2

PCB-COMPONENTS

PCB-COMPONENTS

CATALOGUE 2002/03 CATALOGUE 2002/03
CATALOGUE 2002/03

CATALOGUE 2002/03

CATALOGUE EXTRACT

SL-SMT 5.08

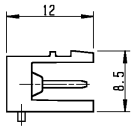
When good enough just isn't good enough

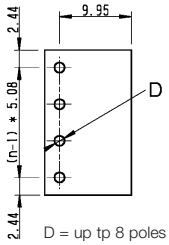
Weidmüller

Omnimate Range - Pitch 5.08 mm

Pin headers SL-SMT 5.08/90

new





D = up tp 8 poles Ø 1.4 +0.1
from 9 poles Ø 1.5 +0.1

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tape-on-Reel
Colour ●
Tape width **56 mm**

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90	**1774764001**	250
3	SL-SMT 5.08/3/90	**1774774001**	250
4	SL-SMT 5.08/4/90	**1774784001**	250
5	SL-SMT 5.08/5/90	**1774794001**	250
6	SL-SMT 5.08/6/90	**1774804001**	250
7	SL-SMT 5.08/7/90	**1774814001**	250
8	SL-SMT 5.08/8/90	**1774824001**	250

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tray
Colour ●

Poles	Type	Cat. No.	Qty.
–	–	–	–
–	–	–	–
4	SL-SMT 5.08/4/90	**1774783001**	66
5	SL-SMT 5.08/5/90	**1774793001**	54
6	SL-SMT 5.08/6/90	**1774803001**	48
7	SL-SMT 5.08/7/90	**1774813001**	42
8	SL-SMT 5.08/8/90	**1774823001**	36
9	SL-SMT 5.08/9/90	**1774833001**	30
10	SL-SMT 5.08/10/90	**1774843001**	30
11	SL-SMT 5.08/11/90	**1774853001**	24
12	SL-SMT 5.08/12/90	**1774863001**	24
13	SL-SMT 5.08/13/90	**1774873001**	24
14	SL-SMT 5.08/14/90	**1774883001**	18
15	SL-SMT 5.08/15/90	**1774893001**	18
16	SL-SMT 5.08/16/90	**1774903001**	18
17	SL-SMT 5.08/17/90	**1774913001**	18
18	SL-SMT 5.08/18/90	**1774923001**	18
19	SL-SMT 5.08/19/90	**1774933001**	12
20	SL-SMT 5.08/20/90	**1774943001**	12
21	SL-SMT 5.08/21/90	**1774953001**	12
22	SL-SMT 5.08/22/90	**1774963001**	12
23	SL-SMT 5.08/23/90	**1774973001**	12
24	SL-SMT 5.08/24/90	**1774983001**	12

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Standard Box
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90	**1774762001**	100
3	SL-SMT 5.08/3/90	**1774772001**	100
4	SL-SMT 5.08/4/90	**1774782001**	100
5	SL-SMT 5.08/5/90	**1774792001**	50
6	SL-SMT 5.08/6/90	**1774802001**	50
7	SL-SMT 5.08/7/90	**1774812001**	50
8	SL-SMT 5.08/8/90	**1774822001**	50
9	SL-SMT 5.08/9/90	**1774832001**	50
10	SL-SMT 5.08/10/90	**1774842001**	50
11	SL-SMT 5.08/11/90	**1774852001**	50
12	SL-SMT 5.08/12/90	**1774862001**	50
13	SL-SMT 5.08/13/90	**1774872001**	50
14	SL-SMT 5.08/14/90	**1774882001**	50
15	SL-SMT 5.08/15/90	**1774892001**	50
16	SL-SMT 5.08/16/90	**1774902001**	50
17	SL-SMT 5.08/17/90	**1774912001**	20
18	SL-SMT 5.08/18/90	**1774922001**	20
19	SL-SMT 5.08/19/90	**1774932001**	20
20	SL-SMT 5.08/20/90	**1774942001**	20
21	SL-SMT 5.08/21/90	**1774952001**	20
22	SL-SMT 5.08/22/90	**1774962001**	20
23	SL-SMT 5.08/23/90	**1774972001**	20
24	SL-SMT 5.08/24/90	**1774982001**	20

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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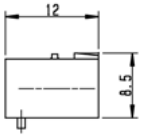
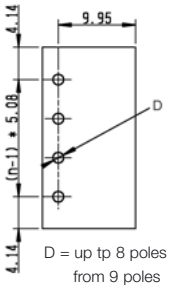
Pin headers SL-SMT 5.08/90G

new





D = up tp 8 poles Ø 1.4 $^{+0.1}$
from 9 poles Ø 1.5 $^{+0.1}$

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tape-on-Reel
Colour ●
Tape width **56 mm**

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90G	**1775004001**	250
3	SL-SMT 5.08/3/90G	**1775014001**	250
4	SL-SMT 5.08/4/90G	**1775024001**	250
5	SL-SMT 5.08/5/90G	**1775034001**	250
6	SL-SMT 5.08/6/90G	**1775044001**	250
7	SL-SMT 5.08/7/90G	**1775054001**	250

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tray
Colour ●

Poles	Type	Cat. No.	Qty.
–	–	–	–
–	–	–	–
4	SL-SMT 5.08/4/90G	**1775023001**	66
5	SL-SMT 5.08/5/90G	**1775033001**	54
6	SL-SMT 5.08/6/90G	**1775043001**	48
7	SL-SMT 5.08/7/90G	**1775053001**	42
8	SL-SMT 5.08/8/90G	**1775063001**	36
9	SL-SMT 5.08/9/90G	**1775073001**	30
10	SL-SMT 5.08/10/90G	**1775083001**	30
11	SL-SMT 5.08/11/90G	**1775093001**	24
12	SL-SMT 5.08/12/90G	**1775103001**	24
13	SL-SMT 5.08/13/90G	**1775113001**	24
14	SL-SMT 5.08/14/90G	**1775123001**	18
15	SL-SMT 5.08/15/90G	**1775133001**	18
16	SL-SMT 5.08/16/90G	**1775143001**	18
17	SL-SMT 5.08/17/90G	**1775153001**	18
18	SL-SMT 5.08/18/90G	**1775163001**	18
19	SL-SMT 5.08/19/90G	**1775173001**	12
20	SL-SMT 5.08/20/90G	**1775183001**	12
21	SL-SMT 5.08/21/90G	**1775193001**	12
22	SL-SMT 5.08/22/90G	**1775203001**	12
23	SL-SMT 5.08/23/90G	**1775213001**	12
24	SL-SMT 5.08/24/90G	**1775223001**	12

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Standard Box
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90G	**1775002001**	100
3	SL-SMT 5.08/3/90G	**1775012001**	100
4	SL-SMT 5.08/4/90G	**1775022001**	100
5	SL-SMT 5.08/5/90G	**1775032001**	50
6	SL-SMT 5.08/6/90G	**1775042001**	50
7	SL-SMT 5.08/7/90G	**1775052001**	50
8	SL-SMT 5.08/8/90G	**1775062001**	36
9	SL-SMT 5.08/9/90G	**1775072001**	50
10	SL-SMT 5.08/10/90G	**1775082001**	50
11	SL-SMT 5.08/11/90G	**1775092001**	50
12	SL-SMT 5.08/12/90G	**1775102001**	50
13	SL-SMT 5.08/13/90G	**1775112001**	50
14	SL-SMT 5.08/14/90G	**1775122001**	50
15	SL-SMT 5.08/15/90G	**1775132001**	50
16	SL-SMT 5.08/16/90G	**1775142001**	50
17	SL-SMT 5.08/17/90G	**1775152001**	20
18	SL-SMT 5.08/18/90G	**1775162001**	20
19	SL-SMT 5.08/19/90G	**1775172001**	20
20	SL-SMT 5.08/20/90G	**1775182001**	20
21	SL-SMT 5.08/21/90G	**1775192001**	20
22	SL-SMT 5.08/22/90G	**1775202001**	20
23	SL-SMT 5.08/23/90G	**1775212001**	20
24	SL-SMT 5.08/24/90G	**1775222001**	20

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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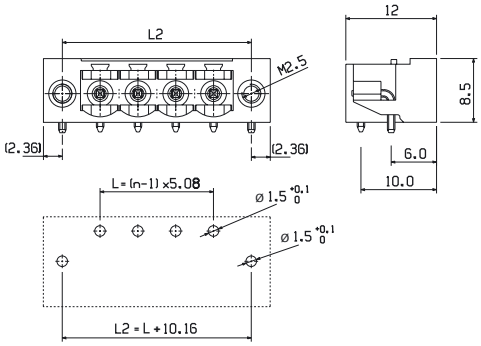
Omnimate Range - Pitch 5.08 mm

Pin headers SL-SMT 5.08/90LF

new



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tape-on-Reel
Colour ●
Tape width **56 mm**

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90LF	**1775234001**	250
3	SL-SMT 5.08/3/90LF	**1775244001**	250
4	SL-SMT 5.08/4/90LF	**1775254001**	250
5	SL-SMT 5.08/5/90LF	**1775264001**	250
6	SL-SMT 5.08/6/90LF	**1775274001**	250

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

Accessories	Page
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Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tray
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90LF	**1775233001**	66
3	SL-SMT 5.08/3/90LF	**1775243001**	54
4	SL-SMT 5.08/4/90LF	**1775253001**	48
5	SL-SMT 5.08/5/90LF	**1775263001**	42
6	SL-SMT 5.08/6/90LF	**1775273001**	36
7	SL-SMT 5.08/7/90LF	**1775283001**	30
8	SL-SMT 5.08/8/90LF	**1775293001**	30
9	SL-SMT 5.08/9/90LF	**1775303001**	24
10	SL-SMT 5.08/10/90LF	**1775313001**	24
11	SL-SMT 5.08/11/90LF	**1775323001**	24
12	SL-SMT 5.08/12/90LF	**1775333001**	18
13	SL-SMT 5.08/13/90LF	**1775343001**	18
14	SL-SMT 5.08/14/90LF	**1775353001**	18
15	SL-SMT 5.08/15/90LF	**1775363001**	18
16	SL-SMT 5.08/16/90LF	**1775373001**	12
17	SL-SMT 5.08/17/90LF	**1775383001**	12
18	SL-SMT 5.08/18/90LF	**1775393001**	12
19	SL-SMT 5.08/19/90LF	**1775403001**	12
20	SL-SMT 5.08/20/90LF	**1775413001**	12
21	SL-SMT 5.08/21/90LF	**1775423001**	12
22	SL-SMT 5.08/22/90LF	**1775433001**	12
23	SL-SMT 5.08/23/90LF	**1775443001**	12
24	SL-SMT 5.08/24/90LF	**1775453001**	12

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Standard Box
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/90LF	**1775232001**	100
3	SL-SMT 5.08/3/90LF	**1775242001**	100
4	SL-SMT 5.08/4/90LF	**1775252001**	100
5	SL-SMT 5.08/5/90LF	**1775262001**	50
6	SL-SMT 5.08/6/90LF	**1775272001**	50
7	SL-SMT 5.08/7/90LF	**1775282001**	50
8	SL-SMT 5.08/8/90LF	**1775292001**	50
9	SL-SMT 5.08/9/90LF	**1775302001**	50
10	SL-SMT 5.08/10/90LF	**1775312001**	50
11	SL-SMT 5.08/11/90LF	**1775322001**	50
12	SL-SMT 5.08/12/90LF	**1775332001**	50
13	SL-SMT 5.08/13/90LF	**1775342001**	50
14	SL-SMT 5.08/14/90LF	**1775352001**	50
15	SL-SMT 5.08/15/90LF	**1775362001**	50
16	SL-SMT 5.08/16/90LF	**1775372001**	50
17	SL-SMT 5.08/17/90LF	**1775382001**	20
18	SL-SMT 5.08/18/90LF	**1775392001**	20
19	SL-SMT 5.08/19/90LF	**1775402001**	20
20	SL-SMT 5.08/20/90LF	**1775412001**	20
21	SL-SMT 5.08/21/90LF	**1775422001**	20
22	SL-SMT 5.08/22/90LF	**1775432001**	20
23	SL-SMT 5.08/23/90LF	**1775442001**	20
24	SL-SMT 5.08/24/90LF	**1775452001**	20

For detailed product and application information for SMT see chapter “Other Applications” page 180-188.

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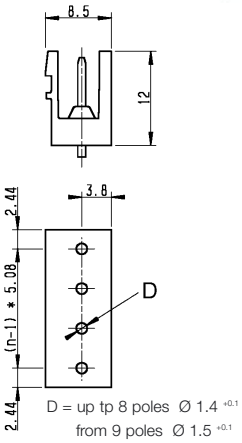
Pin headers SL-SMT 5.08/180

new



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tape-on-Reel
Colour ●
Tape width **56 mm**

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180	**1775524001**	200
3	SL-SMT 5.08/3/180	**1775574001**	200
4	SL-SMT 5.08/4/180	**1775594001**	200
5	SL-SMT 5.08/5/180	**1775634001**	200
6	SL-SMT 5.08/6/180	**1775644001**	200
7	SL-SMT 5.08/7/180	**1775654001**	200
8	SL-SMT 5.08/8/180	**1775664001**	200

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

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Miscellaneous	–

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tray
Colour ●

Poles	Type	Cat. No.	Qty.
–	–	–	–
–	–	–	–
4	SL-SMT 5.08/4/180	**1775593001**	66
5	SL-SMT 5.08/5/180	**1775633001**	54
6	SL-SMT 5.08/6/180	**1775643001**	48
7	SL-SMT 5.08/7/180	**1775653001**	42
8	SL-SMT 5.08/8/180	**1775663001**	36
9	SL-SMT 5.08/9/180	**1775673001**	30
10	SL-SMT 5.08/10/180	**1775683001**	30
11	SL-SMT 5.08/11/180	**1775693001**	24
12	SL-SMT 5.08/12/180	**1775703001**	24
13	SL-SMT 5.08/13/180	**1775713001**	24
14	SL-SMT 5.08/14/180	**1775723001**	18
15	SL-SMT 5.08/15/180	**1775733001**	18
16	SL-SMT 5.08/16/180	**1775743001**	18
17	SL-SMT 5.08/17/180	**1775753001**	18
18	SL-SMT 5.08/18/180	**1775763001**	12
19	SL-SMT 5.08/19/180	**1775773001**	12
20	SL-SMT 5.08/20/180	**1775783001**	12
21	SL-SMT 5.08/21/180	**1775793001**	12
22	SL-SMT 5.08/22/180	**1775803001**	12
23	SL-SMT 5.08/23/180	**1775813001**	12
24	SL-SMT 5.08/24/180	**1775823001**	12

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

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Fixing	–
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Miscellaneous	–

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Standard Box
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180	**1775522001**	100
3	SL-SMT 5.08/3/180	**1775572001**	100
4	SL-SMT 5.08/4/180	**1775592001**	100
5	SL-SMT 5.08/5/180	**1775632001**	50
6	SL-SMT 5.08/6/180	**1775642001**	50
7	SL-SMT 5.08/7/180	**1775652001**	50
8	SL-SMT 5.08/8/180	**1775662001**	50
9	SL-SMT 5.08/9/180	**1775672001**	50
10	SL-SMT 5.08/10/180	**1775682001**	50
11	SL-SMT 5.08/11/180	**1775692001**	50
12	SL-SMT 5.08/12/180	**1775702001**	50
13	SL-SMT 5.08/13/180	**1775712001**	50
14	SL-SMT 5.08/14/180	**1775722001**	50
15	SL-SMT 5.08/15/180	**1775732001**	50
16	SL-SMT 5.08/16/180	**1775742001**	50
17	SL-SMT 5.08/17/180	**1775752001**	20
18	SL-SMT 5.08/18/180	**1775762001**	20
19	SL-SMT 5.08/19/180	**1775772001**	20
20	SL-SMT 5.08/20/180	**1775782001**	20
21	SL-SMT 5.08/21/180	**1775792001**	20
22	SL-SMT 5.08/22/180	**1775802001**	20
23	SL-SMT 5.08/23/180	**1775812001**	20
24	SL-SMT 5.08/24/180	**1775822001**	20

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

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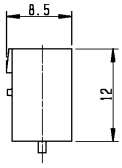
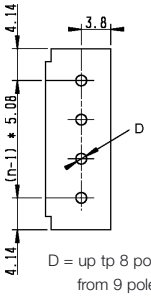
Omnimate Range - Pitch 5.08 mm

Pin headers SL-SMT 5.08/180G

new





D = up tp 8 poles Ø 1.4 $^{+0.1}$
from 9 poles Ø 1.5 $^{+0.1}$

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tape-on-Reel
Colour ●
Tape width **56 mm**

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180G	**1775924001**	200
3	SL-SMT 5.08/3/180G	**1775934001**	200
4	SL-SMT 5.08/4/180G	**1775944001**	200
5	SL-SMT 5.08/5/180G	**1775954001**	200
6	SL-SMT 5.08/6/180G	**1775964001**	200
7	SL-SMT 5.08/7/180G	**1775974001**	200

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

Accessories	Page
Fixing	–
Marking	196
Coding	198,199
Miscellaneous	–

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Tray
Colour ●

Poles	Type	Cat. No.	Qty.
–	–	–	–
–	–	–	–
4	SL-SMT 5.08/4/180G	**1775943001**	66
5	SL-SMT 5.08/5/180G	**1775953001**	54
6	SL-SMT 5.08/6/180G	**1775963001**	48
7	SL-SMT 5.08/7/180G	**1775973001**	42
8	SL-SMT 5.08/8/180G	**1775983001**	36
9	SL-SMT 5.08/9/180G	**1775993001**	30
10	SL-SMT 5.08/10/180G	**1776003001**	30
11	SL-SMT 5.08/11/180G	**1776013001**	24
12	SL-SMT 5.08/12/180G	**1776023001**	24
13	SL-SMT 5.08/13/180G	**1776243001**	24
14	SL-SMT 5.08/14/180G	**1776253001**	18
15	SL-SMT 5.08/15/180G	**1776263001**	18
16	SL-SMT 5.08/16/180G	**1776273001**	18
17	SL-SMT 5.08/17/180G	**1776283001**	18
18	SL-SMT 5.08/18/180G	**1776293001**	12
19	SL-SMT 5.08/19/180G	**1776303001**	12
20	SL-SMT 5.08/20/180G	**1776313001**	12
21	SL-SMT 5.08/21/180G	**1776323001**	12
22	SL-SMT 5.08/22/180G	**1776333001**	12
23	SL-SMT 5.08/23/180G	**1776343001**	12
24	SL-SMT 5.08/24/180G	**1776353001**	12

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

Accessories	Page
Fixing	–
Marking	196
Coding	198,199
Miscellaneous	–

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length **1.5 mm**
Standard Box
Colour ●

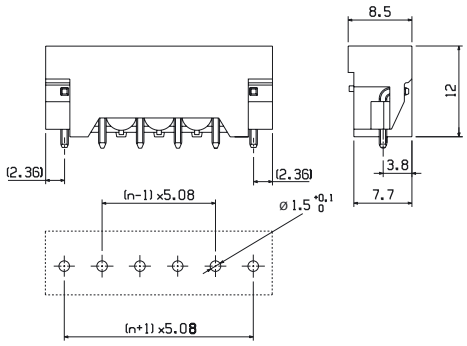
Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180G	**1775922001**	100
3	SL-SMT 5.08/3/180G	**1775932001**	100
4	SL-SMT 5.08/4/180G	**1775942001**	100
5	SL-SMT 5.08/5/180G	**1775952001**	50
6	SL-SMT 5.08/6/180G	**1775962001**	50
7	SL-SMT 5.08/7/180G	**1775972001**	50
8	SL-SMT 5.08/8/180G	**1775982001**	50
9	SL-SMT 5.08/9/180G	**1775992001**	50
10	SL-SMT 5.08/10/180G	**1776002001**	50
11	SL-SMT 5.08/11/180G	**1776012001**	50
12	SL-SMT 5.08/12/180G	**1776022001**	50
13	SL-SMT 5.08/13/180G	**1776242001**	50
14	SL-SMT 5.08/14/180G	**1776252001**	50
15	SL-SMT 5.08/15/180G	**1776262001**	50
16	SL-SMT 5.08/16/180G	**1776272001**	50
17	SL-SMT 5.08/17/180G	**1776282001**	20
18	SL-SMT 5.08/18/180G	**1776292001**	20
19	SL-SMT 5.08/19/180G	**1776302001**	20
20	SL-SMT 5.08/20/180G	**1776312001**	20
21	SL-SMT 5.08/21/180G	**1776322001**	20
22	SL-SMT 5.08/22/180G	**1776332001**	20
23	SL-SMT 5.08/23/180G	**1776342001**	20
24	SL-SMT 5.08/24/180G	**1776352001**	20

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

Accessories	Page
Fixing	–
Marking	196
Coding	198,199
Miscellaneous	–

Pin headers SL-SMT 5.08/180LF

new



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length 1.5 mm
Tape-on-Reel
Colour ●
Tape width 56 mm

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180LF	**1776364001**	200
3	SL-SMT 5.08/3/180LF	**1776374001**	200
4	SL-SMT 5.08/4/180LF	**1776384001**	200
5	SL-SMT 5.08/5/180LF	**1776394001**	200
6	SL-SMT 5.08/6/180LF	**1776404001**	200

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

Accessories	Page
Fixing	integrated in product
Marking	196
Coding	198,199
Miscellaneous	–

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length 1.5 mm
Tray
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180LF	**1776363001**	66
3	SL-SMT 5.08/3/180LF	**1776373001**	54
4	SL-SMT 5.08/4/180LF	**1776383001**	48
5	SL-SMT 5.08/5/180LF	**1776393001**	42
6	SL-SMT 5.08/6/180LF	**1776403001**	36
7	SL-SMT 5.08/7/180LF	**1776413001**	30
8	SL-SMT 5.08/8/180LF	**1776423001**	30
9	SL-SMT 5.08/9/180LF	**1776433001**	24
10	SL-SMT 5.08/10/180LF	**1776443001**	24
11	SL-SMT 5.08/11/180LF	**1776453001**	24
12	SL-SMT 5.08/12/180LF	**1776463001**	18
13	SL-SMT 5.08/13/180LF	**1776473001**	18
14	SL-SMT 5.08/14/180LF	**1776483001**	18
15	SL-SMT 5.08/15/180LF	**1776493001**	18
16	SL-SMT 5.08/16/180LF	**1776503001**	12
17	SL-SMT 5.08/17/180LF	**1776513001**	12
18	SL-SMT 5.08/18/180LF	**1776523001**	12
19	SL-SMT 5.08/19/180LF	**1776533001**	12
20	SL-SMT 5.08/20/180LF	**1776543001**	12
21	SL-SMT 5.08/21/180LF	**1776553001**	12
22	SL-SMT 5.08/22/180LF	**1776573001**	12
23	SL-SMT 5.08/23/180LF	**1776583001**	12
24	SL-SMT 5.08/24/180LF	**1776593001**	12

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

Accessories	Page
Fixing	integrated in product
Marking	196
Coding	198,199
Miscellaneous	–

Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	15	10	10

*Overvoltage category III / Pollution severity 3

Additional technical data see page 215

Solder pin length 1.5 mm
Standard Box
Colour ●

Poles	Type	Cat. No.	Qty.
2	SL-SMT 5.08/2/180LF	**1776362001**	100
3	SL-SMT 5.08/3/180LF	**1776372001**	100
4	SL-SMT 5.08/4/180LF	**1776382001**	100
5	SL-SMT 5.08/5/180LF	**1776392001**	50
6	SL-SMT 5.08/6/180LF	**1776402001**	50
7	SL-SMT 5.08/7/180LF	**1776412001**	50
8	SL-SMT 5.08/8/180LF	**1776422001**	50
9	SL-SMT 5.08/9/180LF	**1776432001**	50
10	SL-SMT 5.08/10/180LF	**1776442001**	50
11	SL-SMT 5.08/11/180LF	**1776452001**	50
12	SL-SMT 5.08/12/180LF	**1776462001**	50
13	SL-SMT 5.08/13/180LF	**1776472001**	50
14	SL-SMT 5.08/14/180LF	**1776482001**	50
15	SL-SMT 5.08/15/180LF	**1776492001**	50
16	SL-SMT 5.08/16/180LF	**1776502001**	50
17	SL-SMT 5.08/17/180LF	**1776512001**	20
18	SL-SMT 5.08/18/180LF	**1776522001**	20
19	SL-SMT 5.08/19/180LF	**1776532001**	20
20	SL-SMT 5.08/20/180LF	**1776542001**	20
21	SL-SMT 5.08/21/180LF	**1776552001**	20
22	SL-SMT 5.08/22/180LF	**1776572001**	20
23	SL-SMT 5.08/23/180LF	**1776582001**	20
24	SL-SMT 5.08/24/180LF	**1776592001**	20

For detailed product and application information for SMT see chapter "Other Applications" page 180-188.

Accessories	Page
Fixing	integrated in product
Marking	196
Coding	198,199
Miscellaneous	–

Materials		SL-SMT 5.00/5.08	SLDF 5.08L/F
Insulation material		LCP, halogen-free	PBT
Colour		black	orange 1)
Temperature range	°C	–	-20…+100
Operating temperature with BLZ 5.00/5.08	°C	-20…+100	–
Flammability class.	UL94	V-0	V-0
Contact base material		CuSn	CuSn
Contact plating 2)		tin-plated	tin-plated
System characteristic values			
Pitch	mm	5.00 / 5.08	5.08
Connection method		Through-Hole solder	solder/push-on tab connect.
Processing method		Reflow solder	–
Solder pin length	mm	$1.5^{-0.3}$ 16)	–
PCB hole diameter	Ømm	$1.4^{+0.1}$ 17) 19)	–
Insulation resistance	MΩ	≥ 10^6	≥ 10^5
Through resistance	mΩ	≤ 4.2	≤ 7.5
Torque	Nm	–	–
Solder heat resistance accord. to EN 61760-1	°C/sec.	290/30 (class A)	–
Conductor size			18)
Clamping range	mm^2	–	0.13 …2.5
"e" solid H05(07) V-U	mm^2	–	0.13 …2.5
"f" flexible H05(07) V-K	mm^2	–	0.13 …2.5
"f" with ferrule to DIN 46228/1	mm^2	–	–
… with plastic collar to DIN 46228/4	mm^2	–	–
VDE 0110 4.97 rated data			
Rated cross-section	mm^2	–	1.0 18)
Rated current 3)	A	15	8 (solder), 12 (push-on tab) 18)
Overvoltage category / Pollution severity		III/3 III/2 II/2	III/3 III/2 II/2
Rated voltage	V	250 320 400	250 400 400
Impulse voltage	kV	4.0 4.0 4.0	2.0 2.0 2.0
UL rated data			
Rated voltage, industrial	V~	300	300
Rated current	A	10	10
AWG conductor (field wiring)		–	–
CSA rated data			
Rated voltage, industrial	V~	300	300
Rated current	A	10	10
AWG conductor (field wiring)		–	

Application notes

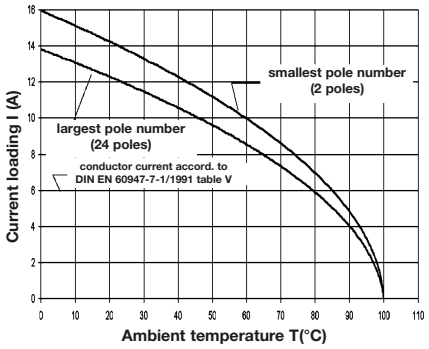
1) additional colours on request
2) gold-plated contact plating on request
3) referred to 20°C ambient temperature, rated cross-section and max. poles in connection with BLZ 5.00 resp.BLZ 5.08
16) additional solder pin lengths on request
17) see chapter SL-SMT "Design recommendations" on page 180-188
18) solder connection for solid and flexible wires up to 2.5 mm^2 with insulated sleeves, or with 2.8 mm faston-crimps with insulation sleeves according to DIN IEC 760
19) from 9 poles on $1.5^{+0.1}$

Ordering data: page 104-109, 116-121

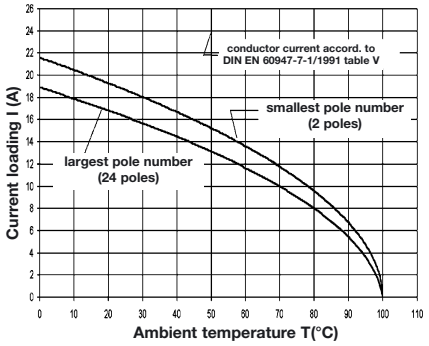
Ordering data: page 179

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

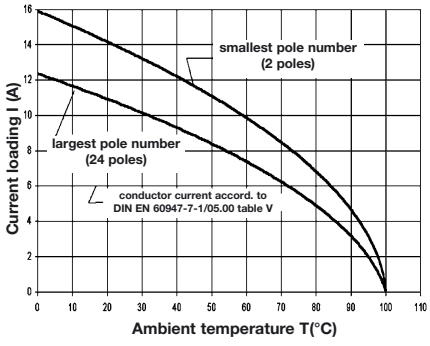
Weidmueller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.



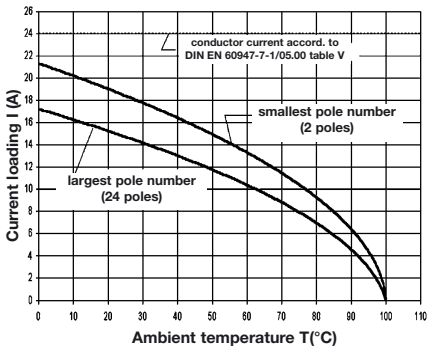
SL-SMT 5.08 with BLZ 5.08
Conductor H05V-K0.5



SL-SMT 5.08 with BLZ 5.08
Conductor H07V-K2.5



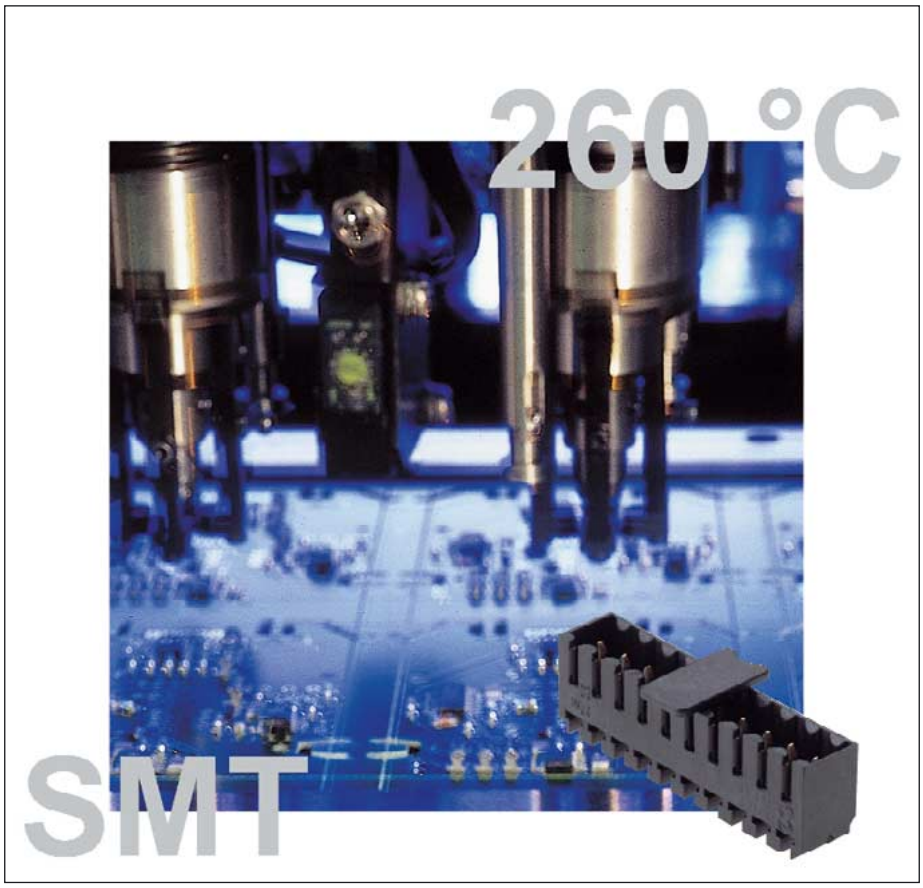
SL-SMT 5.00 with BLZ 5.00
Conductor H05V-K0.5



SL-SMT 5.00 with BLZ 5.00
Conductor H07V-K2.5

SL-SMT

… reduces costs in the production process



SL-SMT are the high temperature resistant pin headers specially developed to be compatible with reflow production processes. Existing pcb connector headers cannot withstand the high temperatures experienced in reflow soldering - up to 260 °C. The SL-SMT has been designed using LCP (Liquid Crystal Polymer) which is stable at these high temperatures.

In addition, convential assembly of pcb modules requires both Wave Soldering for standard THT (Through-Hole-Technology) components like pcb connector headers; and then Reflow Soldering for the SMT (Surface-Mount-Technology) components. With the SL-SMT, which uses THR technology, the Wave Solder operation is not needed. The shorter THR solder pins offer the flexibility of SMT components but achieve a mechanical strength of 10x that of “Gull Wing” SMT components. This additional strength is of great importance for pcb connectors where connection operations put strain onto standard SMT solder joints.

The SL-SMT is not only suitable for the latest soldering techniques, it has also been designed to be compatible with standard automatic “Pick-and-Place” machines. “Tape-on-Reel” and “Tray” packaging enable fully automatic component placement of the 90° (horizontal) and 180° (vertical) pin headers. These products are available in the standard open-ended, closed-ended and flanged versions, and mate with any of the female socket connectors of our Minimate and Omnimate Range in the pitch 3.50 mm, 5.00 and 5.08 mm.

Advantages:

- up to 30% reduction of production costs
- stable at 260 °C - compatible for all reflow soldering processes
- Through-Hole-Reflow pins gives 10x greater strength than “Gull Wing” SMT pins
- shorter pins enable double-sided placement
- Tape-on-Reel or Tray packaging for automatic “Pick-and-Place”

Machine oriented packaging “Tape-on-Reel”

The pin headers for the 90° and 180° versions of the SL-SMT 5.00/5.08 are available in “Tape-on-Reel” for automatic component placement.

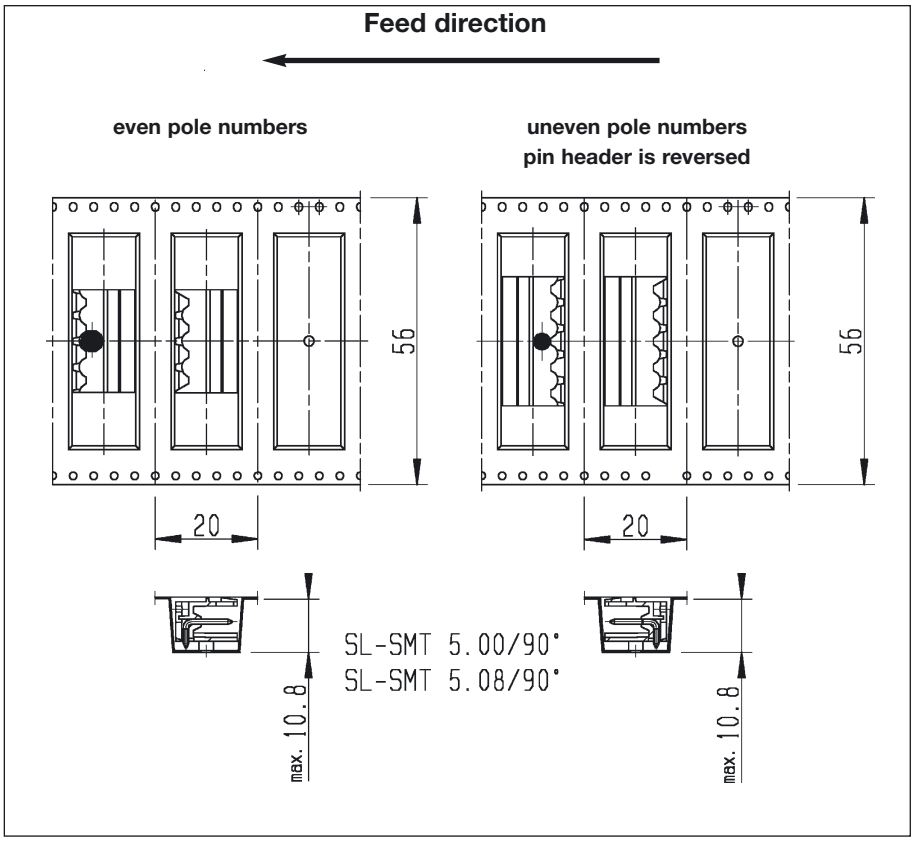
The reels are anti-static, have a diameter of 330 mm, and are designed for all conventionally available feeders.

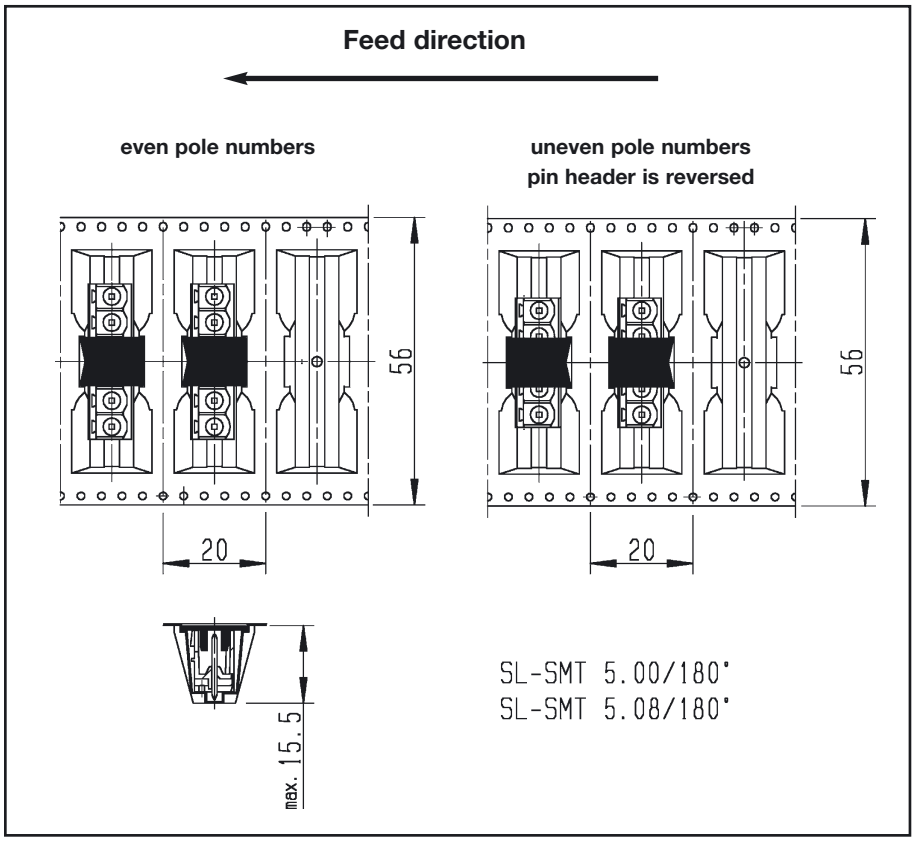
The tapes used conform to the standard IEC 60286-3 and are made of anti-static, black polystyrene. The tape is covered with a protective foil.

A high temperature resistant Pick-and-Place pad is located in the middle of the pin headers for automatic gripping of the straight pin headers SL-SMT 5.00/180° and SL-SMT 5.08/180°. This Pick-and-Place pad is included in the “Tape-on-Reel” packaging.

The angled SL-SMT 5.00/90° and SL-SMT 5.08/90° pin headers are positioned so that no Pick-and-Place pad is needed for automatic gripping.

Reel dimensions and position of pin headers





Machine oriented packaging “Tray”

The optimum positioning points for the vacuum pipette depend on the length of the connectors (open, closed or flange). In the tray drawing, we have marked these points with Start X and Step X for the X axis with reference to the example of an SL-SMT 5.08/12/90 without a flange. The following tables indicates the dimensions for the X and Y axes for the different pole numbers and versions.

The trays are adapted to the pin headers SL-SMT 5.08 and are based on the standard EN 60286-5. The tray material consists of black anti-static polystyrene. For transport, the trays are covered with a transparent foil.

A high temperature resistant Pick-and-Place pad is placed in the middle of the pin header for automatic gripping of the straight pin header SL-SMT 5.08/180° using a vacuum pipette. This pad is included in the tray packaging.

The angled pin header SL-SMT 5.08/90° is conceived to ensure that no Pick-and-Place pad is needed for automatic gripping.

Tray dimensions SL-SMT 5.08/90° and 180° open and closed version

X-values 90°

Poles	Start X/mm[1)]	Step X/mm	Number Step X
–	–	–	–
–	–	–	–
4	24.30	25.40	10
5	26.80	30.48	8
6	29.40	35.56	7
7	31.90	40.64	6
8	34.40	45.72	5
9	37.00	50.80	4
10	39.50	55.88	4
11	42.10	60.96	3
12	44.60	66.04	3
13	47.10	71.12	3
14	49.70	76.20	2
15	52.20	81.28	2
16	54.80	86.36	2
17	57.30	91.44	2
18	59.80	96.52	1
19	62.40	101.60	1
20	64.90	106.68	1
21	67.50	111,76	1
22	70.00	116.84	1
23	72.50	121.92	1
24	75.10	127.00	1

Y-values 90°

Start Y/mm[1)]	Step Y/mm	Number Step Y
20.30	20.00	5

X-values 180°

Poles	Start X/mm[1)]	Step X/mm	Number Step X
–	–	–	–
–	–	–	–
4	19.80	25.40	10
5	22.30	30.48	8
6	24.80	35.56	7
7	27.40	40.64	6
8	29.90	45.72	5
9	32.50	50.80	4
10	35.00	55.88	4
11	37.50	60.96	3
12	40.10	66.04	3
13	42.60	71.12	3
14	45.20	76.20	2
15	47.70	81.28	2
16	50.20	86.36	2
17	52.80	91.44	2
18	55.30	96.52	1
19	57.90	101.60	1
20	60.40	106.68	1
21	62.90	111.76	1
22	65.50	116.84	1
23	68.00	121.92	1
24	70.60	127.00	1

Y-values 180°

Start Y/mm[1)]	Step Y/mm	Number Step Y
18.00	20.00	5

[1)] The start values are only reference values and must be re-checked when automatic placement machine is set-up!

Tray dimensions SL-SMT 5.08/90° and 180° flange version

X-values 90°

Poles	Start X/mm[1)]	Step X/mm	Number Step X
2	24.30	25.40	10
3	26.80	30.48	8
4	29.40	35.56	7
5	31.90	40.64	6
6	34.40	45.72	5
7	37.00	50.80	4
8	39.50	55.88	4
9	42.10	60.96	3
10	44.60	66.04	3
11	47.10	71.12	3
12	49.70	76.20	2
13	52.20	81.28	2
14	54.80	86.36	2
15	57.30	91.44	2
16	59.80	96.52	1
17	62.40	101.60	1
18	64.90	106.68	1
19	67.50	111,76	1
20	70.00	116.84	1
21	72.50	121.92	1
22	75.10	127.00	1
23	77.60	132.08	1
24	80.20	137.16	1

Y-values 90°

Start Y/mm[1)]	Step Y/mm	Number Step Y
20.30	20.00	5

X-values 180°

Poles	Start X/mm[1)]	Step X/mm	Number Step X
2	19.80	25.40	10
3	22.30	30.48	8
4	24.80	35.56	7
5	27.40	40.64	6
6	29.90	45.72	5
7	32.50	50.80	4
8	35.00	55.88	4
9	37.50	60.96	3
10	40.10	66.04	3
11	42.60	71.12	3
12	45.20	76.20	2
13	47.70	81.28	2
14	50.20	86.36	2
15	52.80	91.44	2
16	55.30	96.52	1
17	57.90	101.60	1
18	60.40	106.68	1
19	62.90	111.76	1
20	65.50	116.84	1
21	68.00	121.92	1
22	70.60	127.00	1
23	73.10	132.08	1
24	75.60	137.16	1

Y-values 180°

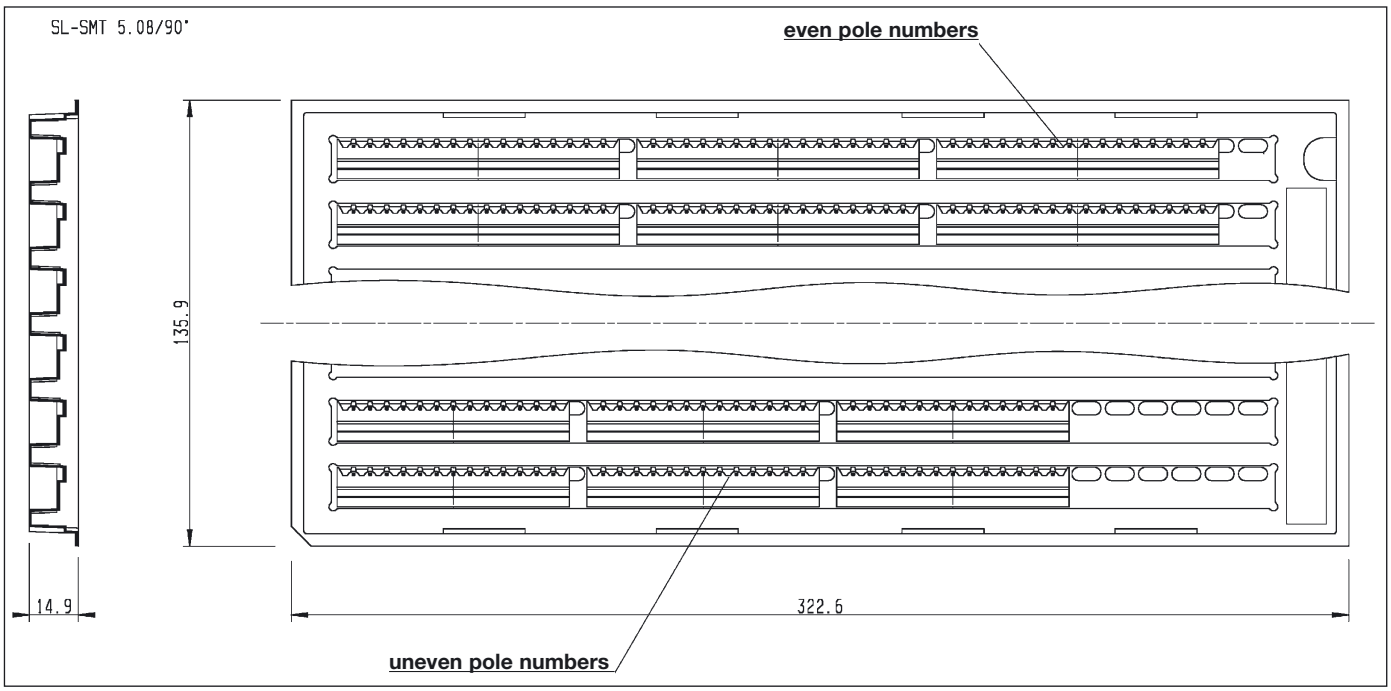
Start Y/mm[1)]	Step Y/mm	Number Step Y
18.00	20.00	5

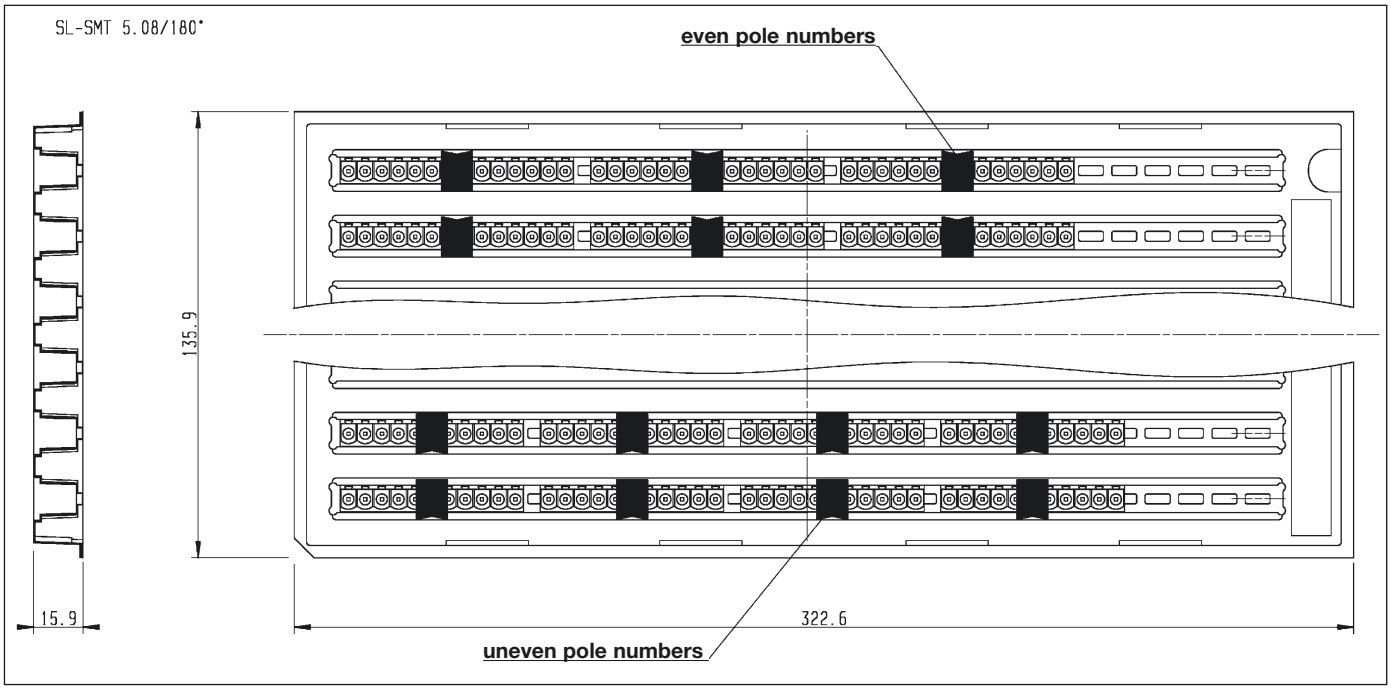
[1)] The start values are only reference values and must be re-checked when automatic placement machine is set-up!

Machine oriented packaging

“Tray”

Tray dimensions and position of pin headers SL-SMT 5.08





User preparation of the SL-SMT 5.08 in the “Tray”

For user preparation of the SL-SMT 5.08 in the “Tray”, we also offer all components separately.

Empty tray

Type	Description	Cat. No.	Qty.
Tray SL-SMT 5.08/90	for SL-SMT 5.08/4…24/90, SL-SMT 5.08/4…24/90G and SL-SMT 5.08/2…24/90LF	**1774640000**	1
Tray SL-SMT 5.08/180	for SL-SMT 5.08/4…24/180 , SL-SMT 5.08/4…24/180G and SL-SMT 5.08/2…24/180LF	**1774650000**	1
PPP-SL-SMT 5.08/180	Pick-and-Place-Pad for SL-SMT 5.08/2…24/180 (open, closed and flange version)	**1774680000**	100

Application notes

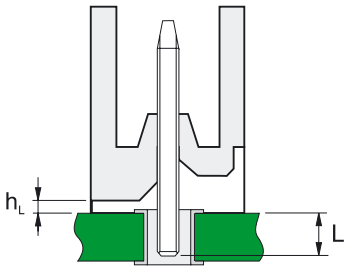
To garantuee the best soldering result in the reflow processes the required paste volume and paste filling level must be optimized for the paste printing process.

We recommend a calculation of paste volume as follows:

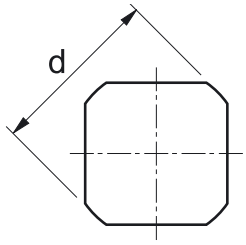
Solder paste volume:

Recommended for optimized solder fill, solder joint shape and tolerances according to IPC-A610B.

pin header type: open, closed ended: solder flange LF:	Poles 2 up to 8 –	Poles 9 up to 24 Poles 2 up to 24
recommended inside diameter finished hole *1) :	$\mathbf{d_I}$ = $1.4^{+0,1}$ mm	$\mathbf{d_I}$ = $1.5^{+0,1}$ mm
	paste volume $\mathbf{V_P}$ [mm^3] / filling level $\mathbf{f_P}$ [%] after print	
minimal solder joint shape optimal solder joint shape	2.4 mm^3 / 70 % 2.9 mm^3 / 90 %	3.1 mm^3 / 85 % 3.5 mm^3 / 100 %



pin header parameter



pin cross-section

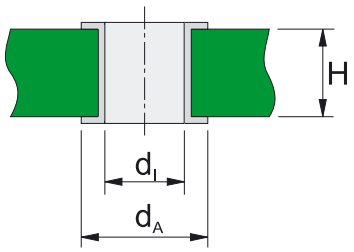
Valid for all types of SL-SMT with following parameters:

Pin headers:

Pin length	= **L**	[mm]	= $1.5^{-0.3}$
Stand-off heigth	= $\mathbf{h_L}$	[mm]	= min. 0.3
Pin diameter	= **d**	[mm]	= 1.2

Printed circuit board (PCB):

Board thickness	= **H**	[mm]	= 1.6
Type of hole			= plated through hole
Inside diameter finished hole	= $\mathbf{d_I}$	[mm]	= see table *1)
Outside diameter solder eyelet	= $\mathbf{d_A}$	[mm]	= 2.3
Tolerances according to IEC 326-3			= very fine



PCB parameter

Template:

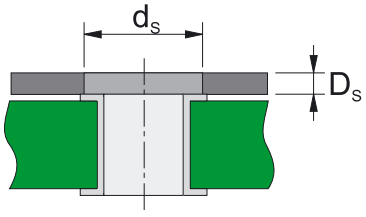
Template thickness	= $\mathbf{D_S}$	[µm]	= 120 – 180
Template aperture diameter	= $\mathbf{d_S}$	[mm]	= 2.1 *2)

Solder paste:

Solder paste grain		[µm]	= 20 - 40 = type 3
Evaporation volume of the solder paste		[%]	= approx. 50

Process:

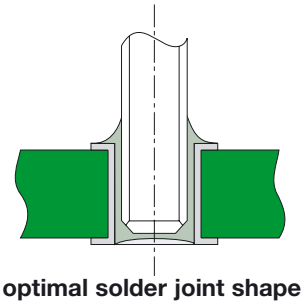
Paste applying process			= single template print
Paste filling level of the finished hole	= $\mathbf{f_P}$	[%]	= see table
Assembly processing			= automatic Pick-and-Place
Temperature profile			= standard, according to EN 61760-1



template parameter

*1) Tolerances of component, PCB and placement machine must be observed: recommended diameter for 9 to 24 poles and types with solder flange LF: $\mathbf{d_I}$ = $1.5^{+0.1}$ mm

*2) Template aperture diameter about 10% smaller then Outside diameter of solder eyelet $\mathbf{d_A}$



optimal solder joint shape

Additional information and application notes can be given on request, or found on our website: www.weidmueller.com