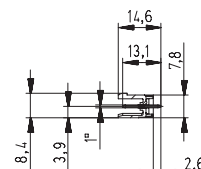
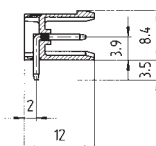
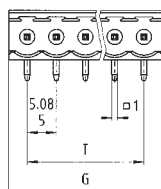
Solder Pin
Drill Hole

1.0 x 1.0 mm
1.5 mm



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

series 8213 S GOF / WOF THR pitch 5.08 mm

Box Qty	G	T	Pole
100	11.36	5.08	2
100	16.44	10.16	3
50	21.52	15.24	4
50	26.60	20.32	5
50	31.68	25.40	6
50	36.76	30.48	7
50	41.84	35.56	8
50	46.92	40.64	9
50	52.00	45.72	10
50	57.08	50.80	11
50	62.19	55.88	12
50	67.24	60.96	13
50	72.32	66.04	14
50	77.40	71.12	15
50	82.48	76.20	16

open version box	open version tape on reel	open version box	open version tape on reel
Part Number	Part Number	Part Number	Part Number
26.352.3206.0	26.352.3216.0	26.350.3206.0	26.350.3216.0
26.352.3306.0	26.352.3316.0	26.350.3306.0	26.350.3316.0
26.352.3406.0	26.352.3416.0	26.350.3406.0	26.350.3416.0
26.352.3506.0	26.352.3516.0	26.350.3506.0	26.350.3516.0
26.352.3606.0	26.352.3616.0	26.350.3606.0	26.350.3616.0
26.352.3706.0	26.352.3716.0	26.350.3706.0	26.350.3716.0
26.352.3806.0	26.352.3816.0	26.350.3806.0	26.350.3816.0
26.352.3906.0	26.352.3916.0	26.350.3906.0	26.350.3916.0
26.352.4006.0	26.352.4016.0	26.350.4006.0	26.350.4016.0
26.352.4106.0	26.352.4116.0	26.350.4106.0	26.350.4116.0
26.352.4206.0	26.352.4216.0	26.350.4206.0	26.350.4216.0
26.352.4306.0	26.352.4316.0	26.350.4306.0	26.350.4316.0
26.352.4406.0	26.352.4416.0	26.350.4406.0	26.350.4416.0
26.352.4506.0	26.352.4516.0	26.350.4506.0	26.350.4516.0
26.352.4606.0	26.352.4616.0	26.350.4606.0	26.350.4616.0

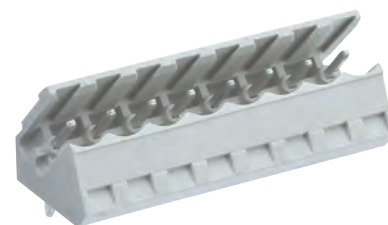
PCB headers series 8113 / 8213

pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3	12 A
	400 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

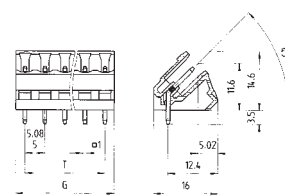
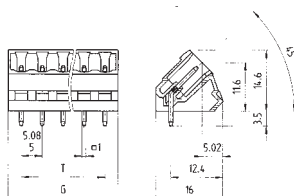
Solder Pin
Drill Hole

1.0 x 1.0 mm
1.4 mm



See Technical Data section for screw material options

Approvals:



series 8113 S S/S1 pitch 5.00 mm

Box Qty	G	T	Pole
100	11.20	5	2
100	16.20	10	3
50	21.20	15	4
50	26.20	20	5
50	31.20	25	6
50	36.20	30	7
50	41.20	35	8
50	46.20	40	9
50	51.20	45	10
50	56.20	50	11
50	61.20	55	12
50	66.20	60	13
50	71.20	65	14
50	76.20	70	15
50	81.20	75	16

unmarked
closed version

Part Number	Part Number
25.394.3253.0	
25.394.3353.0	
25.394.3453.0	
25.394.3553.0	
25.394.3653.0	
25.394.3753.0	
25.394.3853.0	
25.394.3953.0	
25.394.4053.0	
25.394.4153.0	
25.394.4253.0	
25.394.4353.0	
25.394.4453.0	
25.394.4553.0	
25.394.4653.0	

unmarked
open version

Part Number	Part Number
25.395.3253.0	
25.395.3353.0	
25.395.3453.0	
25.395.3553.0	
25.395.3653.0	
25.395.3753.0	
25.395.3853.0	
25.395.3953.0	
25.395.4053.0	
25.395.4153.0	
25.395.4253.0	
25.395.4353.0	
25.395.4453.0	
25.395.4553.0	
25.395.4653.0	

marked
open version

series 8213 S S/S1 pitch 5.08 mm

Box Qty	G	T	Pole
100	11.36	5.08	2
100	16.44	10.16	3
50	21.52	15.24	4
50	26.60	20.32	5
50	31.68	25.40	6
50	36.76	30.48	7
50	41.84	35.56	8
50	46.92	40.64	9
50	52.00	45.72	10
50	57.08	50.80	11
50	62.19	55.88	12
50	67.24	60.96	13
50	72.32	66.04	14
50	77.40	71.12	15
50	82.48	76.20	16

unmarked

Part Number	Part Number
25.396.3253.0	
25.396.3353.0	
25.396.3453.0	
25.396.3553.0	
25.396.3653.0	
25.396.3753.0	
25.396.3853.0	
25.396.3953.0	
25.396.4053.0	
25.396.4153.0	
25.396.4253.0	
25.396.4353.0	
25.396.4453.0	
25.396.4553.0	
25.396.4653.0	

unmarked
open version

Part Number	Part Number
25.397.3253.0	
25.397.3353.0	
25.397.3453.0	
25.397.3553.0	
25.397.3653.0	
25.397.3753.0	
25.397.3853.0	
25.397.3953.0	
25.397.4053.0	
25.397.4153.0	
25.397.4253.0	
25.397.4353.0	
25.397.4453.0	
25.397.4553.0	
25.397.4653.0	

marked
with insulating plate
with locating cams

PCB headers series 81-8213

pitch 5.00 / 5.08 mm

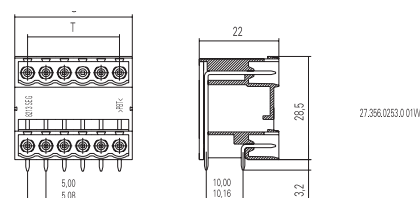
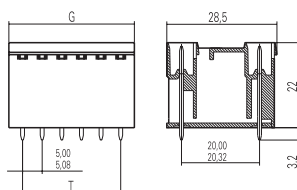
IEC	250 V 4kV/3 cat.3	10 A
	400 V 4kV/2 cat.3	
	400 V 4kV/2 cat.2	
UL	300 V	10 A
CSA	300 V	10 A

Solder Pin 1.0 x 1.0 mm
Drill Hole 1.4 mm



2000 piece minimum order quantity
See Technical Data section for screw material options

Approvals:



series 81-8213 SEG G/W pitch 5.00 mm

Box Qty	G	T	Pole
100	12	5	4
100	17	10	6
50	22	15	8
50	27	20	10
50	32	25	12
50	37	30	14
50	42	35	16
50	47	40	18
50	52	45	20
50	57	50	22
50	62	55	24
50	67	60	26
50	72	65	28
50	77	70	30
50	82	75	32

unmarked

Part Number	Part Number
27.334.0253.0	
27.334.0353.0	
27.334.0453.0	
27.334.0553.0	
27.334.0653.0	
27.334.0753.0	
27.334.0853.0	
27.334.0953.0	
27.334.1053.0	
27.334.1153.0	
27.334.1253.0	
27.334.1353.0	
27.334.1453.0	
27.334.1553.0	
27.334.1653.0	

unmarked

Part Number	Part Number
27.336.0253.0	
27.336.0353.0	
27.336.0453.0	
27.336.0553.0	
27.336.0653.0	
27.336.0753.0	
27.336.0853.0	
27.336.0953.0	
27.336.1053.0	
27.336.1153.0	
27.336.1253.0	
27.336.1353.0	
27.336.1453.0	
27.336.1553.0	
27.336.1653.0	

series 81-8213 SE G/W pitch 5.08 mm

Box Qty	G	T	Pole
100	12.16	5.08	4
100	17.24	10.16	6
50	22.32	15.24	8
50	27.40	20.32	10
50	32.48	25.40	12
50	37.56	30.48	14
50	42.64	35.56	16
50	47.72	40.64	18
50	52.80	45.72	20
50	57.88	50.80	22
50	62.96	55.88	24
50	68.04	60.96	26
50	73.12	66.04	28
50	78.20	71.12	30
50	83.28	76.20	32

unmarked

Part Number	Part Number
27.354.0253.0	
27.354.0353.0	
27.354.0453.0	
27.354.0553.0	
27.354.0653.0	
27.354.0753.0	
27.354.0853.0	
27.354.0953.0	
27.354.1053.0	
27.354.1153.0	
27.354.1253.0	
27.354.1353.0	
27.354.1453.0	
27.354.1553.0	
27.354.1653.0	

unmarked

Part Number	Part Number
27.356.0253.0	
27.356.0353.0	
27.356.0453.0	
27.356.0553.0	
27.356.0653.0	
27.356.0753.0	
27.356.0853.0	
27.356.0953.0	
27.356.1053.0	
27.356.1153.0	
27.356.1253.0	
27.356.1353.0	
27.356.1453.0	
27.356.1553.0	
27.356.1653.0	

PCB headers series 8313 / 8413

pitch 7.50 / 7.62 mm

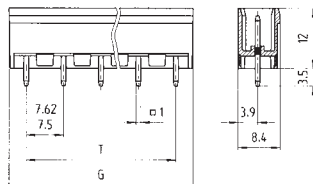
IEC	250 V 4kV cat.3	12 A
	400 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

Solder Pin	1.0 x 1.0 mm
Drill Hole	1.4 mm



See Technical Data section for screw material options

Approvals:



series 8313 S G pitch 7.50 mm

unmarked

Box Qty	G	T	Pole
100	14.20	7.50	2
100	21.70	15.00	3
50	29.20	22.50	4
50	36.70	30.00	5
50	44.20	37.50	6
50	51.70	45.00	7
50	59.20	52.50	8
50	66.70	60.00	9
50	74.20	67.50	10
50	81.70	75.00	11
50	89.20	82.50	12

Part Number	Part Number	Part Number	Part Number
25.370.3253.0			
25.370.3353.0			
25.370.3453.0			
25.370.3553.0			
25.370.3653.0			
25.370.3753.0			
25.370.3853.0			
25.370.3953.0			
25.370.4053.0			
25.370.4153.0			
25.370.4253.0			

series 8413 S G pitch 7.62 mm

unmarked

Box Qty	G	T	Pole
100	14.32	7.62	2
100	21.94	15.24	3
50	29.56	22.86	4
50	37.18	30.48	5
50	44.80	38.10	6
50	52.42	45.72	7
50	60.04	53.34	8
50	67.66	60.64	9
50	75.28	68.58	10
50	82.90	76.20	11
50	90.52	83.82	12

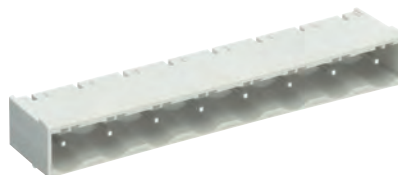
Part Number	Part Number	Part Number	Part Number
25.390.3253.0			
25.390.3353.0			
25.390.3453.0			
25.390.3553.0			
25.390.3653.0			
25.390.3753.0			
25.390.3853.0			
25.390.3953.0			
25.390.4053.0			
25.390.4153.0			
25.390.4253.0			

PCB headers series 8313 / 8413

pitch 7.50 / 7.62 mm

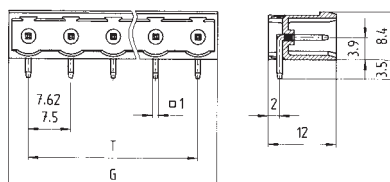
IEC	400 V 4kV cat.3	12 A
	690 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

Solder Pin	1.0 x 1.0 mm
Drill Hole	1.4 mm



See Technical Data section for screw material options

Approvals:



series 8313 S W pitch 7.50 mm

Box Qty	G	T	Pole
100	14.40	7.50	2
100	21.90	15.00	3
50	29.40	22.50	4
50	36.90	30.00	5
50	44.40	37.50	6
50	51.90	45.00	7
50	59.40	52.50	8
50	66.90	60.00	9
50	74.40	67.50	10
50	81.90	75.00	11
50	89.40	82.50	12

unmarked

Part Number	Part Number	Part Number	Part Number
25.372.3253.0			
25.372.3353.0			
25.372.3453.0			
25.372.3553.0			
25.372.3653.0			
25.372.3753.0			
25.372.3853.0			
25.372.3953.0			
25.372.4053.0			
25.372.4153.0			
25.372.4253.0			

series 8413 S W pitch 7.62 mm

Box Qty	G	T	Pole
100	14.52	7.62	2
100	22.14	15.24	3
50	29.76	22.86	4
50	37.38	30.48	5
50	45.00	38.10	6
50	52.62	45.72	7
50	60.24	53.34	8
50	67.86	60.96	9
50	75.48	68.58	10
50	83.10	76.20	11
50	90.72	83.82	12

unmarked

Part Number	Part Number	Part Number	Part Number
25.392.3253.0			
25.392.3353.0			
25.392.3453.0			
25.392.3553.0			
25.392.3653.0			
25.392.3753.0			
25.392.3853.0			
25.392.3953.0			
25.392.4053.0			
25.392.4153.0			
25.392.4253.0			

PCB headers series 8313 / 8413

pitch 7.50 / 7.62 mm

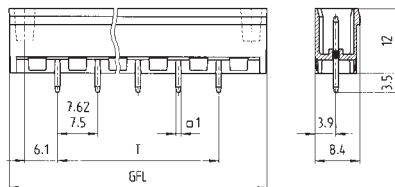
IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A
UL	300 V	15 A
CSA	300 V	15 A

Solder Pin	1.0 x 1.0 mm
Drill Hole	1.4 mm



See Technical Data section for screw material options

Approvals:



series 8313 S GF pitch 7.50 mm

Box Qty	GFL	T	Pole
100	25.54	7.50	2
100	33.04	15.00	3
50	40.54	22.50	4
50	48.04	30.00	5
50	55.54	37.50	6
50	63.04	45.00	7
50	70.54	52.50	8
50	78.04	60.00	9
50	85.54	67.50	10
50	93.04	75.00	11
50	100.54	82.50	12

unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.374.6253.0			
25.374.6353.0			
25.374.6453.0			
25.374.6553.0			
25.374.6653.0			
25.374.6753.0			
25.374.6853.0			
25.374.6953.0			
25.374.7053.0			
25.374.7153.0			
25.374.7253.0			

series 8413 S GF pitch 7.62 mm

Box Qty	GFL	T	Pole
100	25.66	7.62	2
100	33.25	15.24	3
50	40.90	22.86	4
50	48.52	30.48	5
50	56.14	38.10	6
50	63.76	45.72	7
50	71.38	53.34	8
50	79.00	60.64	9
50	86.62	68.58	10
50	94.24	76.20	11
50	101.86	83.82	12

unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.398.6253.0			
25.398.6353.0			
25.398.6453.0			
25.398.6553.0			
25.398.6653.0			
25.398.6753.0			
25.398.6853.0			
25.398.6953.0			
25.398.7053.0			
25.398.7153.0			
25.398.7253.0			

PCB headers series 8313 / 8413

pitch 7.50 / 7.62 mm

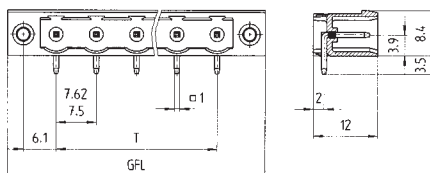
IEC	400 V 4kV cat.3	12 A
	690 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A

Solder Pin	1.0 x 1.0 mm
Drill Hole	1.4 mm



See Technical Data section for screw material options

Approvals:



series 8313 S WF pitch 7.50 mm

Box Qty	GFL	T	Pole
100	25.54	7.50	2
100	33.04	15.00	3
50	40.54	22.50	4
50	48.04	30.00	5
50	55.54	37.50	6
50	63.04	45.00	7
50	70.54	52.50	8
50	78.04	60.00	9
50	85.54	67.50	10
50	93.04	75.00	11
50	100.54	82.50	12

unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.374.2253.0			
25.374.2353.0			
25.374.2453.0			
25.374.2553.0			
25.374.2653.0			
25.374.2753.0			
25.374.2853.0			
25.374.2953.0			
25.374.3053.0			
25.374.3153.0			
25.374.3253.0			

series 8413 S WF pitch 7.62 mm

Box Qty	GFL	T	Pole
100	25.66	7.62	2
100	33.25	15.24	3
50	40.90	22.86	4
50	48.52	30.48	5
50	56.14	38.10	6
50	63.76	45.72	7
50	71.38	53.34	8
50	79.00	60.64	9
50	86.62	68.58	10
50	94.24	76.20	11
50	101.86	83.82	12

unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.398.2253.0			
25.398.2353.0			
25.398.2453.0			
25.398.2553.0			
25.398.2653.0			
25.398.2753.0			
25.398.2853.0			
25.398.2953.0			
25.398.3053.0			
25.398.3153.0			
25.398.3253.0			

Pluggable PCB terminals series 8513 / 8813, rising cage clamp system

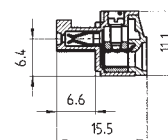
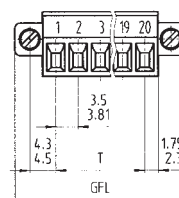
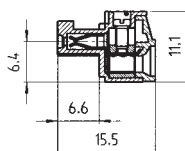
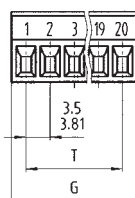
pitch 3.50 / 3.81 mm

IEC	125 V 2.5kV cat.3 250 V 2.5kV cat.2 690 V 2.5kV cat.1	8 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	8 A	30 - 16 AWG
CSA	300 V	5 A	22 - 14 AWG

Wire Strip Length	6.5 mm
Screw Size	M2

See Technical Data section for screw material options

Approvals:



series 8513 B pitch 3.50 mm

Box Qty	G	T	Pole
100	7.00	3.50	2
100	10.50	7.00	3
50	14.00	10.50	4
50	17.50	14.00	5
50	21.00	17.50	6
50	24.50	21.00	7
50	28.00	24.50	8
50	31.50	28.00	9
50	35.00	31.50	10
50	38.50	35.00	11
50	42.00	38.50	12
50	45.50	42.00	13
50	49.00	45.50	14
50	52.50	49.00	15
50	56.00	52.50	16

unmarked

marked

unmarked
with screw flange

unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.640.3253.0	25.640.0253.0	25.641.3253.0	25.641.0253.0
25.640.3353.0	25.640.0353.0	25.641.3353.0	25.641.0353.0
25.640.3453.0	25.640.0453.0	25.641.3453.0	25.641.0453.0
25.640.3553.0	25.640.0553.0	25.641.3553.0	25.641.0553.0
25.640.3653.0	25.640.0653.0	25.641.3653.0	25.641.0653.0
25.640.3753.0	25.640.0753.0	25.641.3753.0	25.641.0753.0
25.640.3853.0	25.640.0853.0	25.641.3853.0	25.641.0853.0
25.640.3953.0	25.640.0953.0	25.641.3953.0	25.641.0953.0
25.640.4053.0	25.640.1053.0	25.641.4053.0	25.641.1053.0
25.640.4153.0	25.640.1153.0	25.641.4153.0	25.641.1153.0
25.640.4253.0	25.640.1253.0	25.641.4253.0	25.641.1253.0
25.640.4353.0	25.640.1353.0	25.641.4353.0	25.641.1353.0
25.640.4453.0	25.640.1453.0	25.641.4453.0	25.641.1453.0
25.640.4553.0	25.640.1553.0	25.641.4553.0	25.641.1553.0
25.640.4653.0	25.640.1653.0	25.641.4653.0	25.641.1653.0

series 8813 B pitch 3.81 mm

Box Qty	G	T	Pole
100	8.41	3.81	2
100	12.22	7.62	3
50	16.03	11.43	4
50	19.84	15.24	5
50	23.65	19.05	6
50	27.46	22.86	7
50	31.27	26.67	8
50	35.08	30.48	9
50	38.89	34.29	10
50	42.70	38.10	11
50	46.51	41.91	12
50	50.32	45.72	13
50	54.13	49.53	14
50	57.94	53.34	15
50	61.75	57.15	16

unmarked

marked

unmarked
with screw flange

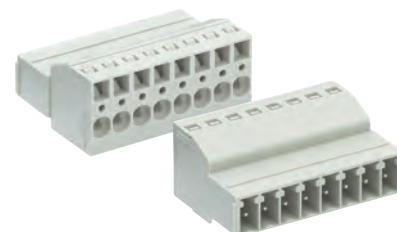
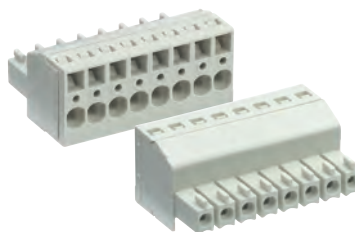
unmarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.620.3253.0	25.620.0253.0	25.621.3253.0	25.621.0253.0
25.620.3353.0	25.620.0353.0	25.621.3353.0	25.621.0353.0
25.620.3453.0	25.620.0453.0	25.621.3453.0	25.621.0453.0
25.620.3553.0	25.620.0553.0	25.621.3553.0	25.621.0553.0
25.620.3653.0	25.620.0653.0	25.621.3653.0	25.621.0653.0
25.620.3753.0	25.620.0753.0	25.621.3753.0	25.621.0753.0
25.620.3853.0	25.620.0853.0	25.621.3853.0	25.621.0853.0
25.620.3953.0	25.620.0953.0	25.621.3953.0	25.621.0953.0
25.620.4053.0	25.620.1053.0	25.621.4053.0	25.621.1053.0
25.620.4153.0	25.620.1153.0	25.621.4153.0	25.621.1153.0
25.620.4253.0	25.620.1253.0	25.621.4253.0	25.621.1253.0
25.620.4353.0	25.620.1353.0	25.621.4353.0	25.621.1353.0
25.620.4453.0	25.620.1453.0	25.621.4453.0	25.621.1453.0
25.620.4553.0	25.620.1553.0	25.621.4553.0	25.621.1553.0
25.620.4653.0	25.620.1653.0	25.621.4653.0	25.621.1653.0

Pluggable PCB terminals series 8513, spring clamp system inverted plug

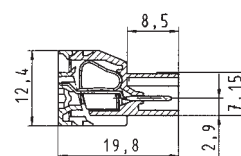
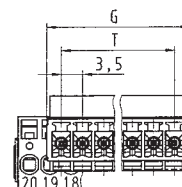
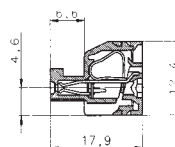
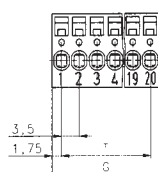
pitch 3.50 mm

IEC	125 V 2.5kV cat.3 250 V 2.5kV cat.2 690 V 2.5kV cat.1	8 A	0.14 – 1.5 mm ² (Stranded) 0.14 – 1.5 mm ² (Solid)
UL	300 V	8 A	30 - 16 AWG
CSA	300 V	8 A	22 - 14 AWG
Wire Strip Length			8 mm



See Technical Data section for screw material options

Approvals:



series 8513 BFK pitch 3.50 mm

Box Qty	G	T	Pole
100	10.85	3.50	2
100	15.85	7.00	3
50	20.85	10.50	4
50	25.85	14.00	5
50	30.85	17.50	6
50	35.85	21.00	7
50	40.85	24.50	8
50	45.85	28.00	9
50	50.85	31.50	10
50	55.85	35.00	11
50	60.85	38.50	12
50	65.85	42.00	13
50	70.85	45.50	14
50	75.85	49.00	15
50	80.85	52.50	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
25.630.3253.0	25.630.0253.0		
25.630.3353.0	25.630.0353.0		
25.630.3453.0	25.630.0453.0		
25.630.3553.0	25.630.0553.0		
25.630.3653.0	25.630.0653.0		
25.630.3753.0	25.630.0753.0		
25.630.3853.0	25.630.0853.0		
25.630.3953.0	25.630.0953.0		
25.630.4053.0	25.630.1053.0		
25.630.4153.0	25.630.1153.0		
25.630.4253.0	25.630.1253.0		
25.630.4353.0	25.630.1353.0		
25.630.4453.0	25.630.1453.0		
25.630.4553.0	25.630.1553.0		
25.630.4653.0	25.630.1653.0		

series 8513 SUFK pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
		25.642.3253.0	25.642.0253.0
		25.642.3353.0	25.642.0353.0
		25.642.3453.0	25.642.0453.0
		25.642.3553.0	25.642.0553.0
		25.642.3653.0	25.642.0653.0
		25.642.3753.0	25.642.0753.0
		25.642.3853.0	25.642.0853.0
		25.642.3953.0	25.642.0953.0
		25.642.4053.0	25.642.1053.0
		25.642.4153.0	25.642.1153.0
		25.642.4253.0	25.642.1253.0
		25.642.4353.0	25.642.1353.0
		25.642.4453.0	25.642.1453.0
		25.642.4553.0	25.642.1553.0
		25.642.4653.0	25.642.1653.0

Pluggable PCB terminals series 8513, spring cage connection

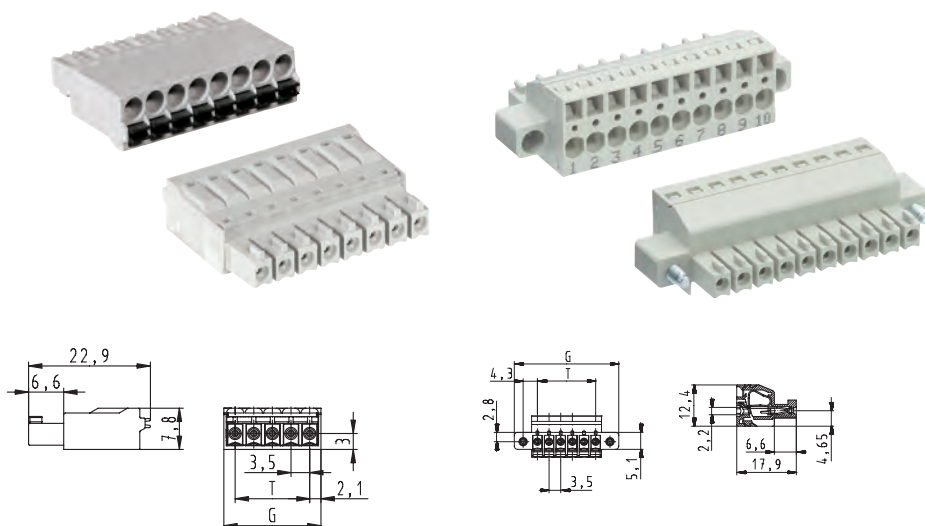
pitch 3.50 mm

IEC	125 V 2.5kV cat.3 250 V 2.5kV cat.2	8 A
UL	300 V	8 A
CSA	300 V	5 A

Wire Strip Length 8 mm

See Technical Data section for screw material options

Approvals:



series 8513 BS / BFK OB pitch 3.50 mm

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

unmarked

Part Number	Part Number
27.630.3253.0	
27.630.3353.0	
27.630.3453.0	
27.630.3553.0	
27.630.3653.0	
27.630.3753.0	
27.630.3853.0	
27.630.3953.0	
27.630.3953.0	
27.630.4153.0	
27.630.4253.0	
27.630.4353.0	
27.630.4453.0	
27.630.4553.0	
27.630.4653.0	

unmarked
with screw flange

Part Number	Part Number
25.631.3253.0	
25.631.3353.0	
25.631.3453.0	
25.631.3553.0	
25.631.3653.0	
25.631.3753.0	
25.631.3853.0	
25.631.3953.0	
25.631.4053.0	
25.631.4153.0	
25.631.4253.0	
25.631.4353.0	
25.631.4453.0	
25.631.4553.0	
25.631.4653.0	

Box Qty G T Pole

Part Number

Part Number

Part Number

Part Number

Pluggable PCB terminals series 8513, spring cage connection

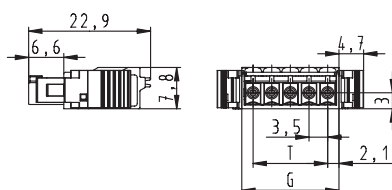
pitch 3.50 mm

IEC	125 V 2.5kV cat.3 250 V 2.5kV cat.2	8 A
UL	300 V	8 A
CSA	300 V	5 A

Wire Strip Length 10 mm



See Technical Data section for screw material options



Approvals:



series 8513 BS F2 OB pitch 3.50 mm

With snap-in flange

Box Qty	G	T	Pole
100	8.40	3.50	2
100	11.90	7.00	3
50	15.40	10.50	4
50	18.90	14.00	5
50	22.40	17.50	6
50	25.90	21.00	7
50	29.40	24.50	8
50	32.90	28.00	9
50	36.40	31.50	10
50	39.90	35.00	11
50	43.40	38.50	12
50	46.90	42.00	13
50	50.40	45.50	14
50	53.90	49.00	15
50	57.40	52.50	16

Part Number	Part Number	Part Number	Part Number
27.631.3253.0			
27.631.3353.0			
27.631.3453.0			
27.631.3553.0			
27.631.3653.0			
27.631.3753.0			
27.631.3853.0			
27.631.3953.0			
27.631.3953.0			
27.631.4153.0			
27.631.4253.0			
27.631.4353.0			
27.631.4453.0			
27.631.4553.0			
27.631.4653.0			

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

Pluggable PCB terminals
series 8513, rising cage clamp system
inverted plug

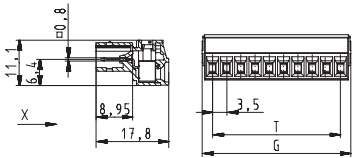
pitch 3.50 mm

IEC	125 V 2.5kV cat.3 250 V 2.5kV cat.2	8 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
UL	300 V	8 A	22 -16 AWG
CSA	300 V	5 A	22 -16 AWG
Wire Strip Length			6.5 mm
Screw Size			M2.5



See Technical Data section for screw material options

Approvals:

series 8513 SU OB pitch 3.50 mm					unmarked			
Box Qty	G	T	Pole		Part Number	Part Number	Part Number	Part Number
100	8.40	3.50	2		25.648.3253.0			
100	11.90	7.00	3		25.648.3353.0			
50	15.40	10.50	4		25.648.3453.0			
50	18.90	14.00	5		25.648.3553.0			
50	22.40	17.50	6		25.648.3653.0			
50	25.90	21.00	7		25.648.3753.0			
50	29.40	24.50	8		25.648.3853.0			
50	32.90	28.00	9		25.648.3953.0			
50	36.40	31.50	10		25.648.4053.0			
50	39.90	35.00	11		25.648.4153.0			
50	43.40	38.50	12		25.648.4253.0			
50	46.90	42.00	13		25.648.4353.0			
50	50.40	45.50	14		25.648.4453.0			
50	53.90	49.00	15		25.648.4553.0			
50	57.40	52.50	16		25.648.4653.0			

Box Qty	G	T	Pole		Part Number	Part Number	Part Number	Part Number

Pluggable PCB terminals series 8813, rising cage clamp system

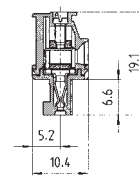
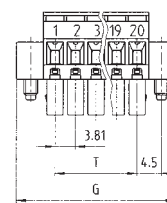
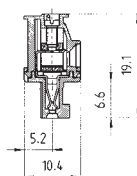
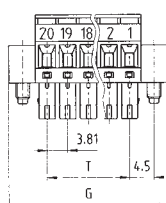
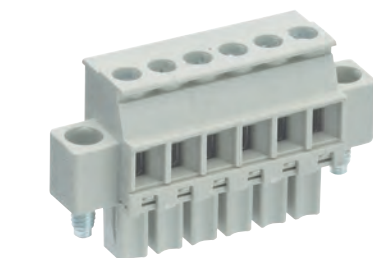
pitch 3.81 mm

IEC	125 V 2.5kV cat.3	8 A	0.14 - 1.5 mm ² (Stranded) 0.14 - 1.5 mm ² (Solid)
	250 V 2.5kV cat.2		
	690 V 2.5kV cat.1		
UL	300 V	8 A	30 - 16 AWG
CSA	300 V	5 A	22 - 14 AWG

Wire Strip Length 6.5 mm
Screw Size M2

See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

series 8813 B VRF/VLF pitch 3.81 mm

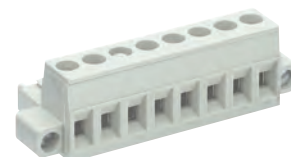
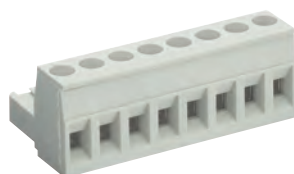
Box Qty	G	T	Pole	unmarked with screw flange	marked with screw flange	unmarked with screw flange	marked with screw flange
				Part Number	Part Number	Part Number	Part Number
100	8.41	3.81	2	25.623.3253.0	25.623.0253.0	25.625.3253.0	25.625.0253.0
100	12.22	7.62	3	25.623.3353.0	25.623.0353.0	25.625.3353.0	25.625.0353.0
50	16.03	11.43	4	25.623.3453.0	25.623.0453.0	25.625.3453.0	25.625.0453.0
50	19.84	15.24	5	25.623.3553.0	25.623.0553.0	25.625.3553.0	25.625.0553.0
50	23.65	19.05	6	25.623.3653.0	25.623.0653.0	25.625.3653.0	25.625.0653.0
50	27.46	22.86	7	25.623.3753.0	25.623.0753.0	25.625.3753.0	25.625.0753.0
50	31.27	26.67	8	25.623.3853.0	25.623.0853.0	25.625.3853.0	25.625.0853.0
50	35.08	30.48	9	25.623.3953.0	25.623.0953.0	25.625.3953.0	25.625.0953.0
50	38.89	34.29	10	25.623.4053.0	25.623.1053.0	25.625.4053.0	25.625.1053.0
50	42.70	38.10	11	25.623.4153.0	25.623.1153.0	25.625.4153.0	25.625.1153.0
50	46.51	41.91	12	25.623.4253.0	25.623.1253.0	25.625.4253.0	25.625.1253.0
50	50.32	45.72	13	25.623.4353.0	25.623.1353.0	25.625.4353.0	25.625.1353.0
50	54.13	49.53	14	25.623.4453.0	25.623.1453.0	25.625.4453.0	25.625.1453.0
50	57.94	53.34	15	25.623.4553.0	25.623.1553.0	25.625.4553.0	25.625.1553.0
50	61.75	57.15	16	25.623.4653.0	25.640.1653.0	25.625.4653.0	25.625.1653.0

Custom Marking Available
More poles available on request

Pluggable PCB terminals series 8113 / 8213, rising cage clamp

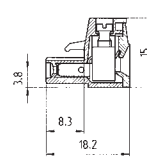
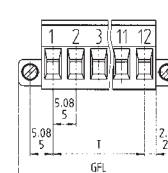
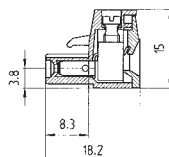
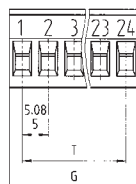
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	15 A	22 - 12 AWG
Wire Strip Length		6.0 mm	
Screw Size		M3	



See Technical Data section for screw material options

Approvals:



series 8113 B / F OB pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

marked

unmarked
with screw flange

marked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.320.3253.0	25.320.0253.0	25.322.3253.0	25.322.0253.0
25.320.3353.0	25.320.0353.0	25.322.3353.0	25.322.0353.0
25.320.3453.0	25.320.0453.0	25.322.3453.0	25.322.0453.0
25.320.3553.0	25.320.0553.0	25.322.3553.0	25.322.0553.0
25.320.3653.0	25.320.0653.0	25.322.3653.0	25.322.0653.0
25.320.3753.0	25.320.0753.0	25.322.3753.0	25.322.0753.0
25.320.3853.0	25.320.0853.0	25.322.3853.0	25.322.0853.0
25.320.3953.0	25.320.0953.0	25.322.3953.0	25.322.0953.0
25.320.4053.0	25.320.1053.0	25.322.4053.0	25.322.1053.0
25.320.4153.0	25.320.1153.0	25.322.4153.0	25.322.1153.0
25.320.4253.0	25.320.1253.0	25.322.4253.0	25.322.1253.0
25.320.4353.0	25.320.1353.0	25.322.4353.0	25.322.1353.0
25.320.4453.0	25.320.1453.0	25.322.4453.0	25.322.1453.0
25.320.4553.0	25.320.1553.0	25.322.4553.0	25.322.1553.0
25.320.4653.0	25.320.1653.0	25.322.4653.0	25.322.1653.0

series 8213 B / F OB pitch 5.08 mm

Box Qty	G	T	Pole
100	10.16	5.08	2
100	15.24	10.16	3
50	20.32	15.24	4
50	25.40	20.32	5
50	30.48	25.40	6
50	35.56	30.48	7
50	40.64	35.56	8
50	45.72	40.64	9
50	50.80	45.72	10
50	55.88	50.80	11
50	60.96	55.88	12
50	66.04	60.96	13
50	71.12	66.04	14
50	76.20	71.12	15
50	81.28	76.20	16

unmarked

marked

unmarked
with screw flange

marked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.340.3253.0	25.340.0253.0	25.323.3253.0	25.323.0253.0
25.340.3353.0	25.340.0353.0	25.323.3353.0	25.323.0353.0
25.340.3453.0	25.340.0453.0	25.323.3453.0	25.323.0453.0
25.340.3553.0	25.340.0553.0	25.323.3553.0	25.323.0553.0
25.340.3653.0	25.340.0653.0	25.323.3653.0	25.323.0653.0
25.340.3753.0	25.340.0753.0	25.323.3753.0	25.323.0753.0
25.340.3853.0	25.340.0853.0	25.323.3853.0	25.323.0853.0
25.340.3953.0	25.340.0953.0	25.323.3953.0	25.323.0953.0
25.340.4053.0	25.340.1053.0	25.323.4053.0	25.323.1053.0
25.340.4153.0	25.340.1153.0	25.323.4153.0	25.323.1153.0
25.340.4253.0	25.340.1253.0	25.323.4253.0	25.323.1253.0
25.340.4353.0	25.340.1353.0	25.323.4353.0	25.323.1353.0
25.340.4453.0	25.340.1453.0	25.323.4453.0	25.323.1453.0
25.340.4553.0	25.340.1553.0	25.323.4553.0	25.323.1553.0
25.340.4653.0	25.340.1653.0	25.323.4653.0	25.323.1653.0

Pluggable PCB terminals series 8113 / 8213, rising cage clamp system

pitch 5.00 / 5.08 mm

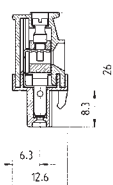
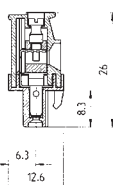
IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	15 A	22 - 12 AWG

Wire Strip Length	6.0 mm
Screw Size	M3



See Technical Data section for screw material options

Approvals:



series 8113 B VR / F pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
25.325.3253.0	25.325.0253.0		
25.325.3353.0	25.325.0353.0		
25.325.3453.0	25.325.0453.0		
25.325.3553.0	25.325.0553.0		
25.325.3653.0	25.325.0653.0		
25.325.3753.0	25.325.0753.0		
25.325.3853.0	25.325.0853.0		
25.325.3953.0	25.325.0953.0		
25.325.4053.0	25.325.1053.0		
25.325.4153.0	25.325.1153.0		
25.325.4253.0	25.325.1253.0		
25.325.4353.0	25.325.1353.0		
25.325.4453.0	25.325.1453.0		
25.325.4553.0	25.325.1553.0		
25.325.4653.0	25.325.1653.0		

series 8213 B VR / F pitch 5.08 mm

Box Qty	G	T	Pole
100	10.16	5.08	2
100	15.24	10.16	3
50	20.32	15.24	4
50	25.40	20.32	5
50	30.48	25.40	6
50	35.56	30.48	7
50	40.64	35.56	8
50	45.72	40.64	9
50	50.80	45.72	10
50	55.88	50.80	11
50	60.96	55.88	12
50	66.04	60.96	13
50	71.12	66.04	14
50	76.20	71.12	15
50	81.28	76.20	16

unmarked

marked

unmarked
with screw flange

marked
with screw flange

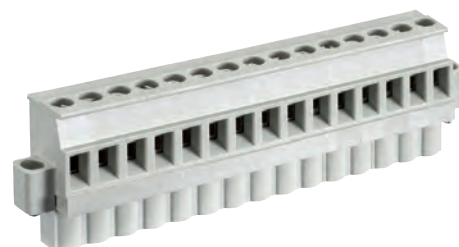
Part Number	Part Number	Part Number	Part Number
25.345.3253.0	25.345.0253.0	25.344.3253.0	25.344.0253.0
25.345.3353.0	25.345.0353.0	25.344.3353.0	25.344.0353.0
25.345.3453.0	25.345.0453.0	25.344.3453.0	25.344.0453.0
25.345.3553.0	25.345.0553.0	25.344.3553.0	25.344.0553.0
25.345.3653.0	25.345.0653.0	25.344.3653.0	25.344.0653.0
25.345.3753.0	25.345.0753.0	25.344.3753.0	25.344.0753.0
25.345.3853.0	25.345.0853.0	25.344.3853.0	25.344.0853.0
25.345.3953.0	25.345.0953.0	25.344.3953.0	25.344.0953.0
25.345.4053.0	25.345.1053.0	25.344.4053.0	25.344.1053.0
25.345.4153.0	25.345.1153.0	25.344.4153.0	25.344.1153.0
25.345.4253.0	25.345.1253.0	25.344.4253.0	25.344.1253.0
25.345.4353.0	25.345.1353.0	25.344.4353.0	25.344.1353.0
25.345.4453.0	25.345.1453.0	25.344.4453.0	25.344.1453.0
25.345.4553.0	25.345.1553.0	25.344.4553.0	25.344.1553.0
25.345.4653.0	25.345.1653.0	25.344.4653.0	25.344.1653.0

Pluggable PCB terminals series 8113 / 8213, rising cage clamp system

pitch 5.00 / 5.08 mm

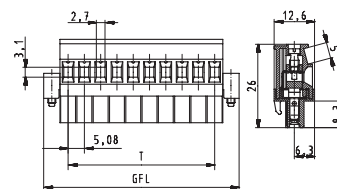
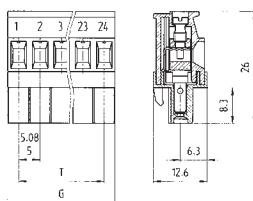
IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	15 A	22 - 12 AWG

Wire Strip Length 6.0 mm
Screw Size M3



See Technical Data section for screw material options

Approvals:



series 8113 B VL / F pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
25.326.3253.0	25.326.0253.0		
25.326.3353.0	25.326.0353.0		
25.326.3453.0	25.326.0453.0		
25.326.3553.0	25.326.0553.0		
25.326.3653.0	25.326.0653.0		
25.326.3753.0	25.326.0753.0		
25.326.3853.0	25.326.0853.0		
25.326.3953.0	25.326.0953.0		
25.326.4053.0	25.326.1053.0		
25.326.4153.0	25.326.1153.0		
25.326.4253.0	25.326.1253.0		
25.326.4353.0	25.326.1353.0		
25.326.4453.0	25.326.1453.0		
25.326.4553.0	25.326.1553.0		
25.326.4653.0	25.326.1653.0		

series 8213 B VL / F pitch 5.08 mm

Box Qty	G	T	Pole
100	10.16	5.08	2
100	15.24	10.16	3
50	20.32	15.24	4
50	25.40	20.32	5
50	30.48	25.40	6
50	35.56	30.48	7
50	40.64	35.56	8
50	45.72	40.64	9
50	50.80	45.72	10
50	55.88	50.80	11
50	60.96	55.88	12
50	66.04	60.96	13
50	71.12	66.04	14
50	76.20	71.12	15
50	81.28	76.20	16

unmarked

marked

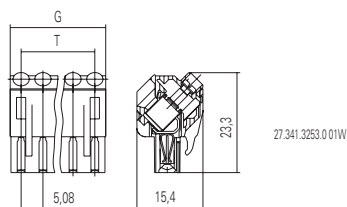
unmarked
with screw flangemarked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.346.3253.0	25.346.0253.0	25.349.3253.0	25.349.0253.0
25.346.3353.0	25.346.0353.0	25.349.3353.0	25.349.0353.0
25.346.3453.0	25.346.0453.0	25.349.3453.0	25.349.0453.0
25.346.3553.0	25.346.0553.0	25.349.3553.0	25.349.0553.0
25.346.3653.0	25.346.0653.0	25.349.3653.0	25.349.0653.0
25.346.3753.0	25.346.0753.0	25.349.3753.0	25.349.0753.0
25.346.3853.0	25.346.0853.0	25.349.3853.0	25.349.0853.0
25.346.3953.0	25.346.0953.0	25.349.3953.0	25.349.0953.0
25.346.4053.0	25.346.1053.0	25.349.4053.0	25.349.1053.0
25.346.4153.0	25.346.1153.0	25.349.4153.0	25.349.1153.0
25.346.4253.0	25.346.1253.0	25.349.4253.0	25.349.1253.0
25.346.4353.0	25.346.1353.0	25.349.4353.0	25.349.1353.0
25.346.4453.0	25.346.1453.0	25.349.4453.0	25.349.1453.0
25.346.4553.0	25.346.1553.0	25.349.4553.0	25.349.1553.0
25.346.4653.0	25.346.1653.0	25.349.4653.0	25.349.1653.0

IEC	250 V 4kV cat.3 400 V 4kV cat.2 400 V 4kV cat.1	12 A	0.5 - 2.5 mm ² (Stranded) 0.5 - 2.5 mm ² (Solid)
UL	300 V	10 A	28 - 12 AWG
CSA	300 V	10 A	28 - 12 AWG

Wire Strip Length	8.0 mm
Screw Size	M2.5

Approvals:

[illegible]

series 8213 B S
pitch 5.08 mm

Box Qty	G	T	Pole		Part Number	Part Number	Part Number	Part Number
100	10.16	5.08	2		27.341.3253.0			
100	15.24	10.16	3		27.341.3353.0			
50	20.32	15.24	4		27.341.3453.0			
50	25.40	20.32	5		27.341.3553.0			
50	30.48	25.40	6		27.341.3653.0			
50	35.56	30.48	7		27.341.3753.0			
50	40.64	35.56	8		27.341.3853.0			
50	45.72	40.64	9		27.341.3953.0			
50	50.80	45.72	10		27.341.4053.0			
50	55.88	50.80	11		27.341.4153.0			
50	60.96	55.88	12		27.341.4253.0			
50	66.04	60.96	13		27.341.4353.0			
50	71.12	66.04	14		27.341.4453.0			
50	76.20	71.12	15		27.341.4553.0			
50	81.28	76.20	16		27.341.4653.0			

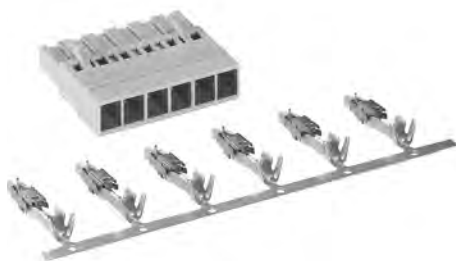
Custom Marking Available
More poles available on request

Crimp connection series 8113

pitch 5.00mm

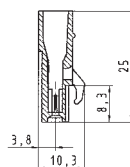
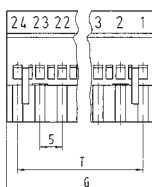
IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	10 A 12 A	0.5 - 1.0 mm ² (Stranded) 1.5 - 2.5 mm ² (Stranded)
UL			
CSA			

Wire Strip Length 4.0 mm



See Technical Data section for screw material options

Approvals:



series 8113 BK pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
01.060.3253.0	01.060.0253.0		
01.060.3353.0	01.060.0353.0		
01.060.3453.0	01.060.0453.0		
01.060.3553.0	01.060.0553.0		
01.060.3653.0	01.060.0653.0		
01.060.3753.0	01.060.0753.0		
01.060.3853.0	01.060.0853.0		
01.060.3953.0	01.060.0953.0		
01.060.4053.0	01.060.1053.0		
01.060.4153.0	01.060.1153.0		
01.060.4253.0	01.060.1253.0		
01.060.4353.0	01.060.1353.0		
01.060.4453.0	01.060.1453.0		
01.060.4553.0	01.060.1553.0		
01.060.4653.0	01.060.1653.0		

series 8113 BK pitch 5.00 mm

Box Qty	Pole	
500	500	Single contacts
3500	3500	Strip
1		Crimp tool
1		Crimp die

crimp contacts
0.5 - 1.0 mm²

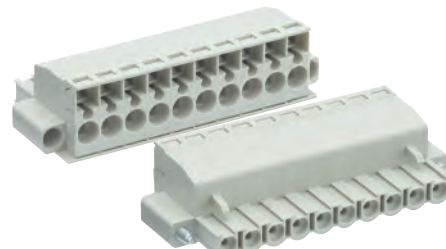
crimp contacts
1.5 - 2.5 mm²

Part Number	Part Number	Part Number	Part Number
02.125.1629.0	02.125.1729.0		
02.125.1600.0	02.125.1700.0		
95.101.0800.0	95.101.0800.0		
05.502.2500.0	05.502.2500.0		

Pluggable PCB terminals series 8113 / 8213, spring clamp system

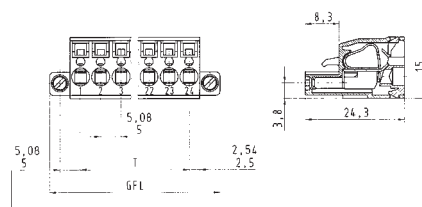
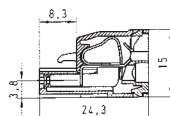
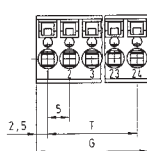
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	12 A	22 - 12 AWG
CSA		12 A	22 - 12 AWG
Wire Strip Length			11.0 mm



See Technical Data section for screw material options

Approvals:



series 8113 BFK/BFK F pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

marked

unmarked
with screw flange

marked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.820.3253.0	25.820.0253.0	25.821.3253.0	25.821.0253.0
25.820.3353.0	25.820.0353.0	25.821.3353.0	25.821.0353.0
25.820.3453.0	25.820.0453.0	25.821.3453.0	25.821.0453.0
25.820.3553.0	25.820.0553.0	25.821.3553.0	25.821.0553.0
25.820.3653.0	25.820.0653.0	25.821.3653.0	25.821.0653.0
25.820.3753.0	25.820.0753.0	25.821.3753.0	25.821.0753.0
25.820.3853.0	25.820.0853.0	25.821.3853.0	25.821.0853.0
25.820.3953.0	25.820.0953.0	25.821.3953.0	25.821.0953.0
25.820.4053.0	25.820.1053.0	25.821.4053.0	25.821.1053.0
25.820.4153.0	25.820.1153.0	25.821.4153.0	25.821.1153.0
25.820.4253.0	25.820.1253.0	25.821.4253.0	25.821.1253.0
25.820.4353.0	25.820.1353.0	25.821.4353.0	25.821.1353.0
25.820.4453.0	25.820.1453.0	25.821.4453.0	25.821.1453.0
25.820.4553.0	25.820.1553.0	25.821.4553.0	25.821.1553.0
25.820.4653.0	25.820.1653.0	25.821.4653.0	25.821.1653.0

series 8213 BFK/BFK F pitch 5.08 mm

Box Qty	G	T	Pole
100	10.16	5.08	2
100	15.24	10.16	3
50	20.32	15.24	4
50	25.40	20.32	5
50	30.48	25.40	6
50	35.56	30.48	7
50	40.64	35.56	8
50	45.72	40.64	9
50	50.80	45.72	10
50	55.88	50.80	11
50	60.96	55.88	12
50	66.04	60.96	13
50	71.12	66.04	14
50	76.20	71.12	15
50	81.28	76.20	16

unmarked

marked

unmarked
with screw flange

marked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.840.3253.0	25.840.0253.0	25.841.3253.0	25.841.0253.0
25.840.3353.0	25.840.0353.0	25.841.3353.0	25.841.0353.0
25.840.3453.0	25.840.0453.0	25.841.3453.0	25.841.0453.0
25.840.3553.0	25.840.0553.0	25.841.3553.0	25.841.0553.0
25.840.3653.0	25.840.0653.0	25.841.3653.0	25.841.0653.0
25.840.3753.0	25.840.0753.0	25.841.3753.0	25.841.0753.0
25.840.3853.0	25.840.0853.0	25.841.3853.0	25.841.0853.0
25.840.3953.0	25.840.0953.0	25.841.3953.0	25.841.0953.0
25.840.4053.0	25.840.1053.0	25.841.4053.0	25.841.1053.0
25.840.4153.0	25.840.1153.0	25.841.4153.0	25.841.1153.0
25.840.4253.0	25.840.1253.0	25.841.4253.0	25.841.1253.0
25.840.4353.0	25.840.1353.0	25.841.4353.0	25.841.1353.0
25.840.4453.0	25.840.1453.0	25.841.4453.0	25.841.1453.0
25.840.4553.0	25.840.1553.0	25.841.4553.0	25.841.1553.0
25.840.4653.0	25.840.1653.0	25.841.4653.0	25.841.1653.0

Pluggable PCB terminals series 8113 / 8213, spring clamp system

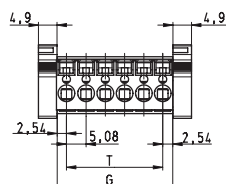
pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3	12 A
UL	300 V	12 A
CSA	300 V	12 A

Wire Strip Length 11.0 mm



See Technical Data section for screw material options



Approvals:



Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

series 8213 BFK F / F2 pitch 5.08 mm

Box Qty	G	T	Pole
100	10.16	5.08	2
100	15.24	10.16	3
50	20.32	15.24	4
50	25.40	20.32	5
50	30.48	25.40	6
50	35.56	30.48	7
50	40.64	35.56	8
50	45.72	40.64	9
50	50.80	45.72	10
50	55.88	50.80	11
50	60.96	55.88	12
50	66.04	60.96	13
50	71.12	66.04	14
50	76.20	71.12	15
50	81.28	76.20	16

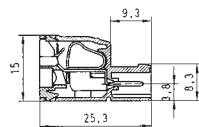
snap-in flange
unmarked

snap-in flange
marked

Part Number	Part Number	Part Number	Part Number
25.843.3253.0	25.843.0253.0		
25.843.3353.0	25.843.0353.0		
25.843.3453.0	25.843.0453.0		
25.843.3553.0	25.843.0553.0		
25.843.3653.0	25.843.0653.0		
25.843.3753.0	25.843.0753.0		
25.843.3853.0	25.843.0853.0		
25.843.3953.0	25.843.0953.0		
25.843.4053.0	25.843.0053.0		
25.843.4153.0	25.843.0153.0		
25.843.4253.0	25.843.0253.0		
25.843.4353.0	25.843.0353.0		
25.843.4453.0	25.843.0453.0		
25.843.4553.0	25.843.0553.0		
25.843.4653.0	25.843.0653.0		

IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	12 A	22 - 12 AWG
CSA	300 V	12 A	22 - 12 AWG
Wire Strip Length			11.0 mm

See Technical Data section for screw material options



Approvals:

[illegible]

series 8213 SUFK
pitch 5.08 mm

Custom Marking Available
More poles available on request

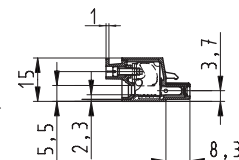
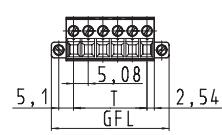
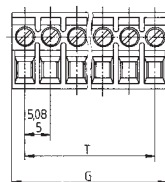
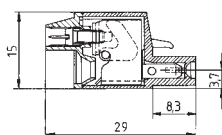
Pluggable PCB terminals series 8113 / 8213, TOP connection system

pitch 5.00 / 5.08 mm

IEC	250 V 4kV cat.3 400 V 4kV cat.2 1000 V 4kV cat.1	12 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	15 A	22 - 12 AWG

Wire Strip Length	9.5 mm
Screw Size	M2.5

See Technical Data section for screw material options



Approvals:



series 8113 B TOP pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

unmarked

marked

Part Number	Part Number	Part Number	Part Number
25.220.3253.0	25.220.0253.0		
25.220.3353.0	25.220.0353.0		
25.220.3453.0	25.220.0453.0		
25.220.3553.0	25.220.0553.0		
25.220.3653.0	25.220.0653.0		
25.220.3753.0	25.220.0753.0		
25.220.3853.0	25.220.0853.0		
25.220.3953.0	25.220.0953.0		
25.220.4053.0	25.220.1053.0		
25.220.4153.0	25.220.1153.0		
25.220.4253.0	25.220.1253.0		
25.220.4353.0	25.220.1353.0		
25.220.4453.0	25.220.1453.0		
25.220.4553.0	25.220.1553.0		
25.220.4653.0	25.220.1653.0		

series 8213 B TOP / F pitch 5.08 mm

Box Qty	G	T	Pole
100	10.16	5.08	2
100	15.24	10.16	3
50	20.32	15.24	4
50	25.40	20.32	5
50	30.48	25.40	6
50	35.56	30.48	7
50	40.64	35.56	8
50	45.72	40.64	9
50	50.80	45.72	10
50	55.88	50.80	11
50	60.96	55.88	12
50	66.04	60.96	13
50	71.12	66.04	14
50	76.20	71.12	15
50	81.28	76.20	16

unmarked

marked

unmarked
with screw flange

marked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.240.3253.0	25.240.0253.0	25.245.3253.0	25.245.0253.0
25.240.3353.0	25.240.0353.0	25.245.3353.0	25.245.0353.0
25.240.3453.0	25.240.0453.0	25.245.3453.0	25.245.0453.0
25.240.3553.0	25.240.0553.0	25.245.3553.0	25.245.0553.0
25.240.3653.0	25.240.0653.0	25.245.3653.0	25.245.0653.0
25.240.3753.0	25.240.0753.0	25.245.3753.0	25.245.0753.0
25.240.3853.0	25.240.0853.0	25.245.3853.0	25.245.0853.0
25.240.3953.0	25.240.0953.0	25.245.3953.0	25.245.0953.0
25.240.4053.0	25.240.1053.0	25.245.4053.0	25.245.1053.0
25.240.4153.0	25.240.1153.0	25.245.4153.0	25.245.1153.0
25.240.4253.0	25.240.1253.0	25.245.4253.0	25.245.1253.0
25.240.4353.0	25.240.1353.0	25.245.4353.0	25.245.1353.0
25.240.4453.0	25.240.1453.0	25.245.4453.0	25.245.1453.0
25.240.4553.0	25.240.1553.0	25.245.4553.0	25.245.1553.0
25.240.4653.0	25.240.1653.0	25.245.4653.0	25.245.1653.0

Pluggable PCB terminals series 8313 / 8413, rising cage clamp system

pitch 7.50 / 7.62 mm

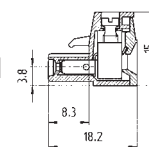
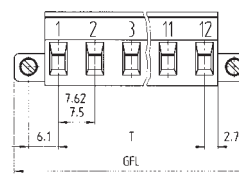
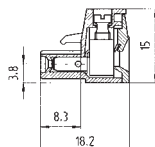
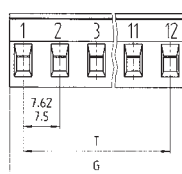
IEC	400 V 4kV cat.3	12 A	0.14 - 2.5 mm ² (Stranded)
	690 V 4kV cat.2		0.14 - 2.5 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	15 A	22 - 12 AWG

Wire Strip Length 6.0 mm
Screw Size M3



See Technical Data section for screw material options

Approvals:



series 8313 B/B F pitch 7.50 mm

Box Qty	G	T	Pole
100	13.00	7.50	2
100	20.50	15.00	3
50	28.00	22.50	4
50	35.50	30.00	5
50	43.00	37.50	6
50	50.50	45.00	7
50	58.00	52.50	8
50	65.50	60.00	9
50	73.00	67.50	10
50	80.50	75.00	11
50	88.00	82.50	12

unmarked

marked

unmarked
with screw flange

marked
with screw flange

Part Number	Part Number	Part Number	Part Number
25.360.3253.0	25.360.0253.0	25.324.2253.0	25.324.0253.0
25.360.3353.0	25.360.0353.0	25.324.2353.0	25.324.0353.0
25.360.3453.0	25.360.0453.0	25.324.2453.0	25.324.0453.0
25.360.3553.0	25.360.0553.0	25.324.2553.0	25.324.0553.0
25.360.3653.0	25.360.0653.0	25.324.2653.0	25.324.0653.0
25.360.3753.0	25.360.0753.0	25.324.2753.0	25.324.0753.0
25.360.3853.0	25.360.0853.0	25.324.2853.0	25.324.0853.0
25.360.3953.0	25.360.0953.0	25.324.2953.0	25.324.0953.0
25.360.4053.0	25.360.1053.0	25.324.3053.0	25.324.1053.0
25.360.4153.0	25.360.1153.0	25.324.3153.0	25.324.1153.0
25.360.4253.0	25.360.1253.0	25.324.3253.0	25.324.1253.0

series 8413 B/B F pitch 7.62 mm

Box Qty	G	T	Pole
100	13.12	7.62	2
100	20.74	15.24	3
50	28.36	22.86	4
50	35.98	30.48	5
50	43.60	38.10	6
50	51.22	45.72	7
50	58.84	53.34	8
50	66.46	60.96	9
50	74.08	68.58	10
50	81.70	76.20	11
50	89.32	83.82	12

unmarked

marked

unmarked
with screw flange

marked
with screw flange

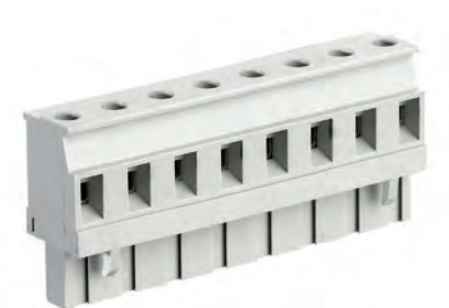
Part Number	Part Number	Part Number	Part Number
25.380.3253.0	25.380.0253.0	25.324.6253.0	25.324.4253.0
25.380.3353.0	25.380.0353.0	25.324.6353.0	25.324.4353.0
25.380.3453.0	25.380.0453.0	25.324.6453.0	25.324.4453.0
25.380.3553.0	25.380.0553.0	25.324.6553.0	25.324.4553.0
25.380.3653.0	25.380.0653.0	25.324.6653.0	25.324.4653.0
25.380.3753.0	25.380.0753.0	25.324.6753.0	25.324.4753.0
25.380.3853.0	25.380.0853.0	25.324.6853.0	25.324.4853.0
25.380.3953.0	25.380.0953.0	25.324.6953.0	25.324.4953.0
25.380.4053.0	25.380.1053.0	25.324.7053.0	25.324.5053.0
25.380.4153.0	25.380.1153.0	25.324.7153.0	25.324.5153.0
25.380.4253.0	25.380.1253.0	25.324.7253.0	25.324.5253.0

Pluggable PCB terminals series 8413, rising cage clamp system

pitch 7.62 mm

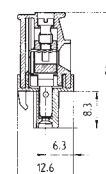
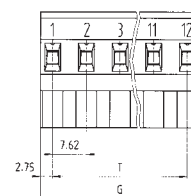
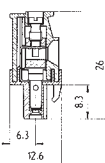
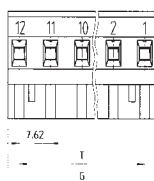
IEC	400 V 4kV cat.3	12 A	0.14 - 2.5 mm ² (Stranded)
	690 V 4kV cat.2		0.14 - 2.5 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	15 A	22 - 12 AWG
CSA	300 V	15 A	22 - 12 AWG

Wire Strip Length 6.0 mm
Screw Size M3



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

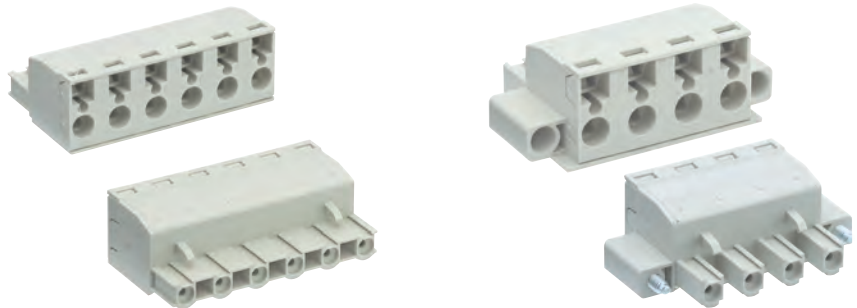
series 8413 B VR/B VL pitch 7.62 mm

Box Qty	G	T	Pole	unmarked	marked	unmarked	marked
				Part Number	Part Number	Part Number	Part Number
100	13.12	7.62	2	25.385.2253.0	25.385.0253.0	25.386.2253.0	25.386.0253.0
100	20.74	15.24	3	25.385.2353.0	25.385.0353.0	25.386.2353.0	25.386.0353.0
50	28.36	22.86	4	25.385.2453.0	25.385.0453.0	25.386.2453.0	25.386.0453.0
50	35.98	30.48	5	25.385.2553.0	25.385.0553.0	25.386.2553.0	25.386.0553.0
50	43.60	38.10	6	25.385.2653.0	25.385.0653.0	25.386.2653.0	25.386.0653.0
50	51.22	45.72	7	25.385.2753.0	25.385.0753.0	25.386.2753.0	25.386.0753.0
50	58.84	53.34	8	25.385.2853.0	25.385.0853.0	25.386.2853.0	25.386.0853.0
50	66.46	60.96	9	25.385.2953.0	25.385.0953.0	25.386.2953.0	25.386.0953.0
50	74.08	68.58	10	25.385.3053.0	25.385.1053.0	25.386.3053.0	25.386.1053.0
50	81.70	76.20	11	25.385.3153.0	25.385.1153.0	25.386.3153.0	25.386.1153.0
50	89.32	83.82	12	25.385.3253.0	25.385.1253.0	25.386.3253.0	25.386.1253.0

Pluggable PCB terminal series 8413, spring clamp system

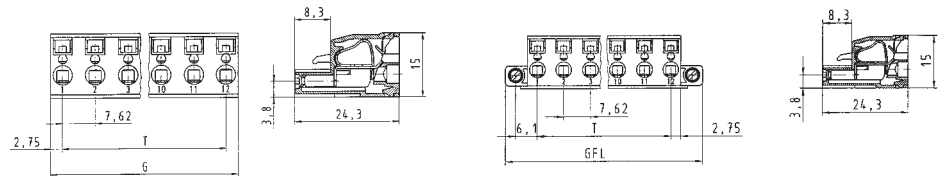
pitch 7.62 mm

IEC	400 V 6kV cat.3 690 V 6kV cat.2 1000 V 6kV cat.1	12 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 2.5 mm ² (Solid)
UL	300 V	12 A	22 - 12 AWG
CSA			
Wire Strip Length		11.0 mm	



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8413 BFK/BFK F pitch 7.62 mm				unmarked	marked	unmarked	marked
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100	13.12	7.62	2	25.880.3253.0	25.880.0253.0	25.881.3253.0	25.881.0253.0
100	20.74	15.24	3	25.880.3353.0	25.880.0353.0	25.881.3353.0	25.881.0353.0
50	28.36	22.86	4	25.880.3453.0	25.880.0453.0	25.881.3453.0	25.881.0453.0
50	35.98	30.48	5	25.880.3553.0	25.880.0553.0	25.881.3553.0	25.881.0553.0
50	43.60	38.10	6	25.880.3653.0	25.880.0653.0	25.881.3653.0	25.881.0653.0
50	51.22	45.72	7	25.880.3753.0	25.880.0753.0	25.881.3753.0	25.881.0753.0
50	58.84	53.34	8	25.880.3853.0	25.880.0853.0	25.881.3853.0	25.881.0853.0
50	66.46	60.96	9	25.880.3953.0	25.880.0953.0	25.881.3953.0	25.881.0953.0
50	74.08	68.58	10	25.880.4053.0	25.880.1053.0	25.881.4053.0	25.881.1053.0
50	81.70	76.20	11	25.880.4153.0	25.880.1153.0	25.881.4153.0	25.881.1153.0
50	89.32	83.82	12	25.880.4253.0	25.880.1253.0	25.881.4253.0	25.881.1253.0



System features

- rising cage clamp
- detachable connection
- clear, straight forward interconnection
- PCB thickness: 1.4 mm up to 1.8 mm
- floating contact springs ensure a secure connection to the PCB



Coding

- coding does not effect the number of available poles
- PCB with coding slots for the location of the plug-in barriers in the contact part



Marking

- inkjet printed directly onto the connector
- clear pole marking which is easy to read
- special marking is possible on request



Type range

- 3.5 mm and 5 mm pitch
- 2 – 24 pole can be supplied
- connecting conductor sizes up to 1.5 mm²
- open side walls for expansion without effecting the pitch
- closed side walls to prevent miss connection
- with or without solder pin

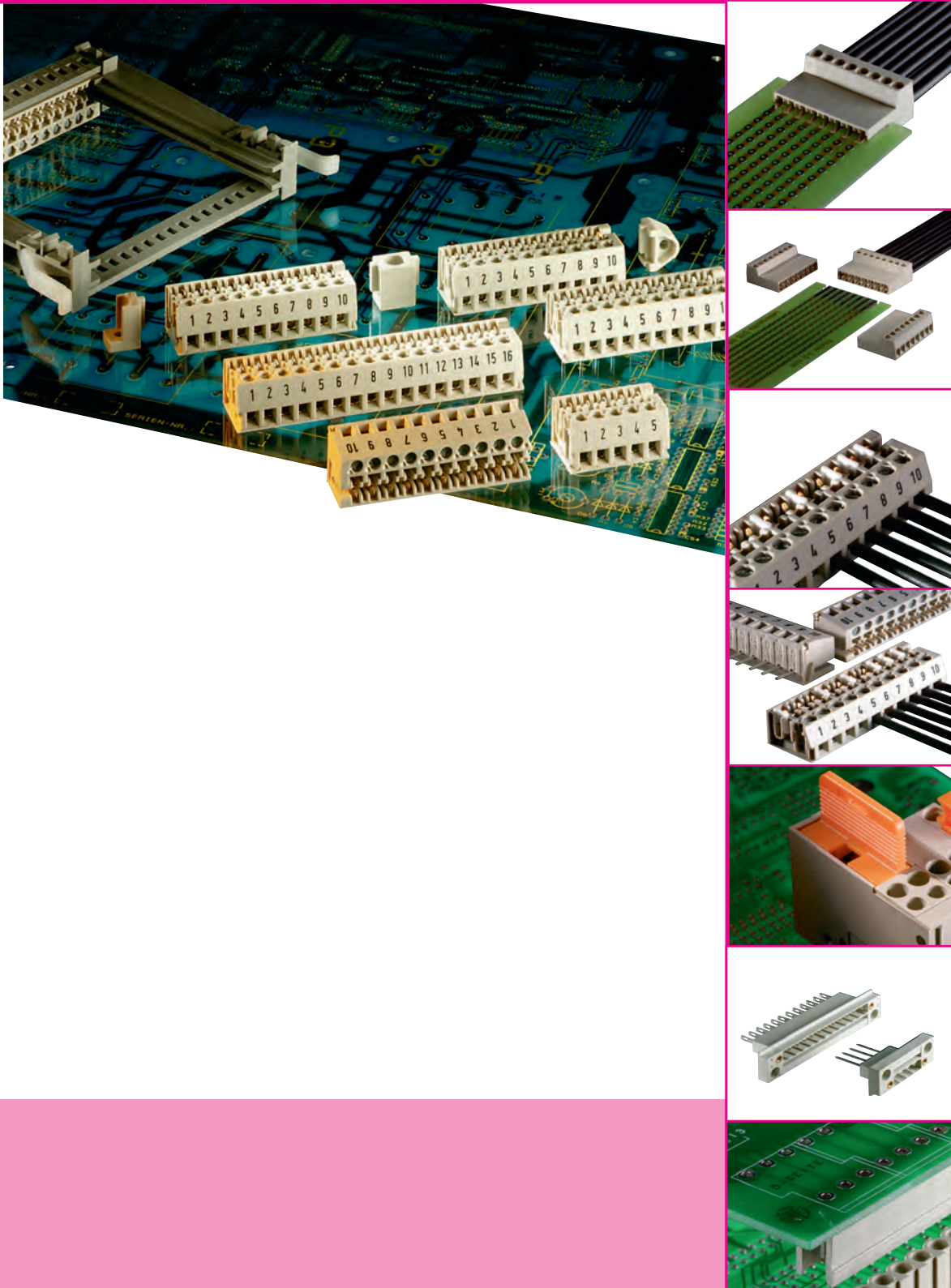


Card holder

- for secure connection to the PCB and plug in connector
- special card brackets act as a guide when using large PCB's. With side locating cams at the top and bottom for attaching a perforated guide frame

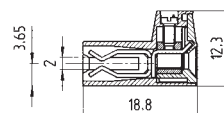
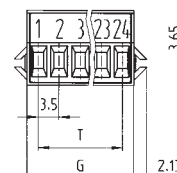
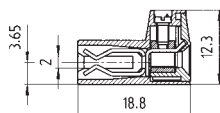
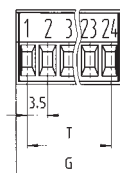


Special Terminals





See Technical Data section for screw material options



marked

Part Number	Part Number	Part Number	Part Number
25.003.0253.0	25.002.0253.0	25.005.0253.0	25.004.0253.0
25.003.0353.0	25.002.0353.0	25.005.0353.0	25.004.0353.0
25.003.0453.0	25.002.0453.0	25.005.0453.0	25.004.0453.0
25.003.0553.0	25.002.0553.0	25.005.0553.0	25.004.0553.0
25.003.0653.0	25.002.0653.0	25.005.0653.0	25.004.0653.0
25.003.0753.0	25.002.0753.0	25.005.0753.0	25.004.0753.0
25.003.0853.0	25.002.0853.0	25.005.0853.0	25.004.0853.0
25.003.0953.0	25.002.0953.0	25.005.0953.0	25.004.0953.0
25.003.1053.0	25.002.1053.0	25.005.1053.0	25.004.1053.0
25.003.1153.0	25.002.1153.0	25.005.1153.0	25.004.1153.0
25.003.1253.0	25.002.1253.0	25.005.1253.0	25.004.1253.0

106

PCB edge connector type LPST 1 / LPSTL 1

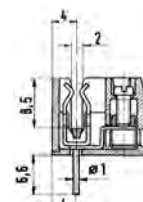
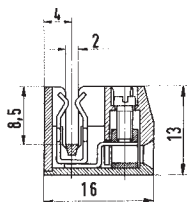
pitch 5.00 mm

IEC	250 V 4kV cat.3	5 A	0.14 - 2.5 mm ² (Stranded) 0.14 - 4.0 mm ² (Solid)
	690 V 4kV cat.2		
	1000 V 4kV cat.1		
UL	300 V	5 A	22 - 14 AWG
CSA	300 V	5 A	22 - 14 AWG

Wire Strip Length	6.0 mm
Screw Size	M2.5

See Technical Data section for screw material options

Approvals:



series LPST / L pitch 5.00 mm

Box Qty	G	T	Pole
100	14	5	2
100	19	10	3
50	24	15	4
50	29	20	5
50	34	25	6
50	39	30	7
50	44	35	8
50	49	40	9
50	54	45	10
50	59	50	11
50	64	55	12
50	69	60	13
50	74	65	14
50	79	70	15
50	84	75	16

unmarked without solder connection marked without solder connection

Part Number	Part Number	Part Number	Part Number
25.010.0256.0	25.000.0256.0		25.001.0256.0
25.010.0356.0	25.000.0356.0		25.001.0356.0
25.010.0456.0	25.000.0456.0		25.001.0456.0
25.010.0556.0	25.000.0556.0		25.001.0556.0
25.010.0656.0	25.000.0656.0		25.001.0656.0
25.010.0756.0	25.000.0756.0		25.001.0756.0
25.010.0856.0	25.000.0856.0		25.001.0856.0
25.010.0956.0	25.000.0956.0		25.001.0956.0
25.010.1056.0	25.000.1056.0		25.001.1056.0
25.010.1156.0	25.000.1156.0		25.001.1156.0
25.010.1256.0	25.000.1256.0		25.001.1256.0
25.010.1356.0	25.000.1356.0		25.001.1356.0
25.010.1456.0	25.000.1456.0		25.001.1456.0
25.010.1556.0	25.000.1556.0		25.001.1556.0
25.010.1656.0	25.000.1656.0		25.001.1656.0

marked with solder connection

Box Qty	G	T	Pole

Part Number	Part Number	Part Number	Part Number

PCB terminal
series 8276, rising cage clamp system

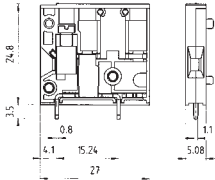
pitch 5.08 mm

IEC	250 V 4kV cat.3	26 A	0.14 - 2.5 mm ² (Stranded)
	400 V 4kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	15 A (Field)	30 - 14 AWG
		23 A (Factory)	
CSA	300 V	20 A	30 - 14 AWG
Solder Pin			0.8 x 1.1 mm
Drill Hole			1.4 mm
Wire Strip Length			6.0 mm
Screw Size			M4



See Technical Data section for screw material options

Approvals:



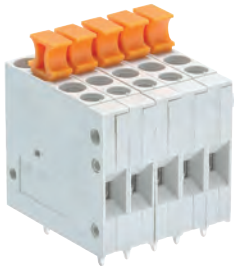
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8276 pitch 5.08 mm				modular terminal			
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			1	25.720.1353.0			

PCB terminal
series 8276, rising cage clamp system

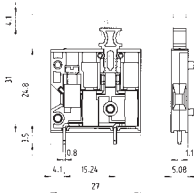
pitch 5.08 mm

IEC	250 V 4kV cat.3	15 A	0.14 - 2.5 mm ² (Stranded)
	400 V 4kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	15 A	30 - 14 AWG
CSA	300 V	15 A	30 - 14 AWG
Solder Pin			0.8 x 1.1 mm
Drill Hole			1.4 mm
Wire Strip Length			6.0 mm
Screw Size			M4



See Technical Data section for screw material options

Approvals:



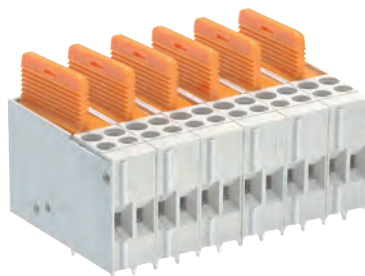
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8276 TKS pitch 5.08 mm				disconnect terminal			
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			1	25.720.1453.0			

PCB terminal series 8276, rising cage clamp system

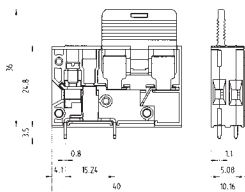
pitch 5.08 mm

IEC	250 V 4kV cat.3	6.3 A	0.14 - 2.5 mm ² (Stranded)
	690 V 4kV cat.2		0.14 - 4.0 mm ² (Solid)
	1000 V 4kV cat.1		
UL	300 V	6.3 A	30 - 14 AWG
CSA	300 V	6.3 A	30 - 14 AWG
Solder Pin			0.8 x 1.1 mm
Drill Hole			1.4 mm
Wire Strip Length			6.0 mm
Screw Size			M3



See Technical Data section for screw material options

Approvals:



Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

series 8276 Si-D pitch 5.08 mm

fuse terminal
(for Si 5 x 20)

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			1	25.720.1653.0			

Systems feature

- PCB terminals with rising cage clamp connection
- PCB terminal with spring loaded connection
- PCB terminal with top connection
- terminal can be soldered directly onto PCB
- low mechanical loading of the solder area
- straight forward interconnection
- conductors can be individually sized
- various numbers of pole combinations
- connection of single core and finely stranded conductors
- metric and imperial pitch sizes.
- conductor clamping by means of rising cage clamp

Marking

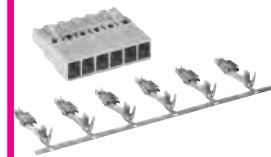
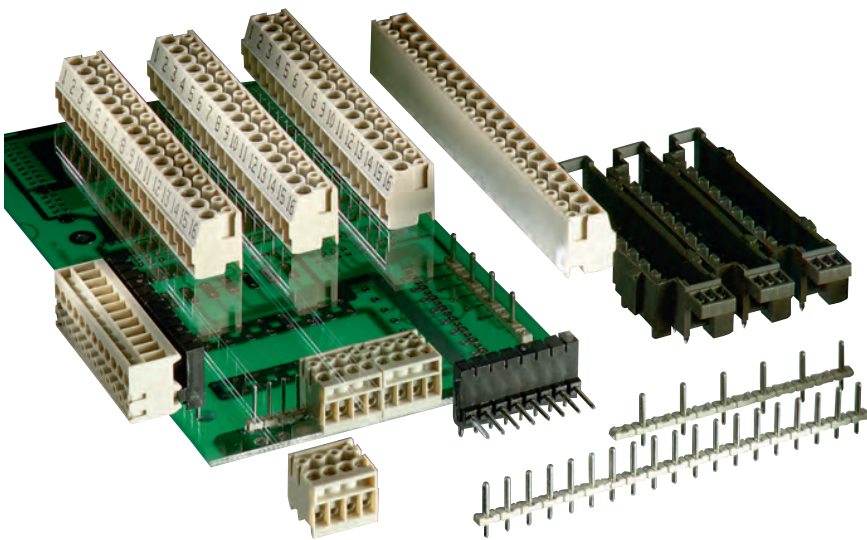
- ink jet printing directly onto the terminal using indelible ink
- individual terminals can be marked using snap-on marking tags
- terminals with or without marking tag carrier are available
- special marking is possible on request

Type range

- 2 – 24 poles
- connection of conductors horizontal and vertical in relation to the PCB
- conductors can be connected at a 45° or 35°
- metric: 3.5/5/7.5/10 mm
- imperial: 3.81/5.08/7.62/10.16/20.32 mm
- terminals snap together individually
- multipole blocks
- with or without insulating plate
- with or without testing plug connection
- with or without fixing cams
- secure connection
- the pitch can be expanded by means of an intermediate plate
- cover plate available
- double solder pins for stability



Accessories

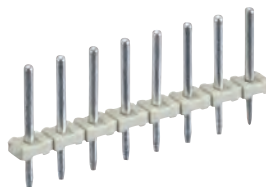


Accessories

PCB pin header

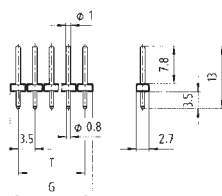
pitch 3.50 mm

IEC	160 V 2.5kV cat.3 250 V 2.5kV cat.2 690 V 2.5kV cat.1	6 A
UL	300 V	10 A
CSA	300 V	10 A
Solder Pin	1.0 x 1.0 mm	
Drill Hole	1.3 mm	



See Technical Data section for screw material options

Approvals:



PCB pin header pitch 3.50 mm

Box Qty	G	T	Pole
100	7.0	3.5	2
100	10.5	7.0	3
50	14.0	10.5	4
50	17.5	14.0	5
50	21.0	17.5	6
50	24.5	21.0	7
50	28.0	24.5	8
50	31.5	28.0	9
50	35.0	31.5	10
50	38.5	35.0	11
50	42.0	38.5	12
50	45.5	42.0	13
50	49.0	45.5	14
50	52.5	49.0	15
50	56.0	52.5	16

Grey
pin Ø 0.8 mm

Black
pin Ø 1.0 mm

Part Number	Part Number	Part Number	Part Number
Z5.531.0225.0	Z5.531.3225.0		
Z5.531.0325.0	Z5.531.3325.0		
Z5.531.0425.0	Z5.531.3425.0		
Z5.531.0525.0	Z5.531.3525.0		
Z5.531.0625.0	Z5.531.3625.0		
Z5.531.0725.0	Z5.531.3725.0		
Z5.531.0825.0	Z5.531.3825.0		
Z5.531.0925.0	Z5.531.3925.0		
Z5.531.1025.0	Z5.531.4025.0		
Z5.531.1125.0	Z5.531.4125.0		
Z5.531.1225.0	Z5.531.4225.0		
Z5.531.1325.0	Z5.531.4325.0		
Z5.531.1425.0	Z5.531.4425.0		
Z5.531.1525.0	Z5.531.4525.0		
Z5.531.1625.0	Z5.531.4625.0		

Box Qty	G	T	Pole

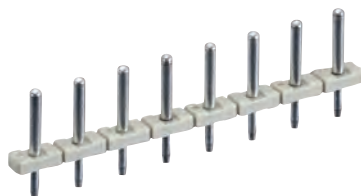
Part Number	Part Number	Part Number	Part Number

Accessories

PCB pin header

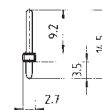
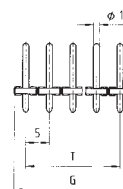
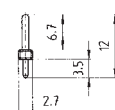
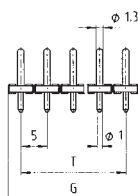
pitch 5.00 mm

IEC	200 V 4kV cat.3	8 A
	250 V 4kV cat.2	
	1000 V 4kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A



See Technical Data section for screw material options

Approvals:



PCB pin header pitch 5.00 mm

Box Qty	G	T	Pole
100	10	5	2
100	15	10	3
50	20	15	4
50	25	20	5
50	30	25	6
50	35	30	7
50	40	35	8
50	45	40	9
50	50	45	10
50	55	50	11
50	60	55	12
50	65	60	13
50	70	65	14
50	75	70	15
50	80	75	16

Grey
pin Ø 1.0 mm
drill Ø 1.3mm

Part Number
Z5.530.0225.0
Z5.530.0325.0
Z5.530.0425.0
Z5.530.0525.0
Z5.530.0625.0
Z5.530.0725.0
Z5.530.0825.0
Z5.530.0925.0
Z5.530.1025.0
Z5.530.1125.0
Z5.530.1225.0
Z5.530.1325.0
Z5.530.1425.0
Z5.530.1525.0
Z5.530.1625.0

Black
pin Ø 1.3 mm
drill Ø 1.6mm

Part Number
Z5.530.3225.0
Z5.530.3325.0
Z5.530.3425.0
Z5.530.3525.0
Z5.530.3625.0
Z5.530.3725.0
Z5.530.3825.0
Z5.530.3925.0
Z5.530.4025.0
Z5.530.4125.0
Z5.530.4225.0
Z5.530.4325.0
Z5.530.4425.0
Z5.530.4525.0
Z5.530.4625.0

Black
pin Ø 1.0 mm
drill Ø 1.3mm

Part Number
Z5.540.0225.0
Z5.540.0325.0
Z5.540.0425.0
Z5.540.0525.0
Z5.540.0625.0
Z5.540.0725.0
Z5.540.0825.0
Z5.540.0925.0
Z5.540.1025.0
Z5.540.1125.0
Z5.540.1225.0
Z5.540.1325.0
Z5.540.1425.0
Z5.540.1525.0
Z5.540.1625.0

Black
pin Ø 1.3 mm
drill Ø 1.6mm

Part Number
Z5.540.3225.0
Z5.540.3325.0
Z5.540.3425.0
Z5.540.3525.0
Z5.540.3625.0
Z5.540.3725.0
Z5.540.3825.0
Z5.540.3925.0
Z5.540.4025.0
Z5.540.4125.0
Z5.540.4225.0
Z5.540.4325.0
Z5.540.4425.0
Z5.540.4525.0
Z5.540.4625.0

Box Qty G T Pole

Part Number

Part Number

Part Number

Part Number

Accessories
PCB pin header

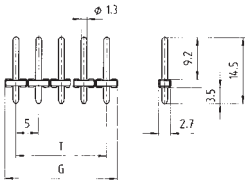
pitch 5.00 mm

IEC	250 V 2.5kV cat.3	8 A
UL	300 V	10 A
CSA	300 V	10 A
Solder Pin	1.0 x 1.0 mm	
Drill Hole	1.3 mm	



See Technical Data section for screw material options

Approvals:



PCB pin header pitch 5.00 mm				THR box	THR tape on reel		
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100	10	5	2	Z5.530.0204.0	Z5.530.0214.0		
100	15	10	3	Z5.530.0304.0	Z5.530.0314.0		
50	20	15	4	Z5.530.0404.0	Z5.530.0414.0		
50	25	20	5	Z5.530.0504.0	Z5.530.0514.0		
50	30	25	6	Z5.530.0604.0	Z5.530.0614.0		
50	35	30	7	Z5.530.0704.0	Z5.530.0714.0		
50	40	35	8	Z5.530.0804.0	Z5.530.0814.0		
50	45	40	9	Z5.530.0904.0	Z5.530.0914.0		
50	50	45	10	Z5.530.1004.0	Z5.530.1014.0		
50	55	50	11	Z5.530.1104.0	Z5.530.1114.0		
50	60	55	12	Z5.530.1204.0	Z5.530.1214.0		

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

Accessories

PCB pin header

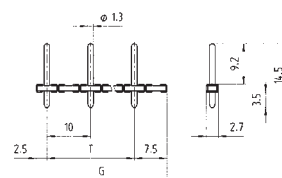
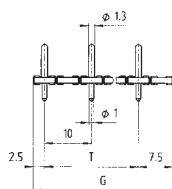
pitch 10.00 mm

IEC	500 V 8kV cat.3	8 A
	800 V 8kV cat.2	
	1000 V 8kV cat.1	
UL	300 V	15 A
CSA	300 V	15 A



See Technical Data section for screw material options

Approvals:



PCB pin header pitch 10.00 mm

Box Qty	G	T	Pole
50	20	10	2
50	30	20	3
50	40	30	4
50	50	40	5
50	60	50	6
50	70	60	7
50	80	70	8

Grey
pin Ø 1.0 mm
drill Ø 1.3mm

Part Number
Z5.530.6225.0
Z5.530.6325.0
Z5.530.6425.0
Z5.530.6525.0
Z5.530.6625.0
Z5.530.6725.0
Z5.530.6825.0

Black
pin Ø 1.3 mm
drill Ø 1.6mm

Part Number
Z5.530.8225.0
Z5.530.8325.0
Z5.530.8425.0
Z5.530.8525.0
Z5.530.8625.0
Z5.530.8725.0
Z5.530.8825.0

Black
pin Ø 1.0 mm
drill Ø 1.3mm

Part Number
Z5.540.6225.0
Z5.540.6325.0
Z5.540.6425.0
Z5.540.6525.0
Z5.540.6625.0
Z5.540.6725.0
Z5.540.6825.0

Black
pin Ø 1.3 mm
drill Ø 1.6mm

Part Number
Z5.540.8225.0
Z5.540.8325.0
Z5.540.8425.0
Z5.540.8525.0
Z5.540.8625.0
Z5.540.8725.0
Z5.540.8825.0

Box Qty G T Pole

Part Number

Part Number

Part Number

Part Number



M3

See Technical Data section for screw material options

Approvals:

[illegible]

mounting bracket

Box Qty

G

T

Pole

Part Number

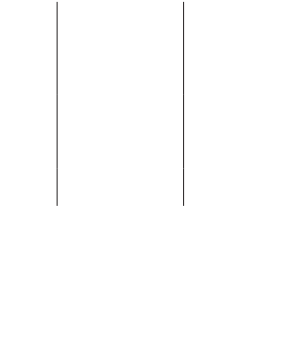
Part Number

Part Number

Part Number

Accessories
jumper comb

pitch 5.00/5.08 mm



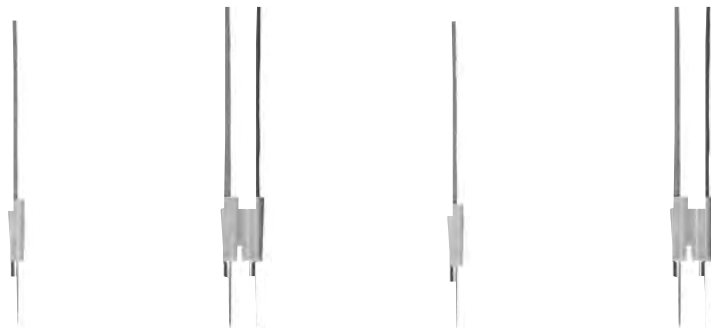
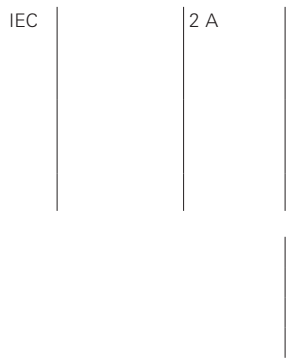
See Technical Data section for screw material options

Approvals:

jumper comb pitch 5.00 mm				connecting comb		unmarked with insulating plate with locating cams	marked with insulating plate with locating cams
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			2 - 24	available on request			

jumper comb pitch 5.08 mm				connecting comb		unmarked with insulating plate with locating cams	marked with insulating plate with locating cams
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number
100			2-24	available on request			

Accessories
test plug



See Technical Data section for screw material options

Approvals:

test plug		test plug 1 pole for 8391/8491	test plug 2 pole for 8391/8491	test plug 1 pole for 8135 / 8235 / 8191 ZW / 8291 ZW / 8192	test plug 2 pole for 8135 / 8235 / 8191 ZW / 8291 ZW / 8192
Box Qty	Pole	Part Number	Part Number	Part Number	Part Number
100	1	Z5.533.7121.0		Z5.533.7121.0	
50	2		Z5.533.8221.0		Z5.533.7221.0

Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

Accessories
marker tag

pitch 5.00 mm



See Technical Data section for screw material options

Approvals:

marker tag pitch 5.00 mm			marker tag carrier	Marker tag, unmarked	Adhesive marking strips (1 sheet = 100 strips)	
Box Qty	Pole		Part Number	Part Number	Part Number	Part Number
50	12		04.242.4653.0			
100	1	Single tag		04.242.5053.0		
50	10	Marker strip		04.242.0850.0		
1		marked 1–12			04.007.4089.0	
1		marked 13–24			04.007.4189.0	
1		marked 25–36			04.007.4289.0	
1		marked 37–48			04.007.4389.0	
1		marked 49–60			04.007.4489.0	
1		marked 61–72			04.007.4589.0	
1		marked 73–84			04.007.4689.0	
1		marked 85–96			04.007.4789.0	
1		marked 97–108			04.007.4889.0	

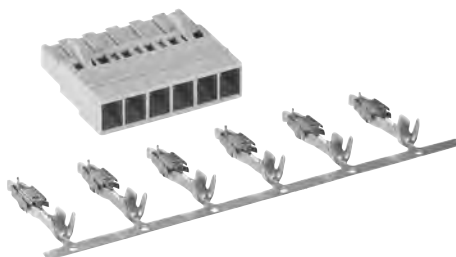
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number

Accessories

crimp contacts

pitch 5.00 mm

IEC	250 V 4kV cat.3	10 A	0.5 - 1.0 mm ² (Stranded)
	400 V 4kV cat.2	12 A	1.5 - 2.5 mm ² (Stranded)
	1000 V 4kV cat.1		
UL			
CSA			



Wire Strip Length	4.0 mm
Screw Size	M3

See Technical Data section for screw material options

Approvals:

series 8113 BK pitch 5.00 mm

Box Qty	Pole		crimp contacts 0.5 - 1.0 mm ²	crimp contacts 1.5 - 2.5 mm ²		
500	500	Single contacts	Part Number	Part Number	Part Number	Part Number
3500	3500	Strip	02.125.1629.0	02.125.1729.0		
			02.125.1600.0	02.125.1700.0		
1		Crimp tool	95.101.0800.0	95.101.0800.0		
1		Crimp die	05.502.2500.0	05.502.2500.0		

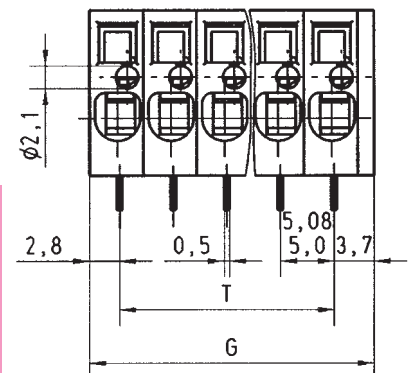
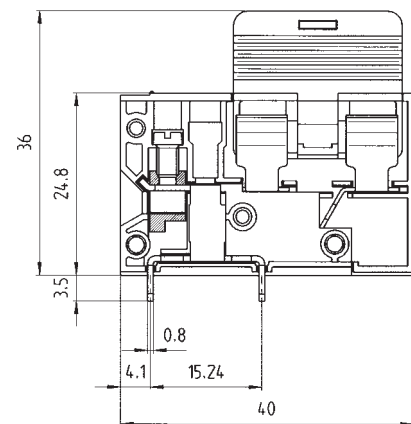
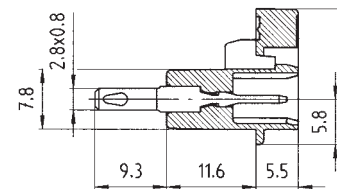
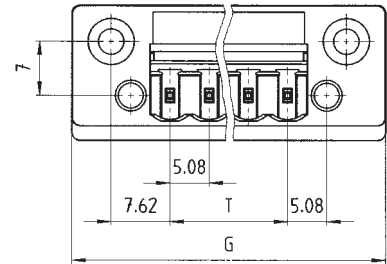
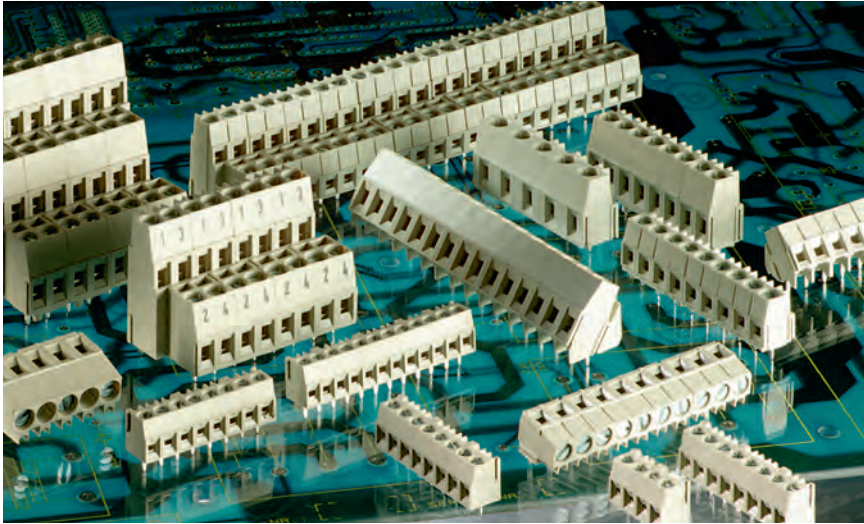
Box Qty	G	T	Pole	Part Number	Part Number	Part Number	Part Number



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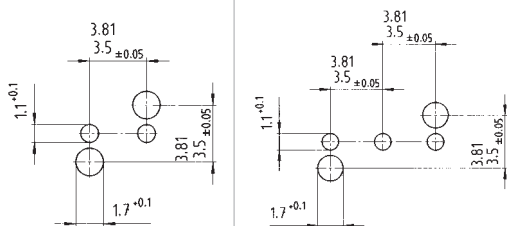


Technical Data

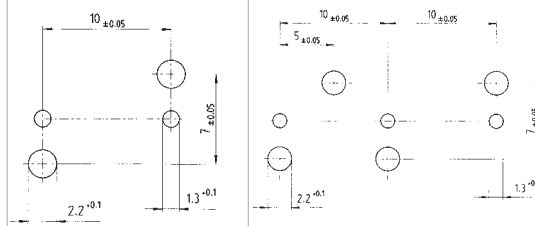


Technical Data PCB Drill Holes

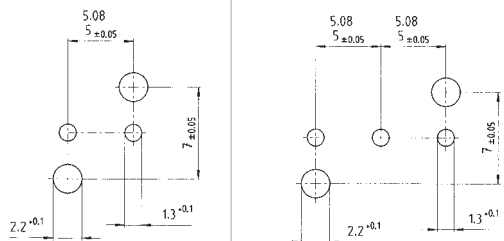
pitch 3.50 / 3.81 mm drilling plan
drawing includes optional locating cams



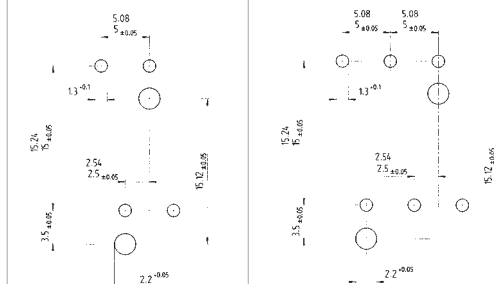
pitch 10.00 mm drilling plan
drawing includes optional locating cams



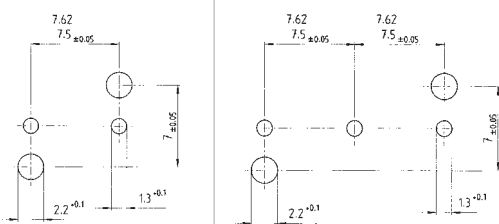
pitch 5.00 / 5.08 mm drilling plan
drawing includes optional locating cams



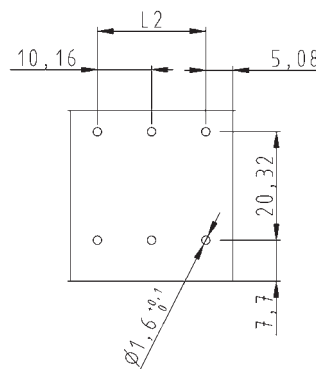
8291E drilling plan
drawing includes optional locating cams



pitch 7.50 / 7.62 mm drilling plan
drawing includes optional locating cams



7573 L2 drilling plan



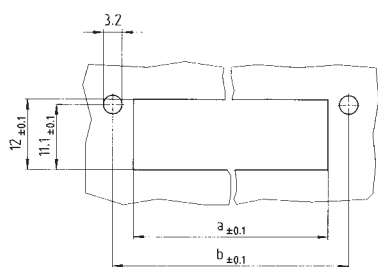
	A	B
8113	5.1	5.00
8213	5.2	5.08
8313	5.4	7.50
8413	5.4	7.62

The technical drawing shows a mechanical part with the following dimensions: 2.3, 0.3, and 3.9. The part has a central hole and two side holes. The table provides data for two columns, A and B, with four rows of values.

Figure 1 consists of two schematic diagrams illustrating the experimental setup. The left diagram, labeled 'Control', shows a subject's eye at a distance of 10.16 cm from a target. The target is a circle with a diameter of 2.54 cm. The viewing angle is indicated as 13.01°. The right diagram, labeled 'Occluded', shows a similar setup but with a vertical barrier between the subject and the target. The target is a circle with a diameter of 2.54 cm. The viewing angle is indicated as 13.01°. Both diagrams include dimensions for viewing distance (10.16 cm), target size (2.54 cm), and viewing angle (13.01°).

Technical drawing of a roof section showing a cross-section of a roof with a parapet wall. The drawing includes dimensions for the roof thickness (11.5), parapet wall height (min. 7), and various offsets (3.5, 2, 1.5, 3, 9.2, 0.85, 1.35). A formula $T=(P-1) \times 3.5$ is provided for the total length of the parapet wall.

a	b
13.18	20.32
18.26	25.40
23.34	30.48
28.42	35.56
33.50	40.64
38.58	45.72
43.66	50.80
48.74	55.08
53.82	60.96
58.90	66.04
68.98	71.12
69.06	76.20
74.14	81.28
79.22	86.36
84.30	91.44



Technical drawing of a rectangular plate with the following dimensions and features:

- Overall width: 10,16
- Overall height: 20,32
- Distance from left edge to first hole center: 10,16
- Distance between hole centers: $L2$
- Distance from right edge to last hole center: 5,08
- Distance from bottom edge to hole row: 7,7
- Hole diameter: $\varnothing 1,6 \pm 0,1$

Technical Data

Metal components

clamping part	nickel plated brass
clamping screw	nickel plated brass
clamping screw (optional)	galvanised and chromated steel
top version clamping screw	galvanised and chromated steel
socket contact	tinned bronze
header and solder pins	copper alloy
header contact for type 8142	tinned bronze
header contact for type 8543	tinned brass
wire protection	tinned bronze
Pin headers contact pin	M.S. tinned

Insulating housing

Polyamide 66/6, glass filled
 (no glass fill reinforcement in tier- type header or solderable parts)
 material in accordance with UL 94 V-0
 colour grey, similar to RAL 7032
 Pin headers: Polyamide 66/6, glass filled

Abbreviations for plastic material markings:

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

Clamping Screw

There are optional materials available for the clamping screw of the PCB connectors and terminals. To order a steel screw in place of a standard brass screw change the 8th digit of the part number from a 5 to a 0.

25.163.0253.0

5 = nickel plated brass screw
 0 = galvanised and chromated steel screw

Technical Data

Torque of screw connection

Excerpt from EN 60 947-1

Column I: Applies to headless screws, that do not protrude from the threaded hole

Column II: Applies to nuts and screws that are tightened with a screwdriver

Column III: Applies to nuts and screws that can be tightened with tools other than a screwdriver

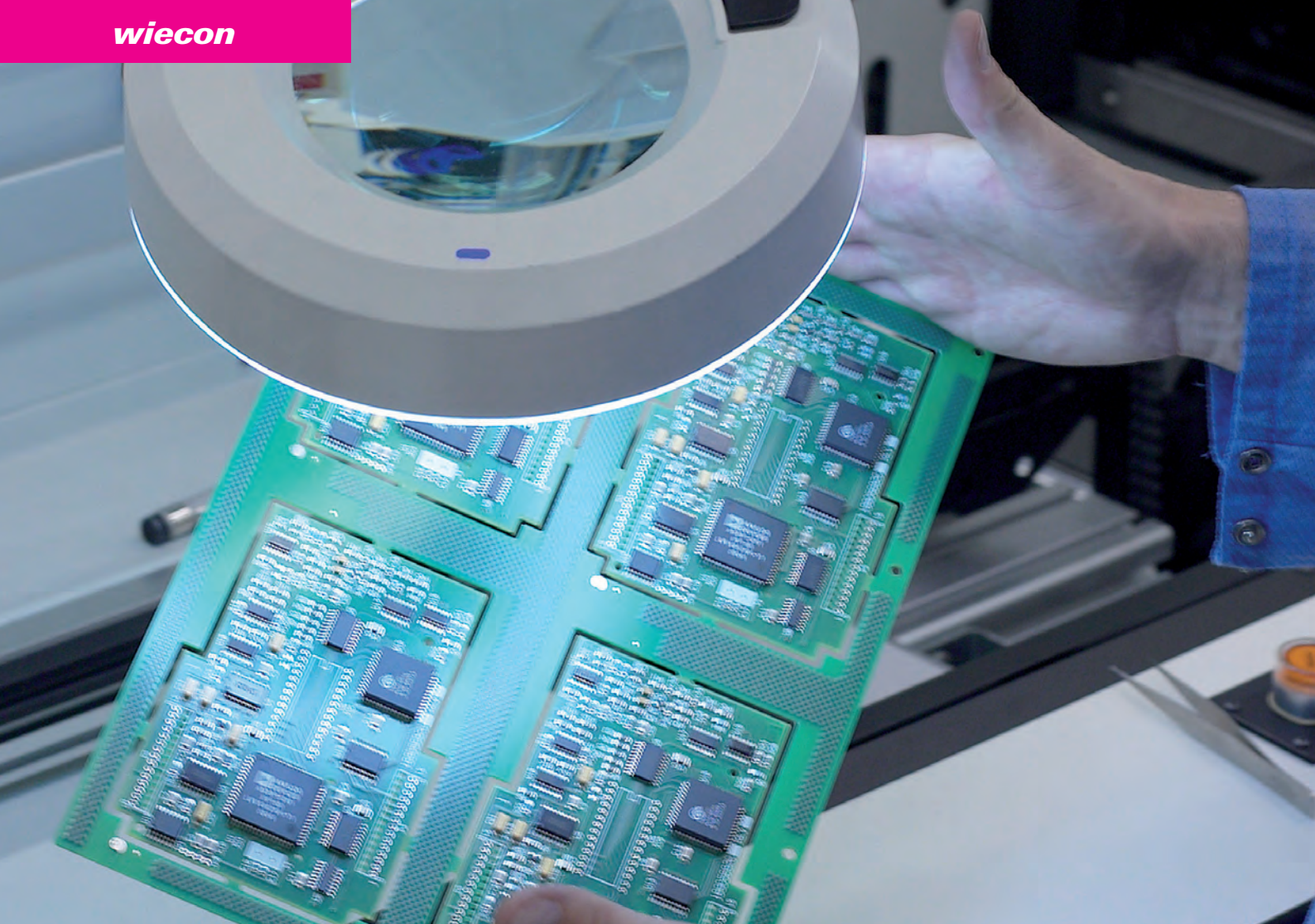
Thread diameter (mm) Metric standard values	Tightening torque (Nm) Column I	Tightening torque (Nm) Column II	Tightening torque (Nm) Column III
1.6	0.05	0.1	0.1
2.0	0.1	0.2	0.2
2.5	0.2	0.4	0.4
3.0	0.25	0.5	0.5
3.2	0.3	0.6	0.6
3.5	0.4	0.8	0.8
4	0.7	1.2	1.2
4.5	0.8	1.8	1.8
5	0.8	2.0	2.0
6	1.2	2.5	3.0
8	2.5	3.5	6.0
10		4.0	10.0
12			14.0
14			19.0
16			25.0
20			36.0
24			50.0

Electrical and thermal characteristics of plastic materials

Abbreviations for plastic material markings:

PA = Polyamide

			PA 6	PA 6 GF	PA 66	PA 66 GF	PA 66/6	PA 66/6 GF
Dielectric strength	VDE 0303-T21	IEC 243/1	100 / 60 kV	40 / 31 kV	120 / 80 kV	80 / 65 kV	55 / 45 kV	26 / 23 kV
Dielectric loss @ 1 MHz	VDE 0303-T4	IEC 250	0.03 / 0.3	0.015 / -	0.025 / 0.2	0.02 / 0.1	0.02 / 0.3	0.016 / -
Feed through resistance	VDE 0303-T30	IEC 93	10 ¹² Ω	10 ¹¹ Ω	10 ¹² Ω	10 ¹² Ω	10 ¹² Ω	10 ¹⁵ Ω
Surface resistance	VDE 0303-T30	IEC 93	10 ¹⁰ Ω	10 ¹⁰ Ω	10 ¹⁰ Ω	10 ¹⁰ Ω	10 ¹⁰ Ω	10 ¹⁴ Ω
Creepage	VDE 0303-T1	IEC 112	600 CTI	550 CTI	600 CTI	550 CTI	600 CTI	325 CTI
Operating temperature	UL 746 B		130 °C	140 °C	125 °C	115 °C	120 °C	140 °C
Temperature index	VDE 0304 T21	IEC 216-1	100 / 80 °C	185 / 160 °C	118 / 101 °C	157 / 139 °C	123 / 107 °C	
Static lower temperature			-40 °C	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
Flammability	UL 94		V2 @ 1.5mm	V2 @ 0.8mm	V2 @ 0.4mm	V0 @ 0.8mm	V0 @ 0.4mm	V0 @ 1.5mm

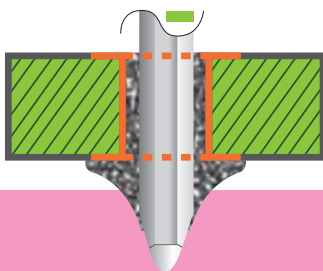


Quality of the Soldering Point

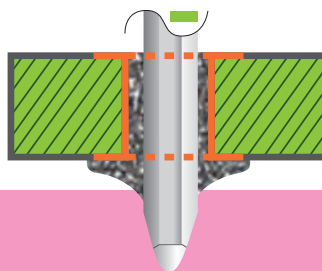
Soldering points made with the THR process differ from those made by other manufacturing processes due to the nature of the process involved. With longer pin lengths (2.6 mm), the soldering points can be viewed and evaluated in accordance with IPC-A-610C. Comparing soldering points from the wave soldering bath with those of THR, the THR connections appear somewhat thinner since the soldering meniscus is less developed. This property must

be evaluated from a quality assurance standpoint and defined accordingly.

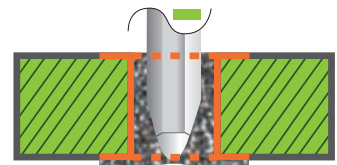
When it has been decided that an application needs a shorter pin length (1.5 mm), evaluation as per IPC-A-610C is not possible since there is no soldering meniscus left. A standard must then be defined together with quality assurance and production.



Wave soldering



THR soldering

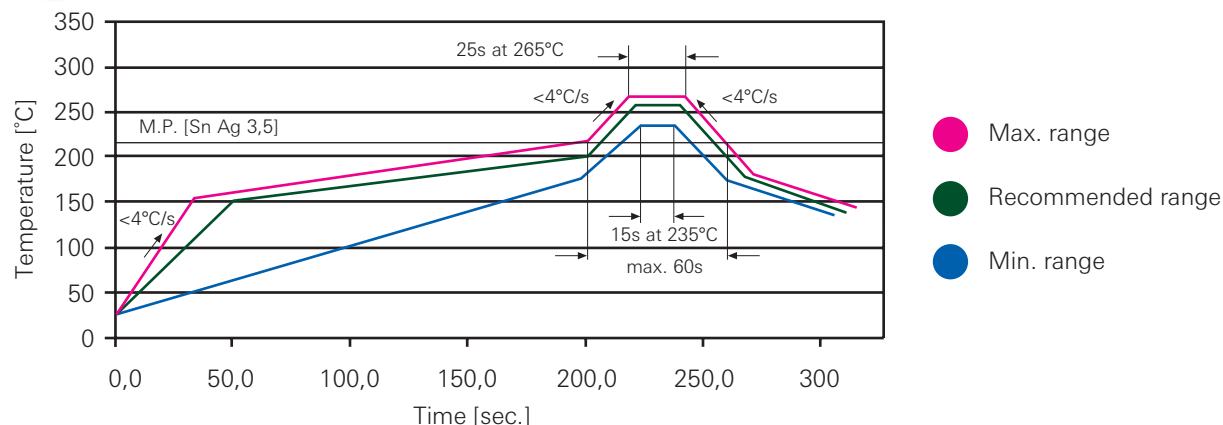


THR soldering with short pin

Through Hole Reflow (THR)



Temperature Requirements



THR differs from the wave soldering procedure in two ways, i.e. in the lower maximum temperature of the component during the reflow process and in the length of the process which at 300 s, takes almost three times as long as wave soldering.

Conventionally used plastics such as PA 66 which is used almost everywhere cannot withstand this range.

These plastics blister during the soldering process („popcorn effect“).

This makes it necessary to use another plastic which can withstand the special requirements of reflow soldering.



THR Components

The primary demands on THR components are their ability to be automatically configured, the optimal heat distribution on the pin and the THR temperature profile.

Temperature resistant material

In accordance with THR requirement

Smooth surface or suction pad

for automatic configuration
(dark for optical contrast)

Studs

Distance for heat
and contact area

Heat access

Free space for
equalized
heat distribution

Contact zone

Free space for
pad design and
heat distribution

Pin length

For soldering point as per
standard

Max. height 29 mm

Restricted by
the stroke of the automatic
pick and place machines ...
(Pick & Placer)

Technical Data

THR Template Layout

The PC board layout must be adjusted to the reflow process in order to establish a high-quality soldering point. Two things must be observed in this connection regarding the PC board layout.

Drilled Hole Diameter

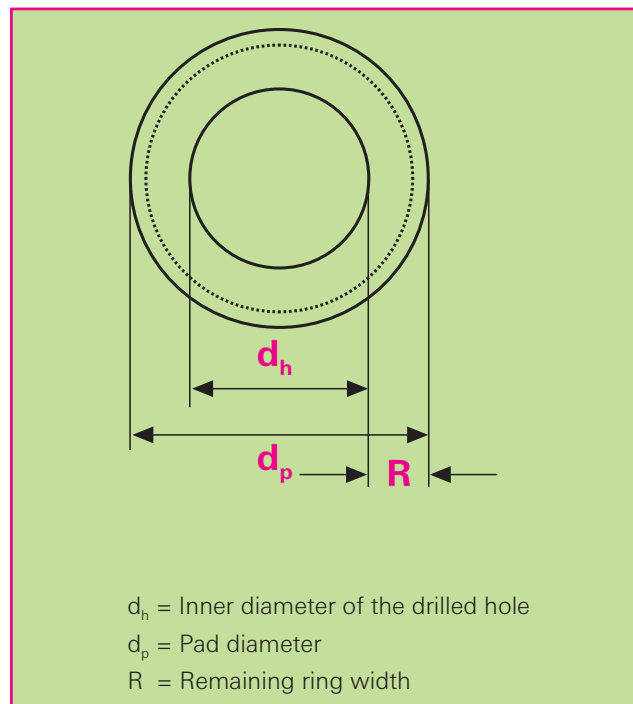
The drilled hole diameter must be selected to permit a good reflow of the solder from the pin back into the hole (i.e. by capillary action). It should also offer a size which can be automatically configured in accordance with the component tolerances.

Series	Spacing	Number of Poles	Pin Diagonals	d_h
8113 / 8213	5.0/ 5.08	≤ 8	1.2 mm	1.5 mm
8113 / 8213	5.0/ 5.08	≥ 8	1.2 mm	1.6 mm
8513 / 8813	3.5/ 3.81	≤ 5	1.0 mm	1.2 mm
8513 / 8813	3.5/ 3.81	≥ 5	1.0 mm	1.3 mm

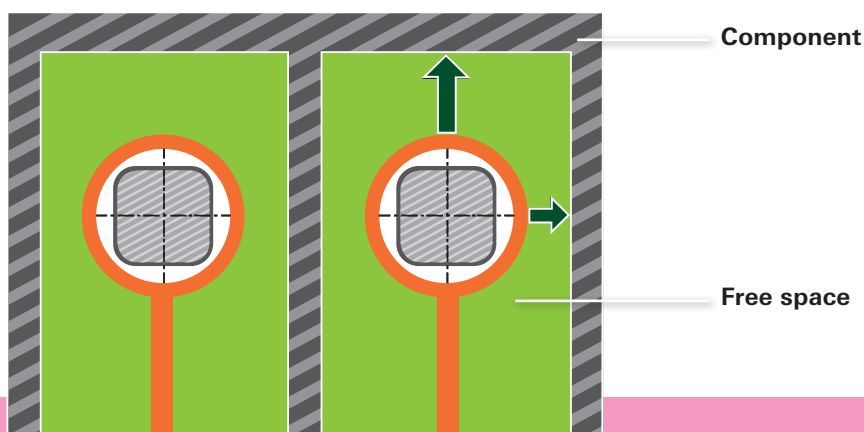
Remaining Ring and Pad Geometry

The soldering meniscus forms on the remaining ring. Since these should be easy to judge, we recommend the following values.

Series	Spacing	R	d_p
8113 / 8213	5.0/ 5.08	0.5 mm	2.5 mm
8513 / 8813	3.5/ 3.81	0.35 – 0.4 mm	2.0 mm



Where the soldering pads are of smaller design due to seepage and air gap distances, an additional solder depot can be created below the component by specified excess pressure. The space held free by the structure in the contact zone prevents the contact between paste and component.



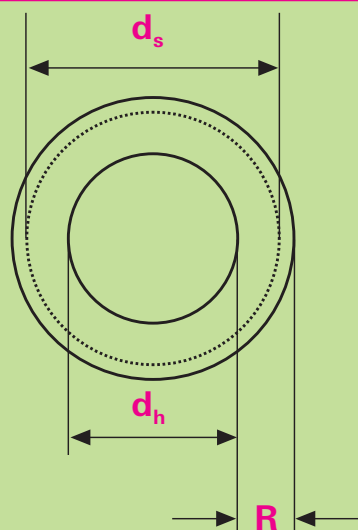
This is possible when increased demands on seepage and air gap distances place restrictions on the remaining ring widths. However, the parameters which can be executed must then be determined by trial and error. A remaining ring width of up to 0.2 mm is generally considered safe from a technical processing point of view.

If the application does not permit use of a continuous pin (1 = 2.6), short pins are also available (1 = 1.5). Double-sided configuration is possible with these pins.

Technical Data

THR Template Layout

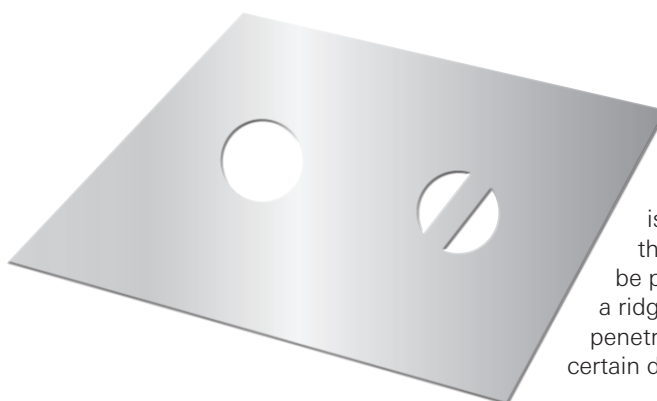
The template layout depends on the components used by the application. Depending on the application, simple templates as well as phase templates can be used. A template layout like the one shown below is always recommended.



d_s = Template of the hole diameter
 d_h = Inner diameter of the drilled hole
 R = Remaining ring width

$$d_s = d_h + 2R - 0.1$$

In case there is not enough solder, the template hole can be enlarged to ensure a specified amount of excess pressure.



In case there is too much solder, the templates can be provided with a ridge. This prevents penetration to a certain degree.

Application of the Soldering Paste

The challenge in achieving optimum soldering paste pressure lies in gauging the right amount of solder accurately. One standard value says that approx. 50% of the solder vaporizes during the soldering procedure (i.e., double the amount of solder must be used than is actually required). This can be influenced in different ways.

Multiple Spreading

The soldering paste is spread with a blade on the PC board. In cases where the whole amount cannot be applied in one step, the paste can be applied a second time in the same way.

Varying the Spreading Angle (a)

To achieve greater insertion pressure, a smaller spreading angle can be used.

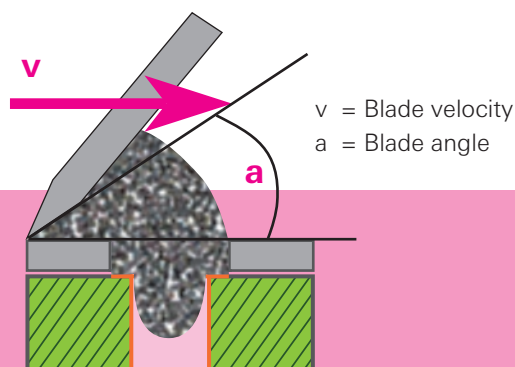
Varying the Spreading Velocity (v)

Varying the spreading velocity changes the amount of time available to the soldering paste to flow into the hole. Reducing the spreading velocity allows more solder to flow into the hole while increasing the velocity allows less solder to flow into the hole.

Varying the Dot Mask Thickness

A phase template can be used to increase the dot mask thickness at the necessary location. Due to the resulting increase in volume, more solder can be deposited.

These adjustment mechanisms usually produce the desired results and, in combination, permit an efficient application of pressure.



Index

01.060.0253.0	93	25.000.1056.0	107	25.130.0253.0	14	25.150.0953.0	34	25.157.4453.0	41	25.162.1353.0	12
01.060.0353.0	93	25.000.1156.0	107	25.130.0353.0	14	25.150.1053.0	34	25.157.4553.0	41	25.162.1453.0	12
01.060.0453.0	93	25.000.1256.0	107	25.130.0453.0	14	25.150.1153.0	34	25.157.4653.0	41	25.162.1553.0	12
01.060.0553.0	93	25.000.1356.0	107	25.130.0553.0	14	25.150.1253.0	34	25.157.4753.0	41	25.162.1653.0	12
01.060.0653.0	93	25.000.1456.0	107	25.130.0653.0	14	25.151.0253.0	34	25.157.5253.0	41	25.162.6253.0	12
01.060.0753.0	93	25.000.1556.0	107	25.130.0753.0	14	25.151.0353.0	34	25.157.5353.0	41	25.162.6353.0	12
01.060.0853.0	93	25.000.1656.0	107	25.130.0853.0	14	25.151.0453.0	34	25.157.5453.0	41	25.162.6453.0	12
01.060.0953.0	93	25.001.0256.0	107	25.130.0953.0	14	25.151.0553.0	34	25.157.5553.0	41	25.162.6553.0	12
01.060.1053.0	93	25.001.0356.0	107	25.130.1053.0	14	25.151.0653.0	34	25.157.5653.0	41	25.162.6653.0	12
01.060.1153.0	93	25.001.0456.0	107	25.130.1153.0	14	25.151.0753.0	34	25.157.5753.0	41	25.162.6753.0	12
01.060.1253.0	93	25.001.0556.0	107	25.130.1253.0	14	25.151.0853.0	34	25.160.0253.0	12	25.162.6853.0	12
01.060.1353.0	93	25.001.0656.0	107	25.130.1353.0	14	25.151.0953.0	34	25.160.0353.0	12	25.162.6953.0	12
01.060.1453.0	93	25.001.0756.0	107	25.130.1453.0	14	25.151.1053.0	34	25.160.0453.0	12	25.162.7053.0	12
01.060.1553.0	93	25.001.0856.0	107	25.130.1553.0	14	25.151.1153.0	34	25.160.0553.0	12	25.162.7153.0	12
01.060.1653.0	93	25.001.0956.0	107	25.130.1653.0	14	25.151.1253.0	34	25.160.0653.0	12	25.162.7253.0	12
01.060.3253.0	93	25.001.1056.0	107	25.130.3253.0	26	25.155.0253.0	13	25.160.0753.0	12	25.162.7353.0	12
01.060.3353.0	93	25.001.1156.0	107	25.130.3353.0	26	25.155.0353.0	13	25.160.0853.0	12	25.162.7453.0	12
01.060.3453.0	93	25.001.1256.0	107	25.130.3453.0	26	25.155.0453.0	13	25.160.0953.0	12	25.162.7553.0	12
01.060.3553.0	93	25.001.1356.0	107	25.130.3553.0	26	25.155.0553.0	13	25.160.1053.0	12	25.162.7653.0	12
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01.060.4353.0	93	25.002.0653.0	106	25.131.0253.0	14	25.155.1353.0	13	25.160.6353.0	12	25.163.0953.0	12
01.060.4453.0	93	25.002.0753.0	106	25.131.0353.0	14	25.155.1453.0	13	25.160.6453.0	12	25.163.1053.0	12
01.060.4553.0	93	25.002.0853.0	106	25.131.0453.0	14	25.155.2253.0	13	25.160.6553.0	12	25.163.1153.0	12
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02.125.1600.0	93	25.002.1153.0	106	25.131.0753.0	14	25.155.2553.0	13	25.160.6853.0	12	25.163.1453.0	12
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02.125.1729.0	93	25.003.0653.0	106	25.131.1353.0	14	25.155.3153.0	13	25.160.7453.0	12	25.163.6553.0	12
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04.007.4589.0	122	25.003.1253.0	106	25.131.3453.0	26	25.156.0453.0	13	25.161.0553.0	12	25.163.7153.0	12
04.007.4689.0	122	25.004.0253.0	106	25.131.3553.0	26	25.156.0553.0	13	25.161.0653.0	12	25.163.7253.0	12
04.007.4789.0	122	25.004.0353.0	106	25.131.3653.0	26	25.156.0653.0	13	25.161.0753.0	12	25.163.7353.0	12
04.007.4889.0	122	25.004.0453.0	106	25.131.3753.0	26	25.156.0753.0	13	25.161.0853.0	12	25.163.7453.0	12
04.242.0850.0	122	25.004.0553.0	106	25.131.3853.0	26	25.156.0853.0	13	25.161.0953.0	12	25.163.7553.0	12
04.242.4653.0	122	25.004.0653.0	106	25.131.3953.0	26	25.156.0953.0	13	25.161.1053.0	12	25.163.7653.0	12
04.242.5053.0	122	25.004.0753.0	106	25.131.4053.0	26	25.156.1053.0	13	25.161.1153.0	12	25.164.0253.0	32
05.502.2500.0	123	25.004.0853.0	106	25.131.4153.0	26	25.156.1153.0	13	25.161.1253.0	12	25.164.0353.0	32
05.502.2500.0	123	25.004.0953.0	106	25.131.4253.0	26	25.156.1253.0	13	25.161.1353.0	12	25.164.3253.0	33
05.502.2500.0	93	25.004.1053.0	106	25.132.0253.0	14	25.156.1353.0	13	25.161.1453.0	12	25.164.3353.0	33
05.502.2500.0	93	25.004.1153.0	106	25.132.0353.0	14	25.156.1453.0	13	25.161.1553.0	12	25.164.6253.0	33
05.561.0053.0	118	25.004.1253.0	106	25.132.0453.0	14	25.156.2253.0	13	25.161.1653.0	12	25.164.6353.0	33
05.561.0053.0	118	25.005.0253.0	106	25.132.0553.0	14	25.156.2353.0	13	25.161.6253.0	12	25.165.0253.0	32
05.561.9153.0	118	25.005.0353.0	106	25.132.0653.0	14	25.156.2453.0	13	25.161.6353.0	12	25.165.0353.0	32
05.561.9153.0	118	25.005.0453.0	106	25.132.0753.0	14	25.156.2553.0	13	25.161.6453.0	12	25.165.3253.0	32
05.561.9453.0	119	25.005.0553.0	106	25.132.0853.0	14	25.156.2653.0	13	25.161.6553.0	12	25.165.3353.0	32
05.561.9453.0	119	25.005.0653.0	106	25.132.0953.0	14	25.156.2753.0	13	25.161.6653.0	12	25.165.6253.0	33
05.561.9453.5	119	25.005.0753.0	106	25.132.1053.0	14	25.156.2853.0	13	25.161.6753.0	12	25.165.6353.0	33
05.561.9453.5	119	25.005.0853.0	106	25.132.1153.0	14	25.156.2953.0	13	25.161.6853.0	12	25.166.0253.0	32
07.300.2753.0	40	25.005.0953.0	106	25.132.1253.0	14	25.156.3053.0	13	25.161.6953.0	12	25.166.0353.0	32
07.300.4753.0	20	25.005.1053.0	106	25.133.0253.0	14	25.156.3153.0	13	25.161.7053.0	12	25.166.3253.0	33
07.300.4753.0	20	25.005.1153.0	106	25.133.0353.0	14	25.156.3253.0	13	25.161.7153.0	12	25.166.3353.0	33
07.300.4753.0	21	25.005.1253.0	106	25.133.0453.0	14	25.156.3353.0	13	25.161.7253.0	12	25.166.6253.0	33
07.300.4753.0	21	25.010.0256.0	107	25.133.0553.0	14	25.156.3453.0	13	25.161.7353.0	12	25.166.6353.0	33
07.300.4753.0	36	25.010.0356.0	107	25.133.0653.0	14	25.157.0253.0	41	25.161.7453.0	12	25.167.0253.0	32
07.300.4753.0	36	25.010.0456.0	107	25.133.0753.0	14	25.157.0353.0	41	25.161.7553.0	12	25.167.0353.0	32
07.300.4753.0	37	25.010.0556.0	107	25.133.0853.0	14	25.157.0453.0	41	25.161.7653.0	12	25.167.3253.0	32
07.300.4753.0	37	25.010.0656.0	107	25.133.0953.0	14	25.157.0553.0	41	25.162.0253.0	12	25.167.3353.0	32
07.310.9853.0	118	25.010.0756.0	107	25.133.1053.0	14	25.157.0653.0	41	25.162.0353.0	12	25.167.6253.0	33
07.310.9853.0	118	25.010.0856.0	107	25.133.1153.0	14	25.157.0753.0	41	25.162.0453.0	12	25.167.6353.0	33
25.000.0256.0	107	25.010.0956.0	107	25.133.1253.0	14	25.157.1253.0	41	25.162.0553.0	12	25.168.0253.0	42
25.000.0356.0	107	25.010.1056.0	107	25.150.0253.0	34	25.157.1353.0	41	25.162.0653.0	12	25.168.0353.0	42
25.000.0456.0	107	25.010.1156.0	107	25.150.0353.0	34	25.157.1453.0	41	25.162.0753.0	12	25.168.4253.0	42
25.000.0556.0	107	25.010.1256.0	107	25.150.0453.0	34	25.157.1553.0	41	25.162.0853.0	12	25.168.4353.0	42
25.000.0656.0	107	25.010.1356.0	107	25.150.0553.0	34	25.157.1653.0	41	25.162.0953.0	12	25.169.0253.0	42
25.000.0756.0	107	25.010.1456.0	107	25.150.0653.0	34	25.157.1753.0	41	25.162.1053.0	12	25.169.0353.0	42
25.000.0856.0	107	25.010.1556.0	107	25.150.0753.0	34	25.157.4253.0	41				

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25.174.0253.0	33	25.180.6053.0	28	25.192.0353.0	10	25.195.9353.0	9	25.199.5953.0	24	25.245.3253.0	97
25.174.0353.0	33	25.180.6153.0	28	25.192.0453.0	10	25.196.0253.0	9	25.199.6053.0	24	25.245.3353.0	97
25.175.0253.0	32	25.180.6253.0	28	25.192.0553.0	10	25.196.0353.0	9	25.199.6153.0	24	25.245.3453.0	97
25.175.0353.0	32	25.180.9253.0	28	25.192.0653.0	10	25.196.0453.0	9	25.199.6253.0	24	25.245.3553.0	97
25.176.0253.0	33	25.180.9353.0	28	25.192.0753.0	10	25.196.0553.0	9	25.199.9253.0	24	25.245.3653.0	97
25.176.0353.0	33	25.181.0253.0	28	25.192.0853.0	10	25.196.0653.0	9	25.199.9353.0	24	25.245.3753.0	97
25.177.0253.0	32	25.181.0353.0	28	25.192.0953.0	10	25.196.0753.0	9	25.220.0253.0	97	25.245.3853.0	97
25.177.0353.0	32	25.181.0453.0	28	25.192.1053.0	10	25.196.0853.0	9	25.220.0353.0	97	25.245.3953.0	97
25.178.0253.0	25	25.181.0553.0	28	25.192.1153.0	10	25.196.0953.0	9	25.220.0453.0	97	25.245.4053.0	97
25.178.0353.0	25	25.181.0653.0	28	25.192.1253.0	10	25.196.1053.0	9	25.220.0553.0	97	25.245.4153.0	97
25.178.0453.0	25	25.181.0753.0	28	25.192.1353.0	10	25.196.1153.0	9	25.220.0653.0	97	25.245.4253.0	97
25.178.0553.0	25	25.181.0853.0	28	25.192.1453.0	10	25.196.1253.0	9	25.220.0753.0	97	25.245.4353.0	97
25.178.0653.0	25	25.181.0953.0	28	25.192.1553.0	10	25.196.1353.0	9	25.220.0853.0	97	25.245.4453.0	97
25.178.0753.0	25	25.181.1053.0	28	25.192.1653.0	10	25.196.1453.0	9	25.220.0953.0	97	25.245.4553.0	97
25.178.0853.0	25	25.181.1153.0	28	25.192.9253.0	10	25.196.1553.0	9	25.220.1053.0	97	25.245.4653.0	97
25.178.0953.0	25	25.181.1253.0	28	25.192.9353.0	10	25.196.1653.0	9	25.220.1153.0	97	25.303.0253.0	108
25.178.1053.0	25	25.181.4253.0	28	25.193.0253.0	10	25.196.9253.0	9	25.220.1253.0	97	25.303.0353.0	108
25.178.1153.0	25	25.181.4353.0	28	25.193.0353.0	10	25.196.9353.0	9	25.220.1353.0	97	25.303.0453.0	108
25.178.1253.0	25	25.181.5253.0	28	25.193.0453.0	10	25.197.0253.0	9	25.220.1453.0	97	25.303.0553.0	108
25.178.4253.0	25	25.181.5353.0	28	25.193.0553.0	10	25.197.0353.0	9	25.220.1553.0	97	25.303.0653.0	108
25.178.4353.0	25	25.181.5453.0	28	25.193.0653.0	10	25.197.0453.0	9	25.220.1653.0	97	25.303.0753.0	108
25.178.5253.0	25	25.181.5553.0	28	25.193.0753.0	10	25.197.0553.0	9	25.220.3253.0	97	25.303.0853.0	108
25.178.5353.0	25	25.181.5653.0	28	25.193.0853.0	10	25.197.0653.0	9	25.220.3353.0	97	25.303.0953.0	108
25.178.5453.0	25	25.181.5753.0	28	25.193.0953.0	10	25.197.0753.0	9	25.220.3453.0	97	25.303.1053.0	108
25.178.5553.0	25	25.181.5853.0	28	25.193.1053.0	10	25.197.0853.0	9	25.220.3553.0	97	25.303.1153.0	108
25.178.5653.0	25	25.181.5953.0	28	25.193.1153.0	10	25.197.0953.0	9	25.220.3653.0	97	25.303.1253.0	108
25.178.5753.0	25	25.181.6053.0	28	25.193.1253.0	10	25.197.1053.0	9	25.220.3753.0	97	25.303.1353.0	108
25.178.5853.0	25	25.181.6153.0	28	25.193.1353.0	10	25.197.1153.0	9	25.220.3853.0	97	25.303.1453.0	108
25.178.5953.0	25	25.181.6253.0	28	25.193.1453.0	10	25.197.1253.0	9	25.220.3953.0	97	25.303.1553.0	108
25.178.6053.0	25	25.181.9253.0	28	25.193.1553.0	10	25.197.1353.0	9	25.220.4053.0	97	25.303.1653.0	108
25.178.6153.0	25	25.181.9353.0	28	25.193.1653.0	10	25.197.1453.0	9	25.220.4153.0	97	25.303.3253.0	108
25.178.6253.0	25	25.190.0253.0	10	25.193.6253.0	11	25.197.1553.0	9	25.220.4253.0	97	25.303.3353.0	108
25.178.9253.0	25	25.190.0353.0	10	25.193.6353.0	11	25.197.1653.0	9	25.220.4353.0	97	25.303.3453.0	108
25.178.9353.0	25	25.190.0453.0	10	25.193.6453.0	11	25.197.9253.0	9	25.220.4453.0	97	25.303.3553.0	108
25.179.0253.0	25	25.190.0553.0	10	25.193.6553.0	11	25.197.9353.0	9	25.220.4553.0	97	25.303.3653.0	108
25.179.0353.0	25	25.190.0653.0	10	25.193.6653.0	11	25.198.0253.0	24	25.220.4653.0	97	25.303.3753.0	108
25.179.0453.0	25	25.190.0753.0	10	25.193.6753.0	11	25.198.0353.0	24	25.240.0253.0	97	25.303.3853.0	108
25.179.0553.0	25	25.190.0853.0	10	25.193.6853.0	11	25.198.0453.0	24	25.240.0353.0	97	25.303.3953.0	108
25.179.0653.0	25	25.190.0953.0	10	25.193.6953.0	11	25.198.0553.0	24	25.240.0453.0	97	25.303.4053.0	108
25.179.0753.0	25	25.190.1053.0	10	25.193.7053.0	11	25.198.0653.0	24	25.240.0553.0	97	25.303.4153.0	108
25.179.0853.0	25	25.190.1153.0	10	25.193.7153.0	11	25.198.0753.0	24	25.240.0653.0	97	25.303.4253.0	108
25.179.0953.0	25	25.190.1253.0	10	25.193.7253.0	11	25.198.0853.0	24	25.240.0753.0	97	25.303.4353.0	108
25.179.1053.0	25	25.190.1353.0	10	25.193.7353.0	11	25.198.0953.0	24	25.240.0853.0	97	25.303.4453.0	108
25.179.1153.0	25	25.190.1453.0	10	25.193.7453.0	11	25.198.1053.0	24	25.240.0953.0	97	25.303.4553.0	108
25.179.1253.0	25	25.190.1553.0	10	25.193.7553.0	11	25.198.1153.0	24	25.240.1053.0	97	25.303.4653.0	108
25.179.4253.0	25	25.190.1653.0	10	25.193.7653.0	11	25.198.1253.0	24	25.240.1153.0	97	25.313.0253.0	108
25.179.4353.0	25	25.190.9253.0	10	25.193.9253.0	10	25.198.4253.0	24	25.240.1253.0	97	25.313.0353.0	108
25.179.5253.0	25	25.190.9353.0	10	25.193.9353.0	10	25.198.4353.0	24	25.240.1353.0	97	25.313.0453.0	108
25.179.5353.0	25	25.191.0253.0	10	25.194.0253.0	9	25.198.5253.0	24	25.240.1453.0	97	25.313.0553.0	108
25.179.5453.0	25	25.191.0353.0	10	25.194.0353.0	9	25.198.5353.0	24	25.240.1553.0	97	25.313.0653.0	108
25.179.5553.0	25	25.191.0453.0	10	25.194.0453.0	9	25.198.5453.0	24	25.240.1653.0	97	25.313.0753.0	108
25.179.5653.0	25	25.191.0553.0	10	25.194.0553.0	9	25.198.5553.0	24	25.240.3253.0	97	25.313.0853.0	108
25.179.5753.0	25	25.191.0653.0	10	25.194.0653.0	9	25.198.5653.0	24	25.240.3353.0	97	25.313.0953.0	108
25.179.5853.0	25	25.191.0753.0	10	25.194.0753.0	9	25.198.5753.0	24	25.240.3453.0	97	25.313.1053.0	108
25.179.5953.0	25	25.191.0853.0	10	25.194.0853.0	9	25.198.5853.0	24	25.240.3553.0	97	25.313.1153.0	108
25.179.6053.0	25	25.191.0953.0	10	25.194.0953.0	9	25.198.5953.0	24	25.240.3653.0	97	25.313.1253.0	108
25.179.6153.0	25	25.191.1053.0	10	25.194.1053.0	9	25.198.6053.0	24	25.240.3753.0	97	25.313.1353.0	108
25.179.6253.0	25	25.191.1153.0	10	25.194.1153.0	9	25.198.6153.0	24	25.240.3853.0	97	25.313.1453.0	108
25.179.9253.0	25	25.191.1253.0	10	25.194.1253.0	9	25.198.6253.0	24	25.240.3953.0	97	25.313.1553.0	108
25.179.9353.0	25	25.191.1353.0	10	25.194.1353.0	9	25.198.9253.0	24	25.240.4053.0	97	25.313.1653.0	108
25.180.0253.0	28	25.191.1453.0	10	25.194.1453.0	9	25.198.9353.0	24	25.240.4153.0	97	25.313.3253.0	108
25.180.0353.0	28	25.191.1553.0	10	25.194.1553.0	9	25.199.0253.0	24	25.240.4253.0	97	25.313.3353.0	108
25.180.0453.0	28	25.191.1653.0	10	25.194.1653.0	9	25.199.0353.0	24	25.240.4353.0	97	25.313.3453.0	108
25.180.0553.0	28	25.191.6253.0	11	25.194.9253.0	9	25.199.0453.0	24	25.240.4453.0	97	25.313.3553.0	108
25.180.0653.0	28	25.191.6353.0	11	25.194.9353.0	9	25.199.0553.0	24	25.240.4553.0	97	25.313.3653.0	108
25.180.0753.0	28	25.191.6453.0	11	25.195.0253.0	9	25.199.0653.0	24	25.240.4653.0	97	25.313.3753.0	108
25.180.0853.0	28	25.191.6553.0	11	25.195.0353.0	9	25.199.0753.0	24	25.245.0253.0	97	25.313.3853.0	108
25.180.0953.0	28	25.191.6653.0	11	25.195.0453.0	9	25.199.0853.0	24	25.245.0353.0	97	25.313.3953.0	108
25.180.1053.0	28	25.191.6753.0	11	25.195.0553.0	9	25.199.0953.0	24	25.245.0453.0	97	25.313.4053.0	108
25.180.1153.0	28	25.191.6853.0	11	25.195.0653.0	9	25.199.1053.0	24	25.245.0553.0	97	25.313.4153.0	108
25.180.1253.0	28	25.191.6953.0	11	25.195.0753.0	9	25.199.1153.0	24	25.245.0653.0	97	25.313.4253.0	108
25.180.4253.0	28	25.191.7053.0	11	25.195.0853.0	9	25.199.1253.0	24	25.245.0753.0	97	25.313.4353.0	108
25.180.4353.0	28	25.191.7153.0	11	25.195.0953.0	9	25.199.4253.0	24	25.245.0853.0	97	25.313.4453.0	108
25.180.5253.0	28	25.191.7253.0	11	25.195.1053.0	9	25.199.4353.0	24	25.245.0953.0	97	25.313.4553.0	108
25.180.5353.0	28	25.191.7353.0	11	25.195.1153.0	9	25.199.5253.0	24	25.245.1053.0	97	25.313.4653.0	108
25.180.5453.0	28	25.191.7453.0	11	25.195.1253.0	9	25.199.5353.0	24	25.245.1153.0	97	25.320.0253.0	89
25.180.5553.0	28	25.191.7553.0	11	25.195.1353.0	9	25.199.5453.0	24	25.245.1253.0	97	25.320.0353.0	89
25.180.5653.0	28	25.191.7653.0	11	25.195.1453.0	9	25.199.5553.0	24	25.245.1353.0	97	25.320.0453.0	89
25.180.5753.0	28	25.191.9253.0	10	25.195.1553.0	9	25.199.5653.0	24	25.245.1453.0	97	25.320.0553.0	89
25.180.5853.0	28	25.191.9353.0	10	25.195.1653.0	9	25.199.5753.0	24	25.245.1553.0	97	25.320.0653.0	89
25.180.5953.0	28	25.192.0253.0	10	25.195.9253.0							

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25.320.0853.0	89	25.323.4453.0	89	25.326.0653.0	91	25.339.3253.0	68	25.343.0853.0	98	25.345.4453.0	90
25.320.0953.0	89	25.323.4553.0	89	25.326.0753.0	91	25.339.3353.0	68	25.343.0953.0	98	25.345.4553.0	90
25.320.1053.0	89	25.323.4653.0	89	25.326.0853.0	91	25.339.3453.0	68	25.343.1053.0	98	25.345.4653.0	90
25.320.1153.0	89	25.324.0253.0	100	25.326.0953.0	91	25.339.3553.0	68	25.343.1153.0	98	25.346.0253.0	91
25.320.1253.0	89	25.324.0353.0	100	25.326.1053.0	91	25.339.3653.0	68	25.343.1253.0	98	25.346.0353.0	91
25.320.1353.0	89	25.324.0453.0	100	25.326.1153.0	91	25.339.3753.0	68	25.343.1353.0	98	25.346.0453.0	91
25.320.1453.0	89	25.324.0553.0	100	25.326.1253.0	91	25.339.3853.0	68	25.343.1453.0	98	25.346.0553.0	91
25.320.1553.0	89	25.324.0653.0	100	25.326.1353.0	91	25.339.3953.0	68	25.343.1553.0	98	25.346.0653.0	91
25.320.1653.0	89	25.324.0753.0	100	25.326.1453.0	91	25.339.4053.0	68	25.343.1653.0	98	25.346.0753.0	91
25.320.3253.0	89	25.324.0853.0	100	25.326.1553.0	91	25.339.4153.0	68	25.343.3253.0	98	25.346.0853.0	91
25.320.3353.0	89	25.324.0953.0	100	25.326.1653.0	91	25.339.4253.0	68	25.343.3353.0	98	25.346.0953.0	91
25.320.3453.0	89	25.324.1053.0	100	25.326.3253.0	91	25.339.4353.0	68	25.343.3453.0	98	25.346.1053.0	91
25.320.3553.0	89	25.324.1153.0	100	25.326.3353.0	91	25.339.4453.0	68	25.343.3553.0	98	25.346.1153.0	91
25.320.3653.0	89	25.324.1253.0	100	25.326.3453.0	91	25.339.4553.0	68	25.343.3653.0	98	25.346.1253.0	91
25.320.3753.0	89	25.324.2253.0	100	25.326.3553.0	91	25.339.4653.0	68	25.343.3753.0	98	25.346.1353.0	91
25.320.3853.0	89	25.324.2353.0	100	25.326.3653.0	91	25.340.0253.0	89	25.343.3853.0	98	25.346.1453.0	91
25.320.3953.0	89	25.324.2453.0	100	25.326.3753.0	91	25.340.0353.0	89	25.343.3953.0	98	25.346.1553.0	91
25.320.4053.0	89	25.324.2553.0	100	25.326.3853.0	91	25.340.0453.0	89	25.343.4053.0	98	25.346.1653.0	91
25.320.4153.0	89	25.324.2653.0	100	25.326.3953.0	91	25.340.0553.0	89	25.343.4153.0	98	25.346.3253.0	91
25.320.4253.0	89	25.324.2753.0	100	25.326.4053.0	91	25.340.0653.0	89	25.343.4253.0	98	25.346.3353.0	91
25.320.4353.0	89	25.324.2853.0	100	25.326.4153.0	91	25.340.0753.0	89	25.343.4353.0	98	25.346.3453.0	91
25.320.4453.0	89	25.324.2953.0	100	25.326.4253.0	91	25.340.0853.0	89	25.343.4453.0	98	25.346.3553.0	91
25.320.4553.0	89	25.324.3053.0	100	25.326.4353.0	91	25.340.0953.0	89	25.343.4553.0	98	25.346.3653.0	91
25.320.4653.0	89	25.324.3153.0	100	25.326.4453.0	91	25.340.1053.0	89	25.343.4653.0	98	25.346.3753.0	91
25.322.0253.0	89	25.324.3253.0	100	25.326.4553.0	91	25.340.1153.0	89	25.344.0253.0	90	25.346.3853.0	91
25.322.0353.0	89	25.324.4253.0	100	25.326.4653.0	91	25.340.1253.0	89	25.344.0353.0	90	25.346.3953.0	91
25.322.0453.0	89	25.324.4353.0	100	25.330.3253.0	66	25.340.1353.0	89	25.344.0453.0	90	25.346.4053.0	91
25.322.0553.0	89	25.324.4453.0	100	25.330.3353.0	66	25.340.1453.0	89	25.344.0553.0	90	25.346.4153.0	91
25.322.0653.0	89	25.324.4553.0	100	25.330.3453.0	66	25.340.1553.0	89	25.344.0653.0	90	25.346.4253.0	91
25.322.0753.0	89	25.324.4653.0	100	25.330.3553.0	66	25.340.1653.0	89	25.344.0753.0	90	25.346.4353.0	91
25.322.0853.0	89	25.324.4753.0	100	25.330.3653.0	66	25.340.3253.0	89	25.344.0853.0	90	25.346.4453.0	91
25.322.0953.0	89	25.324.4853.0	100	25.330.3753.0	66	25.340.3353.0	89	25.344.0953.0	90	25.346.4553.0	91
25.322.1053.0	89	25.324.4953.0	100	25.330.3853.0	66	25.340.3453.0	89	25.344.1053.0	90	25.346.4653.0	91
25.322.1153.0	89	25.324.5053.0	100	25.330.3953.0	66	25.340.3553.0	89	25.344.1153.0	90	25.349.0253.0	91
25.322.1253.0	89	25.324.5153.0	100	25.330.4053.0	66	25.340.3653.0	89	25.344.1253.0	90	25.349.0353.0	91
25.322.1353.0	89	25.324.5253.0	100	25.330.4153.0	66	25.340.3753.0	89	25.344.1353.0	90	25.349.0453.0	91
25.322.1453.0	89	25.324.6253.0	100	25.330.4253.0	66	25.340.3853.0	89	25.344.1453.0	90	25.349.0553.0	91
25.322.1553.0	89	25.324.6353.0	100	25.330.4353.0	66	25.340.3953.0	89	25.344.1553.0	90	25.349.0653.0	91
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25.322.3253.0	89	25.324.6553.0	100	25.330.4553.0	66	25.340.4153.0	89	25.344.3253.0	90	25.349.0853.0	91
25.322.3353.0	89	25.324.6653.0	100	25.330.4653.0	66	25.340.4253.0	89	25.344.3353.0	90	25.349.0953.0	91
25.322.3453.0	89	25.324.6753.0	100	25.332.3206.0	70	25.340.4353.0	89	25.344.3453.0	90	25.349.1053.0	91
25.322.3553.0	89	25.324.6853.0	100	25.332.3216.0	70	25.340.4453.0	89	25.344.3553.0	90	25.349.1153.0	91
25.322.3653.0	89	25.324.6953.0	100	25.332.3253.0	67	25.340.4553.0	89	25.344.3653.0	90	25.349.1253.0	91
25.322.3753.0	89	25.324.7053.0	100	25.332.3306.0	70	25.340.4653.0	89	25.344.3753.0	90	25.349.1353.0	91
25.322.3853.0	89	25.324.7153.0	100	25.332.3316.0	70	25.342.0253.0	98	25.344.3853.0	90	25.349.1453.0	91
25.322.3953.0	89	25.324.7253.0	100	25.332.3353.0	67	25.342.0353.0	98	25.344.3953.0	90	25.349.1553.0	91
25.322.4053.0	89	25.325.0253.0	90	25.332.3406.0	70	25.342.0453.0	98	25.344.4053.0	90	25.349.1653.0	91
25.322.4153.0	89	25.325.0353.0	90	25.332.3416.0	70	25.342.0553.0	98	25.344.4153.0	90	25.349.3253.0	91
25.322.4253.0	89	25.325.0453.0	90	25.332.3453.0	67	25.342.0653.0	98	25.344.4253.0	90	25.349.3353.0	91
25.322.4353.0	89	25.325.0553.0	90	25.332.3553.0	67	25.342.0753.0	98	25.344.4353.0	90	25.349.3453.0	91
25.322.4453.0	89	25.325.0653.0	90	25.332.3653.0	67	25.342.0853.0	98	25.344.4453.0	90	25.349.3553.0	91
25.322.4553.0	89	25.325.0753.0	90	25.332.3753.0	67	25.342.0953.0	98	25.344.4553.0	90	25.349.3653.0	91
25.322.4653.0	89	25.325.0853.0	90	25.332.3853.0	67	25.342.1053.0	98	25.344.4653.0	90	25.349.3753.0	91
25.323.0253.0	89	25.325.0953.0	90	25.332.3953.0	67	25.342.1153.0	98	25.345.0253.0	90	25.349.3853.0	91
25.323.0353.0	89	25.325.1053.0	90	25.332.4053.0	67	25.342.1253.0	98	25.345.0353.0	90	25.349.3953.0	91
25.323.0453.0	89	25.325.1153.0	90	25.332.4153.0	67	25.342.1353.0	98	25.345.0453.0	90	25.349.4053.0	91
25.323.0553.0	89	25.325.1253.0	90	25.332.4253.0	67	25.342.1453.0	98	25.345.0553.0	90	25.349.4153.0	91
25.323.0653.0	89	25.325.1353.0	90	25.332.4353.0	67	25.342.1553.0	98	25.345.0653.0	90	25.349.4253.0	91
25.323.0753.0	89	25.325.1453.0	90	25.332.4453.0	67	25.342.1653.0	98	25.345.0753.0	90	25.349.4353.0	91
25.323.0853.0	89	25.325.1553.0	90	25.332.4553.0	67	25.342.3253.0	98	25.345.0853.0	90	25.349.4453.0	91
25.323.0953.0	89	25.325.1653.0	90	25.332.4653.0	67	25.342.3353.0	98	25.345.0953.0	90	25.349.4553.0	91
25.323.1053.0	89	25.325.3253.0	90	25.334.3253.0	74	25.342.3453.0	98	25.345.1053.0	90	25.349.4653.0	91
25.323.1153.0	89	25.325.3353.0	90	25.334.3353.0	74	25.342.3553.0	98	25.345.1153.0	90	25.350.3206.0	70
25.323.1253.0	89	25.325.3453.0	90	25.336.3253.0	74	25.342.3653.0	98	25.345.1253.0	90	25.350.3216.0	70
25.323.1353.0	89	25.325.3553.0	90	25.336.3353.0	74	25.342.3753.0	98	25.345.1353.0	90	25.350.3253.0	66
25.323.1453.0	89	25.325.3653.0	90	25.338.3253.0	69	25.342.3853.0	98	25.345.1453.0	90	25.350.3306.0	70
25.323.1553.0	89	25.325.3753.0	90	25.338.3353.0	69	25.342.3953.0	98	25.345.1553.0	90	25.350.3316.0	70
25.323.1653.0	89	25.325.3853.0	90	25.338.3453.0	69	25.342.4053.0	98	25.345.1653.0	90	25.350.3353.0	66
25.323.3253.0	89	25.325.3953.0	90	25.338.3553.0	69	25.342.4153.0	98	25.345.3253.0	90	25.350.3406.0	70
25.323.3353.0	89	25.325.4053.0	90	25.338.3653.0	69	25.342.4253.0	98	25.345.3353.0	90	25.350.3416.0	70
25.323.3453.0	89	25.325.4153.0	90	25.338.3753.0	69	25.342.4353.0	98	25.345.3453.0	90	25.350.3453.0	66
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25.323.3653.0	89	25.325.4353.0	90	25.338.3953.0	69	25.342.4553.0	98	25.345.3653.0	90	25.350.3516.0	70
25.323.3753.0	89	25.325.4453.0	90	25.338.4053.0	69	25.342.4653.0	98	25.345.3753.0	90	25.350.3553.0	66
25.323.3853.0	89	25.325.4553.0	90	25.338.4153.0	69	25.343.0253.0	98	25.345.3853.0	90	25.350.3606.0	70
25.323.3953.0	89	25.325.4653.0	90	25.338.4253.0	69	25.343.0353.0	98	25.345.3953.0	90	25.350.3616.0	70
25.323.4053.0	89	25.326.0253.0	91	25.338.4353.0	69	25.343.0453.0	98	25.345.4053.0	90	25.350.3653.0	66
25.323.4153.0	89	25.326.0353.0	91	25.338.4453.0	69	25.343.0553.0	98	25.345.4153.0	90	25.350.3706.0	70
25.323.4253.0	89	25.326.0453.0	91	25.338.4553.0	69	25.343.0653.0	98	25.345.4253.0	90	25.350.3716.0	70
25.323.4353.0</											

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25.350.3806.0	70	25.358.3353.0	68	25.359.4553.0	69	25.380.3253.0	100	25.394.3653.0	73	25.500.0553.0	16
25.350.3816.0	70	25.358.3406.0	72	25.359.4606.0	72	25.380.3353.0	100	25.394.3753.0	73	25.500.0653.0	16
25.350.3853.0	66	25.358.3416.0	72	25.359.4616.0	72	25.380.3453.0	100	25.394.3853.0	73	25.500.0753.0	16
25.350.3906.0	70	25.358.3453.0	68	25.359.4653.0	69	25.380.3553.0	100	25.394.3953.0	73	25.500.0853.0	16
25.350.3916.0	70	25.358.3506.0	72	25.360.0253.0	100	25.380.3653.0	100	25.394.4053.0	73	25.500.0953.0	16
25.350.3953.0	66	25.358.3516.0	72	25.360.0353.0	100	25.380.3753.0	100	25.394.4153.0	73	25.500.1053.0	16
25.350.4006.0	70	25.358.3553.0	68	25.360.0453.0	100	25.380.3853.0	100	25.394.4253.0	73	25.500.1153.0	16
25.350.4016.0	70	25.358.3606.0	72	25.360.0553.0	100	25.380.3953.0	100	25.394.4353.0	73	25.500.1253.0	16
25.350.4053.0	66	25.358.3616.0	72	25.360.0653.0	100	25.380.4053.0	100	25.394.4453.0	73	25.500.1353.0	16
25.350.4106.0	70	25.358.3653.0	68	25.360.0753.0	100	25.380.4153.0	100	25.394.4553.0	73	25.500.1453.0	16
25.350.4116.0	70	25.358.3706.0	72	25.360.0853.0	100	25.380.4253.0	100	25.394.4653.0	73	25.500.1553.0	16
25.350.4153.0	66	25.358.3716.0	72	25.360.0953.0	100	25.385.0253.0	101	25.395.3253.0	73	25.500.1653.0	16
25.350.4206.0	70	25.358.3753.0	68	25.360.1053.0	100	25.385.0353.0	101	25.395.3353.0	73	25.500.6253.0	16
25.350.4216.0	70	25.358.3806.0	72	25.360.1153.0	100	25.385.0453.0	101	25.395.3453.0	73	25.500.6353.0	16
25.350.4253.0	66	25.358.3816.0	72	25.360.1253.0	100	25.385.0553.0	101	25.395.3553.0	73	25.501.0253.0	16
25.350.4306.0	70	25.358.3853.0	68	25.360.3253.0	100	25.385.0653.0	101	25.395.3653.0	73	25.501.0353.0	16
25.350.4316.0	70	25.358.3906.0	72	25.360.3353.0	100	25.385.0753.0	101	25.395.3753.0	73	25.501.0453.0	16
25.350.4353.0	66	25.358.3916.0	72	25.360.3453.0	100	25.385.0853.0	101	25.395.3853.0	73	25.501.0553.0	16
25.350.4406.0	70	25.358.3953.0	68	25.360.3553.0	100	25.385.0953.0	101	25.395.3953.0	73	25.501.0653.0	16
25.350.4416.0	70	25.358.4006.0	72	25.360.3653.0	100	25.385.1053.0	101	25.395.4053.0	73	25.501.0753.0	16
25.350.4453.0	66	25.358.4016.0	72	25.360.3753.0	100	25.385.1153.0	101	25.395.4153.0	73	25.501.0853.0	16
25.350.4506.0	70	25.358.4053.0	68	25.360.3853.0	100	25.385.1253.0	101	25.395.4253.0	73	25.501.0953.0	16
25.350.4516.0	70	25.358.4106.0	72	25.360.3953.0	100	25.385.2253.0	101	25.395.4353.0	73	25.501.1053.0	16
25.350.4553.0	66	25.358.4116.0	72	25.360.4053.0	100	25.385.2353.0	101	25.395.4453.0	73	25.501.1153.0	16
25.350.4606.0	70	25.358.4153.0	68	25.360.4153.0	100	25.385.2453.0	101	25.395.4553.0	73	25.501.1253.0	16
25.350.4616.0	70	25.358.4206.0	72	25.360.4253.0	100	25.385.2553.0	101	25.395.4653.0	73	25.501.1353.0	16
25.350.4653.0	66	25.358.4216.0	72	25.370.3253.0	76	25.385.2653.0	101	25.396.3253.0	73	25.501.1453.0	16
25.352.3206.0	70	25.358.4253.0	68	25.370.3353.0	76	25.385.2753.0	101	25.396.3353.0	73	25.501.1553.0	16
25.352.3216.0	70	25.358.4306.0	72	25.370.3453.0	76	25.385.2853.0	101	25.396.3453.0	73	25.501.1653.0	16
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25.352.3306.0	70	25.358.4353.0	68	25.370.3653.0	76	25.385.3053.0	101	25.396.3653.0	73	25.501.6353.0	16
25.352.3316.0	70	25.358.4406.0	72	25.370.3753.0	76	25.385.3153.0	101	25.396.3753.0	73	25.502.0253.0	16
25.352.3353.0	67	25.358.4416.0	72	25.370.3853.0	76	25.385.3253.0	101	25.396.3853.0	73	25.502.0353.0	16
25.352.3406.0	70	25.358.4453.0	68	25.370.3953.0	76	25.386.0253.0	101	25.396.3953.0	73	25.502.0453.0	16
25.352.3416.0	70	25.358.4506.0	72	25.370.4053.0	76	25.386.0353.0	101	25.396.4053.0	73	25.502.0553.0	16
25.352.3453.0	67	25.358.4516.0	72	25.370.4153.0	76	25.386.0453.0	101	25.396.4153.0	73	25.502.0653.0	16
25.352.3506.0	70	25.358.4553.0	68	25.370.4253.0	76	25.386.0553.0	101	25.396.4253.0	73	25.502.0753.0	16
25.352.3516.0	70	25.358.4606.0	72	25.372.3253.0	77	25.386.0653.0	101	25.396.4353.0	73	25.502.0853.0	16
25.352.3553.0	67	25.358.4616.0	72	25.372.3353.0	77	25.386.0753.0	101	25.396.4453.0	73	25.502.0953.0	16
25.352.3606.0	70	25.358.4653.0	68	25.372.3453.0	77	25.386.0853.0	101	25.396.4553.0	73	25.502.1053.0	16
25.352.3616.0	70	25.359.3206.0	72	25.372.3553.0	77	25.386.0953.0	101	25.396.4653.0	73	25.502.1153.0	16
25.352.3653.0	67	25.359.3216.0	72	25.372.3653.0	77	25.386.1053.0	101	25.397.3253.0	73	25.502.1253.0	16
25.352.3706.0	70	25.359.3253.0	69	25.372.3753.0	77	25.386.1153.0	101	25.397.3353.0	73	25.502.1353.0	16
25.352.3716.0	70	25.359.3306.0	72	25.372.3853.0	77	25.386.1253.0	101	25.397.3453.0	73	25.502.1453.0	16
25.352.3753.0	67	25.359.3316.0	72	25.372.3953.0	77	25.386.2253.0	101	25.397.3553.0	73	25.502.1553.0	16
25.352.3806.0	70	25.359.3353.0	69	25.372.4053.0	77	25.386.2353.0	101	25.397.3653.0	73	25.502.1653.0	16
25.352.3816.0	70	25.359.3406.0	72	25.372.4153.0	77	25.386.2453.0	101	25.397.3753.0	73	25.502.6253.0	16
25.352.3853.0	67	25.359.3416.0	72	25.372.4253.0	77	25.386.2553.0	101	25.397.3853.0	73	25.502.6353.0	16
25.352.3906.0	70	25.359.3453.0	69	25.374.2253.0	79	25.386.2653.0	101	25.397.3953.0	73	25.503.0253.0	16
25.352.3916.0	70	25.359.3506.0	72	25.374.2353.0	79	25.386.2753.0	101	25.397.4053.0	73	25.503.0353.0	16
25.352.3953.0	67	25.359.3516.0	72	25.374.2453.0	79	25.386.2853.0	101	25.397.4153.0	73	25.503.0453.0	16
25.352.4006.0	70	25.359.3553.0	69	25.374.2553.0	79	25.386.2953.0	101	25.397.4253.0	73	25.503.0553.0	16
25.352.4016.0	70	25.359.3606.0	72	25.374.2653.0	79	25.386.3053.0	101	25.397.4353.0	73	25.503.0653.0	16
25.352.4053.0	67	25.359.3616.0	72	25.374.2753.0	79	25.386.3153.0	101	25.397.4453.0	73	25.503.0753.0	16
25.352.4106.0	70	25.359.3653.0	69	25.374.2853.0	79	25.386.3253.0	101	25.397.4553.0	73	25.503.0853.0	16
25.352.4116.0	70	25.359.3706.0	72	25.374.2953.0	79	25.390.3253.0	76	25.397.4653.0	73	25.503.0953.0	16
25.352.4153.0	67	25.359.3716.0	72	25.374.3053.0	79	25.390.3353.0	76	25.398.2253.0	79	25.503.1053.0	16
25.352.4206.0	70	25.359.3753.0	69	25.374.3153.0	79	25.390.3453.0	76	25.398.2353.0	79	25.503.1153.0	16
25.352.4216.0	70	25.359.3806.0	72	25.374.3253.0	79	25.390.3553.0	76	25.398.2453.0	79	25.503.1253.0	16
25.352.4253.0	67	25.359.3816.0	72	25.374.6253.0	78	25.390.3653.0	76	25.398.2553.0	79	25.503.1353.0	16
25.352.4306.0	70	25.359.3853.0	69	25.374.6353.0	78	25.390.3753.0	76	25.398.2653.0	79	25.503.1453.0	16
25.352.4316.0	70	25.359.3906.0	72	25.374.6453.0	78	25.390.3853.0	76	25.398.2753.0	79	25.503.1553.0	16
25.352.4353.0	67	25.359.3916.0	72	25.374.6553.0	78	25.390.3953.0	76	25.398.2853.0	79	25.503.1653.0	16
25.352.4406.0	70	25.359.3953.0	69	25.374.6653.0	78	25.390.4053.0	76	25.398.2953.0	79	25.503.6253.0	16
25.352.4416.0	70	25.359.4006.0	72	25.374.6753.0	78	25.390.4153.0	76	25.398.3053.0	79	25.503.6353.0	16
25.352.4453.0	67	25.359.4016.0	72	25.374.6853.0	78	25.390.4253.0	76	25.398.3153.0	79	25.520.0253.0	17
25.352.4506.0	70	25.359.4053.0	69	25.374.6953.0	78	25.392.3253.0	77	25.398.3253.0	79	25.520.0353.0	17
25.352.4516.0	70	25.359.4106.0	72	25.374.7053.0	78	25.392.3353.0	77	25.398.6253.0	78	25.520.0453.0	17
25.352.4553.0	67	25.359.4116.0	72	25.374.7153.0	78	25.392.3453.0	77	25.398.6353.0	78	25.520.0553.0	17
25.352.4606.0	70	25.359.4153.0	69	25.374.7253.0	78	25.392.3553.0	77	25.398.6453.0	78	25.520.0653.0	17
25.352.4616.0	70	25.359.4206.0	72	25.380.0253.0	100	25.392.3653.0	77	25.398.6553.0	78	25.520.0753.0	17
25.352.4653.0	67	25.359.4216.0	72	25.380.0353.0	100	25.392.3753.0	77	25.398.6653.0	78	25.520.0853.0	17
25.354.3253.0	74	25.359.4253.0	69	25.380.0453.0	100	25.392.3853.0	77	25.398.6753.0	78	25.520.0953.0	17
25.354.3353.0	74	25.359.4306.0	72	25.380.0553.0	100	25.392.3953.0	77	25.398.6853.0	78	25.520.1053.0	17
25.356.3253.0	74	25.359.4316.0	72	25.380.0653.0	100	25.392.4053.0	77	25.398.6953.0	78	25.520.1153.0	17
25.356.3353.0	74	25.359.4353.0	69	25.380.0753.0	100	25.392.4153.0	77	25.398.7053.0	78	25.520.1253.0	17
25.358.3206.0	72	25.359.4406.0	72	25.380.0853.0	100	25.392.4253.0	77	25.398.7153.0	78	25.520.1353.0	17
25.358.3216.0	72	25.359.4416.0	72	25.380.0953.0	100	25.394.3253.0	73	25.398.7253.0	78	25.520.1453.0	17
25.358.3253.0	68	25.359.4453.0	69	25.380.1053.0	100	25.394.3353.0	73	25.500.0253.0	16	25.520.1553.0	17
25.358.3306.0	72	25.359.4506.0	72	25.380.1153.0	100	25.394.3453.0	73	25.500.0353.0	16		

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25.520.6353.0	17	25.600.6653.0	49	25.620.0853.0	80	25.622.4453.0	86	25.625.3653.0	87	25.630.1253.0	81
25.521.0253.0	17	25.601.1253.0	57	25.620.0953.0	80	25.622.4553.0	86	25.625.3753.0	87	25.630.1353.0	81
25.521.0353.0	17	25.601.1353.0	57	25.620.1053.0	80	25.622.4653.0	86	25.625.3853.0	87	25.630.1453.0	81
25.521.0453.0	17	25.601.1453.0	57	25.620.1153.0	80	25.623.0253.0	87	25.625.3953.0	87	25.630.1553.0	81
25.521.0553.0	17	25.601.1553.0	57	25.620.1253.0	80	25.623.0353.0	87	25.625.4053.0	87	25.630.1653.0	81
25.521.0653.0	17	25.601.1653.0	57	25.620.1353.0	80	25.623.0453.0	87	25.625.4153.0	87	25.630.3253.0	81
25.521.0753.0	17	25.601.1753.0	57	25.620.1453.0	80	25.623.0553.0	87	25.625.4253.0	87	25.630.3353.0	81
25.521.0853.0	17	25.601.1853.0	57	25.620.1553.0	80	25.623.0653.0	87	25.625.4353.0	87	25.630.3453.0	81
25.521.0953.0	17	25.602.2253.0	50	25.620.1653.0	80	25.623.0753.0	87	25.625.4453.0	87	25.630.3553.0	81
25.521.1053.0	17	25.602.2353.0	50	25.620.3253.0	80	25.623.0853.0	87	25.625.4553.0	87	25.630.3653.0	81
25.521.1153.0	17	25.602.2453.0	50	25.620.3353.0	80	25.623.0953.0	87	25.625.4653.0	87	25.630.3753.0	81
25.521.1253.0	17	25.602.2553.0	50	25.620.3453.0	80	25.623.1053.0	87	25.626.0253.0	60	25.630.3853.0	81
25.521.1353.0	17	25.602.2653.0	50	25.620.3553.0	80	25.623.1153.0	87	25.626.0353.0	60	25.630.3953.0	81
25.521.1453.0	17	25.602.2753.0	50	25.620.3653.0	80	25.623.1253.0	87	25.626.0453.0	60	25.630.4053.0	81
25.521.1553.0	17	25.602.2853.0	50	25.620.3753.0	80	25.623.1353.0	87	25.626.0553.0	60	25.630.4153.0	81
25.521.1653.0	17	25.602.2953.0	50	25.620.3853.0	80	25.623.1453.0	87	25.626.0653.0	60	25.630.4253.0	81
25.521.6253.0	17	25.602.3053.0	50	25.620.3953.0	80	25.623.1553.0	87	25.626.0753.0	60	25.630.4353.0	81
25.521.6353.0	17	25.602.3153.0	50	25.620.4053.0	80	25.623.3253.0	87	25.626.0853.0	60	25.630.4453.0	81
25.522.0253.0	17	25.602.3253.0	50	25.620.4153.0	80	25.623.3353.0	87	25.626.0953.0	60	25.630.4553.0	81
25.522.0353.0	17	25.602.3353.0	50	25.620.4253.0	80	25.623.3453.0	87	25.626.1053.0	60	25.630.4653.0	81
25.522.0453.0	17	25.602.3453.0	50	25.620.4353.0	80	25.623.3553.0	87	25.626.1153.0	60	25.631.3253.0	82
25.522.0553.0	17	25.602.3553.0	50	25.620.4453.0	80	25.623.3653.0	87	25.626.1253.0	60	25.631.3353.0	82
25.522.0653.0	17	25.602.3653.0	50	25.620.4553.0	80	25.623.3753.0	87	25.626.1353.0	60	25.631.3453.0	82
25.522.0753.0	17	25.602.5253.0	49	25.620.4653.0	80	25.623.3853.0	87	25.626.1453.0	60	25.631.3553.0	82
25.522.0853.0	17	25.602.5353.0	49	25.621.0253.0	80	25.623.3953.0	87	25.626.1553.0	60	25.631.3653.0	82
25.522.0953.0	17	25.602.5453.0	49	25.621.0353.0	80	25.623.4053.0	87	25.626.1653.0	60	25.631.3753.0	82
25.522.1053.0	17	25.602.5553.0	49	25.621.0453.0	80	25.623.4153.0	87	25.626.3253.0	62	25.631.3853.0	82
25.522.1153.0	17	25.602.5653.0	49	25.621.0553.0	80	25.623.4253.0	87	25.626.3353.0	62	25.631.3953.0	82
25.522.1253.0	17	25.602.5753.0	49	25.621.0653.0	80	25.623.4353.0	87	25.626.3453.0	62	25.631.4053.0	82
25.522.1353.0	17	25.602.5853.0	49	25.621.0753.0	80	25.623.4453.0	87	25.626.3553.0	62	25.631.4153.0	82
25.522.1453.0	17	25.602.5953.0	49	25.621.0853.0	80	25.623.4553.0	87	25.626.3653.0	62	25.631.4253.0	82
25.522.1553.0	17	25.602.6053.0	49	25.621.0953.0	80	25.623.4653.0	87	25.626.3753.0	62	25.631.4353.0	82
25.522.1653.0	17	25.602.6153.0	49	25.621.1053.0	80	25.624.0253.0	86	25.626.3853.0	62	25.631.4453.0	82
25.522.6253.0	17	25.602.6253.0	49	25.621.1153.0	80	25.624.0353.0	86	25.626.3953.0	62	25.631.4553.0	82
25.522.6353.0	17	25.602.6353.0	49	25.621.1253.0	80	25.624.0453.0	86	25.626.4053.0	62	25.631.4653.0	82
25.523.0253.0	17	25.602.6453.0	49	25.621.1353.0	80	25.624.0553.0	86	25.626.4153.0	62	25.640.0253.0	80
25.523.0353.0	17	25.602.6553.0	49	25.621.1453.0	80	25.624.0653.0	86	25.626.4253.0	62	25.640.0353.0	80
25.523.0453.0	17	25.602.6653.0	49	25.621.1553.0	80	25.624.0753.0	86	25.626.4353.0	62	25.640.0453.0	80
25.523.0553.0	17	25.603.1253.0	57	25.621.1653.0	80	25.624.0853.0	86	25.626.4453.0	62	25.640.0553.0	80
25.523.0653.0	17	25.603.1353.0	57	25.621.3253.0	80	25.624.0953.0	86	25.626.4553.0	62	25.640.0653.0	80
25.523.0753.0	17	25.603.1453.0	57	25.621.3353.0	80	25.624.1053.0	86	25.626.4653.0	62	25.640.0753.0	80
25.523.0853.0	17	25.603.1553.0	57	25.621.3453.0	80	25.624.1153.0	86	25.627.0253.0	60	25.640.0853.0	80
25.523.0953.0	17	25.603.1653.0	57	25.621.3553.0	80	25.624.1253.0	86	25.627.0353.0	60	25.640.0953.0	80
25.523.1053.0	17	25.603.1753.0	57	25.621.3653.0	80	25.624.1353.0	86	25.627.0453.0	60	25.640.1053.0	80
25.523.1153.0	17	25.603.1853.0	57	25.621.3753.0	80	25.624.1453.0	86	25.627.0553.0	60	25.640.1153.0	80
25.523.1253.0	17	25.615.0253.3	51	25.621.3853.0	80	25.624.1553.0	86	25.627.0653.0	60	25.640.1253.0	80
25.523.1353.0	17	25.615.0353.3	51	25.621.3953.0	80	25.624.1653.0	86	25.627.0753.0	60	25.640.1353.0	80
25.523.1453.0	17	25.615.0453.3	51	25.621.4053.0	80	25.624.3253.0	86	25.627.0853.0	60	25.640.1453.0	80
25.523.1553.0	17	25.615.0553.3	51	25.621.4153.0	80	25.624.3353.0	86	25.627.0953.0	60	25.640.1553.0	80
25.523.1653.0	17	25.615.0653.3	51	25.621.4253.0	80	25.624.3453.0	86	25.627.1053.0	60	25.640.1653.0	80
25.523.6253.0	17	25.615.0753.3	51	25.621.4353.0	80	25.624.3553.0	86	25.627.1153.0	60	25.640.1653.0	87
25.523.6353.0	17	25.615.0853.3	51	25.621.4453.0	80	25.624.3653.0	86	25.627.1253.0	60	25.640.3253.0	80
25.600.2253.0	50	25.615.0953.3	51	25.621.4553.0	80	25.624.3753.0	86	25.627.1353.0	60	25.640.3353.0	80
25.600.2353.0	50	25.615.1053.3	51	25.621.4653.0	80	25.624.3853.0	86	25.627.1453.0	60	25.640.3453.0	80
25.600.2453.0	50	25.615.1153.3	51	25.622.0253.0	86	25.624.3953.0	86	25.627.1553.0	60	25.640.3553.0	80
25.600.2553.0	50	25.615.1253.3	51	25.622.0353.0	86	25.624.4053.0	86	25.627.1653.0	60	25.640.3653.0	80
25.600.2653.0	50	25.615.1353.3	51	25.622.0453.0	86	25.624.4153.0	86	25.627.3253.0	62	25.640.3753.0	80
25.600.2753.0	50	25.615.1453.3	51	25.622.0553.0	86	25.624.4253.0	86	25.627.3353.0	62	25.640.3853.0	80
25.600.2853.0	50	25.615.1553.3	51	25.622.0653.0	86	25.624.4353.0	86	25.627.3453.0	62	25.640.3953.0	80
25.600.2953.0	50	25.615.1653.3	51	25.622.0753.0	86	25.624.4453.0	86	25.627.3553.0	62	25.640.4053.0	80
25.600.3053.0	50	25.616.0253.3	51	25.622.0853.0	86	25.624.4553.0	86	25.627.3653.0	62	25.640.4153.0	80
25.600.3153.0	50	25.616.0353.3	51	25.622.0953.0	86	25.624.4653.0	86	25.627.3753.0	62	25.640.4253.0	80
25.600.3253.0	50	25.616.0453.3	51	25.622.1053.0	86	25.625.0253.0	87	25.627.3853.0	62	25.640.4353.0	80
25.600.3353.0	50	25.616.0553.3	51	25.622.1153.0	86	25.625.0353.0	87	25.627.3953.0	62	25.640.4453.0	80
25.600.3453.0	50	25.616.0653.3	51	25.622.1253.0	86	25.625.0453.0	87	25.627.4053.0	62	25.640.4553.0	80
25.600.3553.0	50	25.616.0753.3	51	25.622.1353.0	86	25.625.0553.0	87	25.627.4153.0	62	25.640.4653.0	80
25.600.3653.0	50	25.616.0853.3	51	25.622.1453.0	86	25.625.0653.0	87	25.627.4253.0	62	25.641.0253.0	80
25.600.5253.0	49	25.616.0953.3	51	25.622.1553.0	86	25.625.0753.0	87	25.627.4353.0	62	25.641.0353.0	80
25.600.5353.0	49	25.616.1053.3	51	25.622.1653.0	86	25.625.0853.0	87	25.627.4453.0	62	25.641.0453.0	80
25.600.5453.0	49	25.616.1153.3	51	25.622.3253.0	86	25.625.0953.0	87	25.627.4553.0	62	25.641.0553.0	80
25.600.5553.0	49	25.616.1253.3	51	25.622.3353.0	86	25.625.1053.0	87	25.627.4653.0	62	25.641.0653.0	80
25.600.5653.0	49	25.616.1353.3	51	25.622.3453.0	86	25.625.1153.0	87	25.630.0253.0	81	25.641.0753.0	80
25.600.5753.0	49	25.616.1453.3	51	25.622.3553.0	86	25.625.1253.0	87	25.630.0353.0	81	25.641.0853.0	80
25.600.5853.0	49	25.616.1553.3	51	25.622.3653.0	86	25.625.1353.0	87	25.630.0453.0	81	25.641.0953.0	80
25.600.5953.0	49	25.616.1653.3	51	25.622.3753.0	86	25.625.1453.0	87	25.630.0553.0	81	25.641.1053.0	80
25.600.6053.0	49	25.620.0253.0	80	25.622.3853.0	86	25.625.1553.0	87	25.630.0653.0	81	25.641.1153.0	80
25.600.6153.0	49	25.620.0353.0	80	25.622.3953.0	86	25.625.1653.0	87	25.630.0753.0	81	25.641.1253.0	80
25.600.6253.0	49	25.620.0453.0	80	25.622.4053.0	86	25.625.3253.0	87	25.630.0853.0	81	25.641.1353.0	80
25.600.6353.0	49	25.620.0553.0	80	25.622.4153.0	86	25.625.3353.0	87	25.630.0953.0	81	25.641.1453.0	80
25.600.6453.0	49	25.620.0653.0	80	25.622.4253.0	86	25.625.3453.0	87	25.630.1053.0	81	25.641.1553.0	80
25.600.6553.0	49	25.620.0753.0	80	25.622.4							

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25.641.3253.0	80	25.646.1406.0	61	25.647.4453.0	62	25.666.0508.0	65	25.741.3453.0	21	25.780.0653.0	15
25.641.3353.0	80	25.646.1416.0	61	25.647.4553.0	62	25.666.0608.0	65	25.741.3553.0	21	25.780.0753.0	15
25.641.3453.0	80	25.646.1453.0	60	25.647.4653.0	62	25.666.0708.0	65	25.741.3653.0	21	25.780.0853.0	15
25.641.3553.0	80	25.646.1506.0	61	25.648.3253.0	84	25.666.0808.0	65	25.741.3753.0	21	25.780.0953.0	15
25.641.3653.0	80	25.646.1516.0	61	25.648.3353.0	84	25.666.0908.0	65	25.741.3853.0	21	25.780.1053.0	15
25.641.3753.0	80	25.646.1553.0	60	25.648.3453.0	84	25.666.1008.0	65	25.741.3953.0	21	25.780.1153.0	15
25.641.3853.0	80	25.646.1606.0	61	25.648.3553.0	84	25.666.1108.0	65	25.741.4053.0	21	25.780.1253.0	15
25.641.3953.0	80	25.646.1616.0	61	25.648.3653.0	84	25.666.1208.0	65	25.741.4153.0	21	25.780.1353.0	15
25.641.4053.0	80	25.646.1653.0	60	25.648.3753.0	84	25.666.1308.0	65	25.741.4253.0	21	25.780.1453.0	15
25.641.4153.0	80	25.646.3253.0	62	25.648.3853.0	84	25.666.1408.0	65	25.741.4353.0	21	25.780.1553.0	15
25.641.4253.0	80	25.646.3353.0	62	25.648.3953.0	84	25.666.1508.0	65	25.741.4453.0	21	25.780.1653.0	15
25.641.4353.0	80	25.646.3453.0	62	25.648.4053.0	84	25.666.1608.0	65	25.741.4553.0	21	25.781.0253.0	15
25.641.4453.0	80	25.646.3553.0	62	25.648.4153.0	84	25.666.6208.0	65	25.741.4653.0	21	25.781.0353.0	15
25.641.4553.0	80	25.646.3653.0	62	25.648.4253.0	84	25.666.6308.0	65	25.751.0053.0	20	25.781.0453.0	15
25.641.4653.0	80	25.646.3753.0	62	25.648.4353.0	84	25.666.6408.0	65	25.751.0153.0	21	25.781.0553.0	15
25.642.0253.0	81	25.646.3853.0	62	25.648.4453.0	84	25.666.6508.0	65	25.751.0253.0	20	25.781.0653.0	15
25.642.0353.0	81	25.646.3953.0	62	25.648.4553.0	84	25.666.6608.0	65	25.751.0353.0	20	25.781.0753.0	15
25.642.0453.0	81	25.646.4053.0	62	25.648.4653.0	84	25.666.6708.0	65	25.751.0453.0	20	25.781.0853.0	15
25.642.0553.0	81	25.646.4153.0	62	25.656.0208.0	64	25.666.6808.0	65	25.751.0553.0	20	25.781.0953.0	15
25.642.0653.0	81	25.646.4253.0	62	25.656.0308.0	64	25.666.6908.0	65	25.751.0653.0	20	25.781.1053.0	15
25.642.0753.0	81	25.646.4353.0	62	25.656.0408.0	64	25.666.7008.0	65	25.751.0753.0	20	25.781.1153.0	15
25.642.0853.0	81	25.646.4453.0	62	25.656.0508.0	64	25.666.7108.0	65	25.751.0853.0	20	25.781.1253.0	15
25.642.0953.0	81	25.646.4553.0	62	25.656.0608.0	64	25.666.7208.0	65	25.751.0953.0	20	25.781.1353.0	15
25.642.1053.0	81	25.646.4653.0	62	25.656.0708.0	64	25.666.7308.0	65	25.751.1053.0	20	25.781.1453.0	15
25.642.1153.0	81	25.647.0206.0	61	25.656.0808.0	64	25.666.7408.0	65	25.751.1153.0	20	25.781.1553.0	15
25.642.1253.0	81	25.647.0216.0	61	25.656.0908.0	64	25.666.7508.0	65	25.751.1253.0	20	25.781.1653.0	15
25.642.1353.0	81	25.647.0253.0	60	25.656.1008.0	64	25.666.7608.0	65	25.751.1353.0	20	25.782.0253.0	39
25.642.1453.0	81	25.647.0306.0	61	25.656.1108.0	64	25.667.0208.0	65	25.751.1453.0	20	25.782.0353.0	39
25.642.1553.0	81	25.647.0316.0	61	25.656.1208.0	64	25.667.0308.0	65	25.751.1553.0	20	25.782.0453.0	39
25.642.1653.0	81	25.647.0353.0	60	25.656.1308.0	64	25.667.0408.0	65	25.751.1653.0	20	25.782.0553.0	39
25.642.3253.0	81	25.647.0406.0	61	25.656.1408.0	64	25.667.0508.0	65	25.751.3253.0	21	25.782.0653.0	39
25.642.3353.0	81	25.647.0416.0	61	25.656.1508.0	64	25.667.0608.0	65	25.751.3353.0	21	25.782.0753.0	39
25.642.3453.0	81	25.647.0453.0	60	25.656.1608.0	64	25.667.0708.0	65	25.751.3453.0	21	25.782.0853.0	39
25.642.3553.0	81	25.647.0506.0	61	25.656.6208.0	64	25.667.0808.0	65	25.751.3553.0	21	25.782.0953.0	39
25.642.3653.0	81	25.647.0516.0	61	25.656.6308.0	64	25.667.0908.0	65	25.751.3653.0	21	25.782.1053.0	39
25.642.3753.0	81	25.647.0553.0	60	25.656.6408.0	64	25.667.1008.0	65	25.751.3753.0	21	25.782.1153.0	39
25.642.3853.0	81	25.647.0606.0	61	25.656.6508.0	64	25.667.1108.0	65	25.751.3853.0	21	25.782.1253.0	39
25.642.3953.0	81	25.647.0616.0	61	25.656.6608.0	64	25.667.1208.0	65	25.751.3953.0	21	25.782.1353.0	39
25.642.4053.0	81	25.647.0653.0	60	25.656.6708.0	64	25.667.1308.0	65	25.751.4053.0	21	25.782.1453.0	39
25.642.4153.0	81	25.647.0706.0	61	25.656.6808.0	64	25.667.1408.0	65	25.751.4153.0	21	25.782.1553.0	39
25.642.4253.0	81	25.647.0716.0	61	25.656.6908.0	64	25.667.1508.0	65	25.751.4253.0	21	25.782.1653.0	39
25.642.4353.0	81	25.647.0753.0	60	25.656.7008.0	64	25.667.1608.0	65	25.751.4353.0	21	25.783.0253.0	39
25.642.4453.0	81	25.647.0806.0	61	25.656.7108.0	64	25.667.6208.0	65	25.751.4453.0	21	25.783.0353.0	39
25.642.4553.0	81	25.647.0816.0	61	25.656.7208.0	64	25.667.6308.0	65	25.751.4553.0	21	25.783.0453.0	39
25.642.4653.0	81	25.647.0853.0	60	25.656.7308.0	64	25.667.6408.0	65	25.751.4653.0	21	25.783.0553.0	39
25.646.0206.0	61	25.647.0906.0	61	25.656.7408.0	64	25.667.6508.0	65	25.761.0053.0	36	25.783.0653.0	39
25.646.0216.0	61	25.647.0916.0	61	25.656.7508.0	64	25.667.6608.0	65	25.761.0153.0	37	25.783.0753.0	39
25.646.0253.0	60	25.647.0953.0	60	25.656.7608.0	64	25.667.6708.0	65	25.761.0253.0	36	25.783.0853.0	39
25.646.0306.0	61	25.647.1006.0	61	25.657.0208.0	64	25.667.6808.0	65	25.761.0353.0	36	25.783.0953.0	39
25.646.0316.0	61	25.647.1016.0	61	25.657.0308.0	64	25.667.6908.0	65	25.761.0453.0	36	25.783.1053.0	39
25.646.0353.0	60	25.647.1053.0	60	25.657.0408.0	64	25.667.7008.0	65	25.761.0553.0	36	25.783.1153.0	39
25.646.0406.0	61	25.647.1106.0	61	25.657.0508.0	64	25.667.7108.0	65	25.761.0653.0	36	25.783.1253.0	39
25.646.0416.0	61	25.647.1116.0	61	25.657.0608.0	64	25.667.7208.0	65	25.761.0753.0	36	25.783.1353.0	39
25.646.0453.0	60	25.647.1153.0	60	25.657.0708.0	64	25.667.7308.0	65	25.761.0853.0	36	25.783.1453.0	39
25.646.0506.0	61	25.647.1206.0	61	25.657.0808.0	64	25.667.7408.0	65	25.761.3253.0	37	25.783.1553.0	39
25.646.0516.0	61	25.647.1216.0	61	25.657.0908.0	64	25.667.7508.0	65	25.761.3353.0	37	25.783.1653.0	39
25.646.0553.0	60	25.647.1253.0	60	25.657.1008.0	64	25.667.7608.0	65	25.761.3453.0	37	25.790.0253.0	15
25.646.0606.0	61	25.647.1306.0	61	25.657.1108.0	64	25.700.0153.0	40	25.761.3553.0	37	25.790.0353.0	15
25.646.0616.0	61	25.647.1316.0	61	25.657.1208.0	64	25.700.0253.0	40	25.761.3653.0	37	25.790.0453.0	15
25.646.0653.0	60	25.647.1353.0	60	25.657.1308.0	64	25.720.1353.0	109	25.761.3753.0	37	25.790.0553.0	15
25.646.0706.0	61	25.647.1406.0	61	25.657.1408.0	64	25.720.1453.0	110	25.761.3853.0	37	25.790.0653.0	15
25.646.0716.0	61	25.647.1416.0	61	25.657.1508.0	64	25.720.1653.0	111	25.771.0053.0	36	25.790.0753.0	15
25.646.0753.0	60	25.647.1453.0	60	25.657.1608.0	64	25.741.0053.0	20	25.771.0153.0	37	25.790.0853.0	15
25.646.0806.0	61	25.647.1506.0	61	25.657.6208.0	64	25.741.0153.0	21	25.771.0253.0	36	25.790.0953.0	15
25.646.0816.0	61	25.647.1516.0	61	25.657.6308.0	64	25.741.0253.0	20	25.771.0353.0	36	25.790.1053.0	15
25.646.0853.0	60	25.647.1553.0	60	25.657.6408.0	64	25.741.0353.0	20	25.771.0453.0	36	25.790.1153.0	15
25.646.0906.0	61	25.647.1606.0	61	25.657.6508.0	64	25.741.0453.0	20	25.771.0553.0	36	25.790.1253.0	15
25.646.0916.0	61	25.647.1616.0	61	25.657.6608.0	64	25.741.0553.0	20	25.771.0653.0	36	25.790.1353.0	15
25.646.0953.0	60	25.647.1653.0	60	25.657.6708.0	64	25.741.0653.0	20	25.771.0753.0	36	25.790.1453.0	15
25.646.1006.0	61	25.647.3253.0	62	25.657.6808.0	64	25.741.0753.0	20	25.771.0853.0	36	25.790.1553.0	15
25.646.1016.0	61	25.647.3353.0	62	25.657.6908.0	64	25.741.0853.0	20	25.771.3253.0	37	25.790.1653.0	15
25.646.1053.0	60	25.647.3453.0	62	25.657.7008.0	64	25.741.0953.0	20	25.771.3353.0	37	25.791.0253.0	15
25.646.1106.0	61	25.647.3553.0	62	25.657.7108.0	64	25.741.1053.0	20	25.771.3453.0	37	25.791.0353.0	15
25.646.1116.0	61	25.647.3653.0	62	25.657.7208.0	64	25.741.1153.0	20	25.771.3553.0	37	25.791.0453.0	15
25.646.1153.0	60	25.647.3753.0	62	25.657.7308.0	64	25.741.1253.0	20	25.771.3653.0	37	25.791.0553.0	15
25.646.1206.0	61	25.647.3853.0	62	25.657.7408.0	64	25.741.1353.0	20	25.771.3753.0	37	25.791.0653.0	15
25.646.1216.0	61	25.647.3953.0	62	25.657.7508.0	64	25.741.1453.0	20	25.771.3853.0	37	25.791.0753.0	15
25.646.1253.0	60	25.647.4053.0	62	25.657.7608.0	64	25.741.1553.0	20	25.780.0253.0	15	25.791.0853.0	15
25.646.1306.0	61	25.647.4153.0	62	25.666.0208.0	65	25.741.1653.0	20	25.780.0353.0	15	25.791.0953.0	15
25.646.1316.0	61	25.647.4253.0	62	25.666.0308.0	65	25.741.3253.0	21	25.780.0453.0	15	25.791.1053.0	15
25.646.1353.0	60	25.647.4353.0	62	25.66							

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25.791.1253.0	15	25.821.3353.0	94	25.843.0453.0	95	25.881.0853.0	102	27.000.4353.0	23	27.334.1353.0	75
25.791.1353.0	15	25.821.3453.0	94	25.843.0553.0	95	25.881.0953.0	102	27.002.0253.0	44	27.334.1453.0	75
25.791.1453.0	15	25.821.3553.0	94	25.843.0553.0	95	25.881.1053.0	102	27.002.0353.0	44	27.334.1553.0	75
25.791.1553.0	15	25.821.3653.0	94	25.843.0653.0	95	25.881.1153.0	102	27.002.2253.0	44	27.334.1653.0	75
25.791.1653.0	15	25.821.3753.0	94	25.843.0653.0	95	25.881.1253.0	102	27.002.2353.0	44	27.336.0253.0	75
25.792.0253.0	39	25.821.3853.0	94	25.843.0753.0	95	25.881.3253.0	102	27.002.4253.0	45	27.336.0353.0	75
25.792.0353.0	39	25.821.3953.0	94	25.843.0853.0	95	25.881.3353.0	102	27.002.4353.0	45	27.336.0453.0	75
25.792.0453.0	39	25.821.4053.0	94	25.843.0953.0	95	25.881.3453.0	102	27.002.6153.0	43	27.336.0553.0	75
25.792.0553.0	39	25.821.4153.0	94	25.843.3253.0	95	25.881.3553.0	102	27.002.6353.0	43	27.336.0653.0	75
25.792.0653.0	39	25.821.4253.0	94	25.843.3353.0	95	25.881.3653.0	102	27.002.6453.0	43	27.336.0753.0	75
25.792.0753.0	39	25.821.4353.0	94	25.843.3453.0	95	25.881.3753.0	102	27.007.3253.0	18	27.336.0853.0	75
25.792.0853.0	39	25.821.4453.0	94	25.843.3553.0	95	25.881.3853.0	102	27.007.3353.0	18	27.336.0953.0	75
25.792.0953.0	39	25.821.4553.0	94	25.843.3653.0	95	25.881.3953.0	102	27.007.3453.0	18	27.336.1053.0	75
25.792.1053.0	39	25.821.4653.0	94	25.843.3753.0	95	25.881.4053.0	102	27.007.3553.0	18	27.336.1153.0	75
25.792.1153.0	39	25.840.0253.0	94	25.843.3853.0	95	25.881.4153.0	102	27.007.3653.0	18	27.336.1253.0	75
25.792.1253.0	39	25.840.0353.0	94	25.843.3953.0	95	25.881.4253.0	102	27.007.3753.0	18	27.336.1353.0	75
25.792.1353.0	39	25.840.0453.0	94	25.843.4053.0	95	26.350.3206.0	71	27.007.3853.0	18	27.336.1453.0	75
25.792.1453.0	39	25.840.0553.0	94	25.843.4153.0	95	26.350.3216.0	71	27.007.3953.0	18	27.336.1553.0	75
25.792.1553.0	39	25.840.0653.0	94	25.843.4253.0	95	26.350.3306.0	71	27.007.4053.0	18	27.336.1653.0	75
25.792.1653.0	39	25.840.0753.0	94	25.843.4353.0	95	26.350.3316.0	71	27.007.4153.0	18	27.341.3253.0	92
25.793.0253.0	39	25.840.0853.0	94	25.843.4453.0	95	26.350.3406.0	71	27.007.4253.0	18	27.341.3353.0	92
25.793.0353.0	39	25.840.0953.0	94	25.843.4553.0	95	26.350.3416.0	71	27.007.4353.0	18	27.341.3453.0	92
25.793.0453.0	39	25.840.1053.0	94	25.843.4653.0	95	26.350.3506.0	71	27.007.4453.0	18	27.341.3553.0	92
25.793.0553.0	39	25.840.1153.0	94	25.857.0253.0	96	26.350.3516.0	71	27.007.4553.0	18	27.341.3653.0	92
25.793.0653.0	39	25.840.1253.0	94	25.857.0353.0	96	26.350.3606.0	71	27.007.4653.0	18	27.341.3753.0	92
25.793.0753.0	39	25.840.1353.0	94	25.857.0453.0	96	26.350.3616.0	71	27.008.3253.0	27	27.341.3853.0	92
25.793.0853.0	39	25.840.1453.0	94	25.857.0553.0	96	26.350.3706.0	71	27.008.3353.0	27	27.341.3953.0	92
25.793.0953.0	39	25.840.1553.0	94	25.857.0653.0	96	26.350.3716.0	71	27.008.3453.0	27	27.341.4053.0	92
25.793.1053.0	39	25.840.1653.0	94	25.857.0753.0	96	26.350.3806.0	71	27.008.3553.0	27	27.341.4153.0	92
25.793.1153.0	39	25.840.3253.0	94	25.857.0853.0	96	26.350.3816.0	71	27.008.3653.0	27	27.341.4253.0	92
25.793.1253.0	39	25.840.3353.0	94	25.857.0953.0	96	26.350.3906.0	71	27.008.3753.0	27	27.341.4353.0	92
25.793.1353.0	39	25.840.3453.0	94	25.857.1053.0	96	26.350.3916.0	71	27.008.3853.0	27	27.341.4453.0	92
25.793.1453.0	39	25.840.3553.0	94	25.857.1153.0	96	26.350.4006.0	71	27.008.3953.0	27	27.341.4553.0	92
25.793.1553.0	39	25.840.3653.0	94	25.857.1253.0	96	26.350.4016.0	71	27.008.4053.0	27	27.341.4653.0	92
25.793.1653.0	39	25.840.3753.0	94	25.857.1353.0	96	26.350.4106.0	71	27.008.4153.0	27	27.354.0253.0	75
25.820.0253.0	94	25.840.3853.0	94	25.857.1453.0	96	26.350.4116.0	71	27.008.4253.0	27	27.354.0353.0	75
25.820.0353.0	94	25.840.3953.0	94	25.857.1553.0	96	26.350.4206.0	71	27.008.4353.0	27	27.354.0453.0	75
25.820.0453.0	94	25.840.4053.0	94	25.857.1653.0	96	26.350.4216.0	71	27.008.4453.0	27	27.354.0553.0	75
25.820.0553.0	94	25.840.4153.0	94	25.857.3253.0	96	26.350.4306.0	71	27.008.4553.0	27	27.354.0653.0	75
25.820.0653.0	94	25.840.4253.0	94	25.857.3353.0	96	26.350.4316.0	71	27.008.4653.0	27	27.354.0753.0	75
25.820.0753.0	94	25.840.4353.0	94	25.857.3453.0	96	26.350.4406.0	71	27.009.3253.0	27	27.354.0853.0	75
25.820.0853.0	94	25.840.4453.0	94	25.857.3553.0	96	26.350.4416.0	71	27.009.3353.0	27	27.354.0953.0	75
25.820.0953.0	94	25.840.4553.0	94	25.857.3653.0	96	26.350.4506.0	71	27.009.3453.0	27	27.354.1053.0	75
25.820.1053.0	94	25.840.4653.0	94	25.857.3753.0	96	26.350.4516.0	71	27.009.3553.0	27	27.354.1153.0	75
25.820.1153.0	94	25.841.0253.0	94	25.857.3853.0	96	26.350.4606.0	71	27.009.3653.0	27	27.354.1253.0	75
25.820.1253.0	94	25.841.0353.0	94	25.857.3953.0	96	26.350.4616.0	71	27.009.3753.0	27	27.354.1353.0	75
25.820.1353.0	94	25.841.0453.0	94	25.857.4053.0	96	26.352.3206.0	71	27.009.3853.0	27	27.354.1453.0	75
25.820.1453.0	94	25.841.0553.0	94	25.857.4153.0	96	26.352.3216.0	71	27.009.3953.0	27	27.354.1553.0	75
25.820.1553.0	94	25.841.0653.0	94	25.857.4253.0	96	26.352.3306.0	71	27.009.4053.0	27	27.354.1653.0	75
25.820.1653.0	94	25.841.0753.0	94	25.857.4353.0	96	26.352.3316.0	71	27.009.4153.0	27	27.356.0253.0	75
25.820.3253.0	94	25.841.0853.0	94	25.857.4453.0	96	26.352.3406.0	71	27.009.4253.0	27	27.356.0353.0	75
25.820.3353.0	94	25.841.0953.0	94	25.857.4553.0	96	26.352.3416.0	71	27.009.4353.0	27	27.356.0453.0	75
25.820.3453.0	94	25.841.1053.0	94	25.857.4653.0	96	26.352.3506.0	71	27.009.4453.0	27	27.356.0553.0	75
25.820.3553.0	94	25.841.1153.0	94	25.880.0253.0	102	26.352.3516.0	71	27.009.4553.0	27	27.356.0653.0	75
25.820.3653.0	94	25.841.1253.0	94	25.880.0353.0	102	26.352.3606.0	71	27.009.4653.0	27	27.356.0753.0	75
25.820.3753.0	94	25.841.1353.0	94	25.880.0453.0	102	26.352.3616.0	71	27.011.3253.0	35	27.356.0853.0	75
25.820.3853.0	94	25.841.1453.0	94	25.880.0553.0	102	26.352.3706.0	71	27.011.3353.0	35	27.356.0953.0	75
25.820.3953.0	94	25.841.1553.0	94	25.880.0653.0	102	26.352.3716.0	71	27.011.3453.0	35	27.356.1053.0	75
25.820.4053.0	94	25.841.1653.0	94	25.880.0753.0	102	26.352.3806.0	71	27.011.3553.0	35	27.356.1153.0	75
25.820.4153.0	94	25.841.3253.0	94	25.880.0853.0	102	26.352.3816.0	71	27.011.3653.0	35	27.356.1253.0	75
25.820.4253.0	94	25.841.3353.0	94	25.880.0953.0	102	26.352.3906.0	71	27.011.3753.0	35	27.356.1353.0	75
25.820.4353.0	94	25.841.3453.0	94	25.880.1053.0	102	26.352.3916.0	71	27.011.3853.0	35	27.356.1453.0	75
25.820.4453.0	94	25.841.3553.0	94	25.880.1153.0	102	26.352.4006.0	71	27.011.3953.0	35	27.356.1553.0	75
25.820.4553.0	94	25.841.3653.0	94	25.880.1253.0	102	26.352.4016.0	71	27.011.4053.0	35	27.356.1653.0	75
25.820.4653.0	94	25.841.3753.0	94	25.880.3253.0	102	26.352.4106.0	71	27.011.4153.0	35	27.602.0253.0	52
25.821.0253.0	94	25.841.3853.0	94	25.880.3353.0	102	26.352.4116.0	71	27.011.4253.0	35	27.602.0353.0	52
25.821.0353.0	94	25.841.3953.0	94	25.880.3453.0	102	26.352.4206.0	71	27.011.4353.0	35	27.602.0453.0	52
25.821.0453.0	94	25.841.4053.0	94	25.880.3553.0	102	26.352.4216.0	71	27.011.4453.0	35	27.602.0553.0	52
25.821.0553.0	94	25.841.4153.0	94	25.880.3653.0	102	26.352.4306.0	71	27.011.4553.0	35	27.602.0653.0	52
25.821.0653.0	94	25.841.4253.0	94	25.880.3753.0	102	26.352.4316.0	71	27.011.4653.0	35	27.602.0753.0	52
25.821.0753.0	94	25.841.4353.0	94	25.880.3853.0	102	26.352.4406.0	71	27.334.0253.0	75	27.602.0853.0	52
25.821.0853.0	94	25.841.4453.0	94	25.880.3953.0	102	26.352.4416.0	71	27.334.0353.0	75	27.602.0953.0	52
25.821.0953.0	94	25.841.4553.0	94	25.880.4053.0	102	26.352.4506.0	71	27.334.0453.0	75	27.602.1053.0	52
25.821.1053.0	94	25.841.4653.0	94	25.880.4153.0	102	26.352.4516.0	71	27.334.0553.0	75	27.602.1153.0	52
25.821.1153.0	94	25.843.0053.0	95	25.880.4253.0	102	26.352.4606.0	71	27.334.0653.0	75	27.602.1253.0	52
25.821.1253.0	94	25.843.0153.0	95	25.881.0253.0	102	26.352.4616.0	71	27.334.0753.0	75	27.602.1353.0	52
25.821.1353.0	94	25.843.0253.0	95	25.881.0353.0	102	27.000.0253.0	22	27.334.0853.0	75	27.602.1453.0	52
25.821.1453.0	94	25.843.0253.0	95	25.881.0453.0	102	27.000.0353.0	22	27.334.0953.0	75	27.602.1553.0	52
25.821.1553.0	94	25.843.0353.0	95	25.881.0553.0	102	27.000.2253.0	22	27.334.1053.0	75	27.602.1653.0	52
25.821.1653.0	94	25.843.0353.0	95	25.881.0653.0	102	27.000.2353.0	22	27.334.1153.0	75	27.602.3253.0	53
25.821.3253.0											

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27.602.3453.0	53	27.714.0453.0	31	Z5.530.0214.0	53	Z5.530.0925.0	51	Z5.530.4325.0	51	Z5.531.3825.0	49
27.602.3553.0	53	27.714.0553.0	31	Z5.530.0214.0	54	Z5.530.1004.0	116	Z5.530.4425.0	115	Z5.531.3925.0	114
27.602.3653.0	53	27.714.0653.0	31	Z5.530.0225.0	115	Z5.530.1004.0	52	Z5.530.4425.0	50	Z5.531.3925.0	49
27.602.3753.0	53	27.714.0753.0	31	Z5.530.0225.0	50	Z5.530.1004.0	53	Z5.530.4425.0	51	Z5.531.4025.0	114
27.602.3853.0	53	27.714.0853.0	31	Z5.530.0225.0	51	Z5.530.1004.0	54	Z5.530.4525.0	115	Z5.531.4025.0	49
27.602.3953.0	53	95.101.0800.0	123	Z5.530.0304.0	116	Z5.530.1014.0	116	Z5.530.4525.0	50	Z5.531.4125.0	114
27.602.4053.0	53	95.101.0800.0	123	Z5.530.0304.0	52	Z5.530.1014.0	52	Z5.530.4525.0	51	Z5.531.4125.0	49
27.602.4153.0	53	95.101.0800.0	93	Z5.530.0304.0	53	Z5.530.1014.0	53	Z5.530.4625.0	115	Z5.531.4225.0	114
27.602.4253.0	53	95.101.0800.0	93	Z5.530.0304.0	54	Z5.530.1014.0	54	Z5.530.4625.0	50	Z5.531.4225.0	49
27.602.4353.0	53	99.202.9996.0	66	Z5.530.0314.0	116	Z5.530.1025.0	115	Z5.530.4625.0	51	Z5.531.4325.0	114
27.602.4453.0	53	99.202.9996.2	67	Z5.530.0314.0	52	Z5.530.1025.0	50	Z5.530.6225.0	117	Z5.531.4325.0	49
27.602.4553.0	53	99.203.9996.0	66	Z5.530.0314.0	53	Z5.530.1025.0	51	Z5.530.6225.0	57	Z5.531.4425.0	114
27.602.4653.0	53	99.203.9996.2	67	Z5.530.0314.0	54	Z5.530.1104.0	116	Z5.530.6325.0	117	Z5.531.4425.0	49
27.602.6253.0	54	99.204.9996.0	66	Z5.530.0325.0	115	Z5.530.1104.0	52	Z5.530.6325.0	57	Z5.531.4525.0	114
27.602.6353.0	54	99.204.9996.2	67	Z5.530.0325.0	50	Z5.530.1104.0	53	Z5.530.6425.0	117	Z5.531.4525.0	49
27.602.6453.0	54	99.205.9996.0	66	Z5.530.0325.0	51	Z5.530.1104.0	54	Z5.530.6425.0	57	Z5.531.4625.0	114
27.602.6553.0	54	99.205.9996.2	67	Z5.530.0404.0	116	Z5.530.1114.0	116	Z5.530.6525.0	117	Z5.531.4625.0	49
27.602.6653.0	54	99.206.9996.0	66	Z5.530.0404.0	52	Z5.530.1114.0	52	Z5.530.6525.0	57	Z5.533.7121.0	121
27.602.6753.0	54	99.206.9996.2	67	Z5.530.0404.0	53	Z5.530.1114.0	53	Z5.530.6625.0	117	Z5.533.7121.0	121
27.602.6853.0	54	99.207.9996.0	66	Z5.530.0404.0	54	Z5.530.1114.0	54	Z5.530.6625.0	57	Z5.533.7221.0	121
27.602.6953.0	54	99.207.9996.2	67	Z5.530.0414.0	116	Z5.530.1125.0	115	Z5.530.6725.0	117	Z5.533.8221.0	121
27.602.7053.0	54	99.208.9996.0	66	Z5.530.0414.0	52	Z5.530.1125.0	50	Z5.530.6725.0	57	Z5.540.0225.0	115
27.602.7153.0	54	99.208.9996.2	67	Z5.530.0414.0	53	Z5.530.1125.0	51	Z5.530.6825.0	117	Z5.540.0325.0	115
27.602.7253.0	54	99.209.9996.0	66	Z5.530.0414.0	54	Z5.530.1204.0	116	Z5.530.6825.0	57	Z5.540.0425.0	115
27.602.7353.0	54	99.209.9996.2	67	Z5.530.0425.0	115	Z5.530.1204.0	52	Z5.530.8225.0	117	Z5.540.0525.0	115
27.602.7453.0	54	99.210.9996.0	66	Z5.530.0425.0	50	Z5.530.1204.0	53	Z5.530.8225.0	57	Z5.540.0625.0	115
27.602.7553.0	54	99.210.9996.2	67	Z5.530.0425.0	51	Z5.530.1204.0	54	Z5.530.8325.0	117	Z5.540.0725.0	115
27.602.7653.0	54	99.211.9996.0	66	Z5.530.0504.0	116	Z5.530.1214.0	116	Z5.530.8325.0	57	Z5.540.0825.0	115
27.630.3253.0	82	99.211.9996.2	67	Z5.530.0504.0	52	Z5.530.1214.0	52	Z5.530.8425.0	117	Z5.540.0925.0	115
27.630.3353.0	82	99.212.9996.0	66	Z5.530.0504.0	53	Z5.530.1214.0	53	Z5.530.8425.0	57	Z5.540.1025.0	115
27.630.3453.0	82	99.212.9996.2	67	Z5.530.0504.0	54	Z5.530.1214.0	54	Z5.530.8525.0	117	Z5.540.1125.0	115
27.630.3553.0	82	99.213.9996.0	66	Z5.530.0514.0	116	Z5.530.1225.0	115	Z5.530.8525.0	57	Z5.540.1225.0	115
27.630.3653.0	82	99.213.9996.2	67	Z5.530.0514.0	52	Z5.530.1225.0	50	Z5.530.8625.0	117	Z5.540.1325.0	115
27.630.3753.0	82	99.214.9996.0	66	Z5.530.0514.0	53	Z5.530.1225.0	51	Z5.530.8625.0	57	Z5.540.1425.0	115
27.630.3853.0	82	99.214.9996.2	67	Z5.530.0514.0	54	Z5.530.1325.0	115	Z5.530.8725.0	117	Z5.540.1525.0	115
27.630.3953.0	82	99.215.9996.0	66	Z5.530.0525.0	115	Z5.530.1325.0	50	Z5.530.8725.0	57	Z5.540.1625.0	115
27.630.3953.0	82	99.215.9996.2	67	Z5.530.0525.0	50	Z5.530.1325.0	51	Z5.530.8825.0	117	Z5.540.3225.0	115
27.630.4153.0	82	99.216.9996.0	66	Z5.530.0525.0	51	Z5.530.1425.0	115	Z5.530.8825.0	57	Z5.540.3325.0	115
27.630.4253.0	82	99.216.9996.2	67	Z5.530.0604.0	116	Z5.530.1425.0	50	Z5.531.0225.0	114	Z5.540.3425.0	115
27.630.4353.0	82	99.232.9996.1	66	Z5.530.0604.0	52	Z5.530.1425.0	51	Z5.531.0225.0	49	Z5.540.3525.0	115
27.630.4453.0	82	99.233.9996.1	66	Z5.530.0604.0	53	Z5.530.1525.0	115	Z5.531.0325.0	114	Z5.540.3625.0	115
27.630.4553.0	82	99.234.9996.1	66	Z5.530.0604.0	54	Z5.530.1525.0	50	Z5.531.0325.0	49	Z5.540.3725.0	115
27.630.4653.0	82	99.235.9996.1	66	Z5.530.0614.0	116	Z5.530.1525.0	51	Z5.531.0425.0	114	Z5.540.3825.0	115
27.631.3253.0	83	99.236.9996.1	66	Z5.530.0614.0	52	Z5.530.1625.0	115	Z5.531.0425.0	49	Z5.540.3925.0	115
27.631.3353.0	83	99.237.9996.1	66	Z5.530.0614.0	53	Z5.530.1625.0	50	Z5.531.0525.0	114	Z5.540.4025.0	115
27.631.3453.0	83	99.238.9996.1	66	Z5.530.0614.0	54	Z5.530.1625.0	51	Z5.531.0525.0	49	Z5.540.4125.0	115
27.631.3553.0	83	99.239.9996.1	66	Z5.530.0625.0	115	Z5.530.3225.0	115	Z5.531.0625.0	114	Z5.540.4225.0	115
27.631.3653.0	83	99.240.9996.1	66	Z5.530.0625.0	50	Z5.530.3225.0	50	Z5.531.0625.0	49	Z5.540.4325.0	115
27.631.3753.0	83	99.241.9996.1	66	Z5.530.0625.0	51	Z5.530.3225.0	51	Z5.531.0725.0	114	Z5.540.4425.0	115
27.631.3853.0	83	99.242.9996.1	66	Z5.530.0704.0	116	Z5.530.3325.0	115	Z5.531.0725.0	49	Z5.540.4525.0	115
27.631.3953.0	83	99.243.9996.1	66	Z5.530.0704.0	52	Z5.530.3325.0	50	Z5.531.0825.0	114	Z5.540.4625.0	115
27.631.3953.0	83	99.244.9996.1	66	Z5.530.0704.0	53	Z5.530.3325.0	51	Z5.531.0825.0	49	Z5.540.6225.0	117
27.631.4153.0	83	99.245.9996.1	66	Z5.530.0704.0	54	Z5.530.3425.0	115	Z5.531.0925.0	114	Z5.540.6325.0	117
27.631.4253.0	83	99.246.9996.1	66	Z5.530.0714.0	116	Z5.530.3425.0	50	Z5.531.0925.0	49	Z5.540.6425.0	117
27.631.4353.0	83	99.262.9996.0	67	Z5.530.0714.0	52	Z5.530.3425.0	51	Z5.531.1025.0	114	Z5.540.6525.0	117
27.631.4453.0	83	99.263.9996.0	67	Z5.530.0714.0	53	Z5.530.3525.0	115	Z5.531.1025.0	49	Z5.540.6625.0	117
27.631.4553.0	83	99.264.9996.0	67	Z5.530.0714.0	54	Z5.530.3525.0	50	Z5.531.1125.0	114	Z5.540.6725.0	117
27.631.4653.0	83	99.265.9996.0	67	Z5.530.0725.0	115	Z5.530.3525.0	51	Z5.531.1125.0	49	Z5.540.6825.0	117
27.647.1253.1	63	99.266.9996.0	67	Z5.530.0725.0	50	Z5.530.3625.0	115	Z5.531.1225.0	114	Z5.540.8225.0	117
27.647.1353.1	63	99.267.9996.0	67	Z5.530.0725.0	51	Z5.530.3625.0	50	Z5.531.1225.0	49	Z5.540.8325.0	117
27.647.1453.1	63	99.268.9996.0	67	Z5.530.0804.0	116	Z5.530.3625.0	51	Z5.531.1325.0	114	Z5.540.8425.0	117
27.647.1553.1	63	99.269.9996.0	67	Z5.530.0804.0	52	Z5.530.3725.0	115	Z5.531.1325.0	49	Z5.540.8525.0	117
27.647.1653.1	63	99.270.9996.0	67	Z5.530.0804.0	53	Z5.530.3725.0	50	Z5.531.1425.0	114	Z5.540.8625.0	117
27.647.1753.1	63	99.271.9996.0	67	Z5.530.0804.0	54	Z5.530.3725.0	51	Z5.531.1425.0	49	Z5.540.8725.0	117
27.647.1853.1	63	99.272.9996.0	67	Z5.530.0814.0	116	Z5.530.3825.0	115	Z5.531.1525.0	114	Z5.540.8825.0	117
27.647.1953.1	63	99.273.9996.0	67	Z5.530.0814.0	52	Z5.530.3825.0	50	Z5.531.1525.0	49		
27.647.2053.1	63	99.274.9996.0	67	Z5.530.0814.0	53	Z5.530.3825.0	51	Z5.531.1625.0	114		
27.647.2153.1	63	99.275.9996.0	67	Z5.530.0814.0	54	Z5.530.3925.0	115	Z5.531.1625.0	49		
27.647.2253.1	63	99.276.9996.0	67	Z5.530.0825.0	115	Z5.530.3925.0	50	Z5.531.3225.0	114		
27.647.2353.1	63	Z5.523.2453.0	118	Z5.530.0825.0	50	Z5.530.3925.0	51	Z5.531.3225.0	49		
27.647.2453.1	63	Z5.523.2453.0	118	Z5.530.0825.0	51	Z5.530.4025.0	115	Z5.531.3325.0	114		
27.647.2553.1	63	Z5.523.7653.0	119	Z5.530.0904.0	116	Z5.530.4025.0	50	Z5.531.3325.0	49		
27.647.2653.1	63	Z5.523.7653.0	119	Z5.530.0904.0	52	Z5.530.4025.0	51	Z5.531.3425.0	114		
27.703.0253.0	38	Z5.523.7753.0	118	Z5.530.0904.0	53	Z5.530.4125.0	115	Z5.531.3425.0	49		
27.703.0353.0	38	Z5.523.7853.0	118	Z5.530.0904.0	54	Z5.530.4125.0	50	Z5.531.3525.0	114		
27.703.0453.0	38	Z5.530.0204.0	116	Z5.530.0914.0	116	Z5.530.4125.0	51	Z5.531.3525.0	49		
27.713.0253.0	38	Z5.530.0204.0	52	Z5.530.0914.0	52	Z5.530.4225.0	115	Z5.531.3625.0	114		
27.713.0353.0	38	Z5.530.0204.0	53	Z5.530.0914.0	53	Z5.530.4225.0	50	Z5.531.3625.0	49		
27.713.0453.0	38	Z5.530.0204.0	54	Z5.530.0914.0	54	Z5.530.4225.0	51	Z5.531.3725.0	114		
27.714.0253.0	31	Z5.530.0214.0	116	Z5.530.0925.0	115	Z5.530.4325.0	115	Z5.531.3725.0	49		
27.714.0353.0	31	Z5.530.0214.0	52	Z5.530.0925.0	50	Z5.530.4325.0	50	Z5.531.3825.0	114		



Established in industries

Control cabinet engineering, industrial automation, building system technology – our large product portfolio provides solutions for all kinds of applications.

From innovative interface and network technology to terminal blocks to "safety first" – with modular system solutions and safety components. With Wieland products in your control cabinet, you are always on the safe side.

Energy bus systems for distributed automation or indoor and outdoor field

bus components – Wieland technology can be found everywhere, and in all kinds of applications.

In building system technology, Wieland Electric is the world market leader in pluggable electrical installation.

There are good reasons why our system solutions can be found in the most spectacular building projects worldwide. When it comes to electronic networking, Wieland leads the way to the "smart home".

Welcome Future

Wieland Electric is 100 years young, and full of innovative energy. And our commitment for the future is not only to find constantly new system solutions for our customers but also social responsibility.

Environmentally friendly high-tech products, manufactured to the latest production standards, an audited environmental management system and substantial investments in our locations are all part to this concept.

Global commitment and sustainable regional action – Wieland Electric is fit for the future: Contacts are green.



Our subsidiaries

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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 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safe signal acquisition
 - Safety switching devices
 - Modular safety modules
 - Compact safety controllers
 - Application consulting 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 wireless technology
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection

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