

Omnimate Range - Pitch 3.50 mm

The **Omnimate Range** offers a free choice of the connecting technique. Everything is possible with the socket blocks and pin plugs: leaf spring, clamping yoke, tension clamp, TOP, crimp, and IDC connections.

This versatility brings substantial benefits: You design your printed circuit board with a 3.5/5/7mm pitch component and are able to combine different field connections with it – as it is required by end customers and market.

The comprehensive assortment of pin headers and socket blocks, the multitude of different angles between pcb, connectors and conductors in the field, and the large selection of accessories permit the **Omnimate Range** to be used in a variety of applications.

For example: motor control, free wiring of initiators and actuators, in interface elements or in power supply units.

Product features overview:

- free selection of the connecting technique
- easy to use
- end-to-end stacking without loss of pitch
- thermoplastic polyester (PBT), or Liquid Crystal Polymer (LCP) is used as insulation material that is flame-resistant according to UL 94 V-0
- large selection of accessories

Our standard socket blocks in **3.50 mm pitch** are available with clamping yoke (screw clamp) tension clamp, IDC (Insulation Displacement Connection), and with the innovative spring connection technique that is used in our new Sensor/Actuator socket block **BL I/O 3.5**.

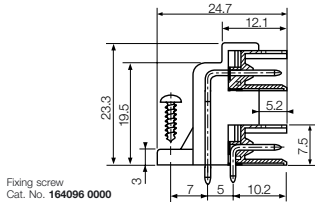
The socket blocks can be combined with all single and double-level pin headers with conductor angle of 90°, 110°, 135° and 180°. And, of course, with our innovative **SL-SMT 3.5 pin headers** (Through-Hole-Reflow).

3.50 mm pitch:

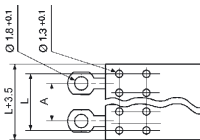
- all pin headers and socket blocks can be combined as required
- high connection density: approximately 30% more connections compared to 5.00/5.08 mm pitch
- optimum adaptation to the installation dimensions of standardized plug-in modules
- voltages up to 160 V, currents up to 12 A, conductor cross-sections up to 1.5 mm²



Pin headers SLD 3.5/90



Fixing screw
Cat. No. 164096 0000

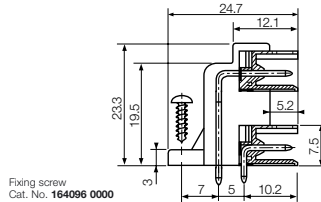


$L = (n/2 - 1) \times 3.5$
A = see page 239

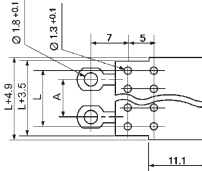
Technical Data	VDE	UL	CSA
Rated voltage	V	160*	300
Rated current	A	8	10

*Overvoltage category III / Pollution severity 3
Additional technical data see page 212

Pin headers SLD 3.5/90G



Fixing screw
Cat. No. 164096 0000

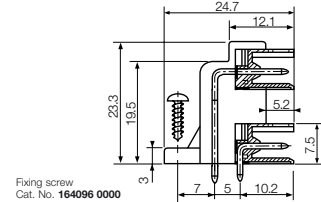


$L = (n/2 - 1) \times 3.5$
A = see page 239

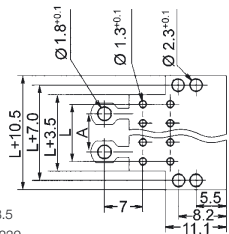
Technical Data	VDE	UL	CSA
Rated voltage	V	160*	300
Rated current	A	8	10

*Overvoltage category III / Pollution severity 3
Additional technical data see page 212

Pin headers SLD 3.5/90F



Fixing screw
Cat. No. 164096 0000



$L = (n/2 - 1) \times 3.5$
A = see page 239

Technical Data	VDE	UL	CSA
Rated voltage	V	160*	300
Rated current	A	8	10

*Overvoltage category III / Pollution severity 3
Additional technical data see page 212

Solder pin length

3.2 mm

4.5 mm

Colour

Poles	Type	Cat. No.	Cat. No.	Qty.
4	SLD 3.5/4/90	1633350000	1634040000	50
6	SLD 3.5/6/90	1633360000	1634050000	50
8	SLD 3.5/8/90	1633370000	1634060000	50
10	SLD 3.5/10/90	1633380000	1634070000	50
12	SLD 3.5/12/90	1633390000	1634080000	50
14	SLD 3.5/14/90	1633400000	1634090000	20
16	SLD 3.5/16/90	1633410000	1634100000	20
18	SLD 3.5/18/90	1633420000	1634110000	20
20	SLD 3.5/20/90	1633430000	1634120000	20
22	SLD 3.5/22/90	1633440000	1634130000	10
24	SLD 3.5/24/90	1633450000	1634140000	10
26	SLD 3.5/26/90	1633460000	1634150000	10
28	SLD 3.5/28/90	1633470000	1634160000	10
30	SLD 3.5/30/90	1633480000	1634170000	10
32	SLD 3.5/32/90	1633490000	1634180000	10
34	SLD 3.5/34/90	1633500000	1634190000	10
36	SLD 3.5/36/90	1633510000	1634200000	10
38	SLD 3.5/38/90	1633520000	1634210000	10
40	SLD 3.5/40/90	1633530000	1634220000	10
42	SLD 3.5/42/90	1633540000	1634230000	10
44	SLD 3.5/44/90	1633550000	1634240000	10
46	SLD 3.5/46/90	1633560000	1634250000	10
48	SLD 3.5/48/90	1633570000	1634260000	10

Solder pin length

3.2 mm

4.5 mm

Colour

Poles	Type	Cat. No.	Cat. No.	Qty.
4	SLD 3.5/4/90G	1633580000	1634270000	50
6	SLD 3.5/6/90G	1633590000	1634280000	50
8	SLD 3.5/8/90G	1633600000	1634290000	50
10	SLD 3.5/10/90G	1633610000	1634300000	50
12	SLD 3.5/12/90G	1633620000	1634310000	50
14	SLD 3.5/14/90G	1633630000	1634320000	20
16	SLD 3.5/16/90G	1633640000	1634330000	20
18	SLD 3.5/18/90G	1633650000	1634340000	20
20	SLD 3.5/20/90G	1633660000	1634350000	20
22	SLD 3.5/22/90G	1633670000	1634360000	10
24	SLD 3.5/24/90G	1633680000	1634370000	10
26	SLD 3.5/26/90G	1633690000	1634380000	10
28	SLD 3.5/28/90G	1633700000	1634390000	10
30	SLD 3.5/30/90G	1633710000	1634400000	10
32	SLD 3.5/32/90G	1633720000	1634410000	10
34	SLD 3.5/34/90G	1633730000	1634420000	10
36	SLD 3.5/36/90G	1633740000	1634430000	10
38	SLD 3.5/38/90G	1633750000	1634440000	10
40	SLD 3.5/40/90G	1633760000	1634450000	10
42	SLD 3.5/42/90G	1633770000	1634460000	10
44	SLD 3.5/44/90G	1633780000	1634470000	10
46	SLD 3.5/46/90G	1633790000	1634480000	10
48	SLD 3.5/48/90G	1633800000	1634490000	10

Solder pin length

3.2 mm

4.5 mm

Colour

Poles	Type	Cat. No.	Cat. No.	Qty.
4	SLD 3.5/4/90F	1633810000	1634500000	50
6	SLD 3.5/6/90F	1633820000	1634510000	50
8	SLD 3.5/8/90F	1633830000	1634520000	50
10	SLD 3.5/10/90F	1633840000	1634530000	50
12	SLD 3.5/12/90F	1633850000	1634540000	50
14	SLD 3.5/14/90F	1633860000	1634550000	20
16	SLD 3.5/16/90F	1633870000	1634560000	20
18	SLD 3.5/18/90F	1633880000	1634570000	20
20	SLD 3.5/20/90F	1633890000	1634580000	20
22	SLD 3.5/22/90F	1633900000	1634590000	10
24	SLD 3.5/24/90F	1633910000	1634600000	10
26	SLD 3.5/26/90F	1633920000	1634610000	10
28	SLD 3.5/28/90F	1633930000	1634620000	10
30	SLD 3.5/30/90F	1633940000	1634630000	10
32	SLD 3.5/32/90F	1633950000	1634640000	10
34	SLD 3.5/34/90F	1633960000	1634650000	10
36	SLD 3.5/36/90F	1633970000	1634660000	10
38	SLD 3.5/38/90F	1633980000	1634670000	10
40	SLD 3.5/40/90F	1633990000	1634680000	10
42	SLD 3.5/42/90F	1634000000	1634690000	10
44	SLD 3.5/44/90F	1634010000	1634700000	10
46	SLD 3.5/46/90F	1634020000	1634710000	10
48	SLD 3.5/48/90F	1634030000	1634720000	10

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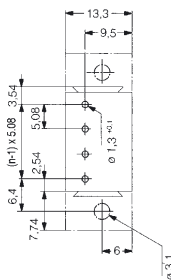
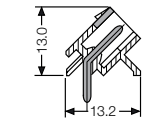
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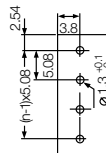
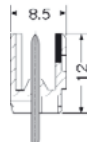
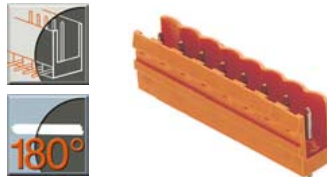
Pin headers SL 5.08/135B



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	12	10	10

*Overvoltage category III / Pollution severity 3
Additional technical data see page 216

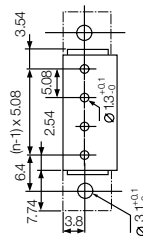
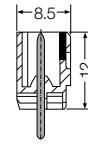
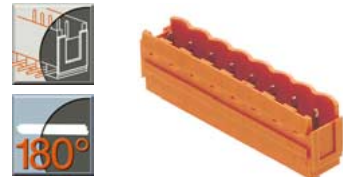
Pin headers SL 5.08/180



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	12	10	10

*Overvoltage category III / Pollution severity 3
Additional technical data see page 216

Pin headers SL 5.08/180B



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	12	10	10

*Overvoltage category III / Pollution severity 3
Additional technical data see page 216

Solder pin length		3.2 mm	4.5 mm		
Colour		●	●		
Poles	Type	Cat. No.	Cat. No.	Qty.	
2	SL 5.08/2/135B	1605530000	1635500000	100	
3	SL 5.08/3/135B	1605540000	1635510000	100	
4	SL 5.08/4/135B	1605550000	1635520000	100	
5	SL 5.08/5/135B	1605560000	1635530000	50	
6	SL 5.08/6/135B	1605570000	1635540000	50	
7	SL 5.08/7/135B	1605580000	1635550000	50	
8	SL 5.08/8/135B	1605590000	1635560000	50	
9	SL 5.08/9/135B	1605600000	1635570000	50	
10	SL 5.08/10/135B	1605610000	1635580000	50	
11	SL 5.08/11/135B	1605620000	1635590000	50	
12	SL 5.08/12/135B	1605630000	1635600000	50	
13	SL 5.08/13/135B	1605640000	1635610000	50	
14	SL 5.08/14/135B	1605650000	1635620000	50	
15	SL 5.08/15/135B	1605660000	1635630000	50	
16	SL 5.08/16/135B	1605670000	1635640000	50	
17	SL 5.08/17/135B	1605680000	1635650000	20	
18	SL 5.08/18/135B	1605690000	1635660000	20	
19	SL 5.08/19/135B	1605700000	1635670000	20	
20	SL 5.08/20/135B	1605710000	1635680000	20	
21	SL 5.08/21/135B	1605720000	1635690000	20	
22	SL 5.08/22/135B	1605730000	1635700000	20	
23	SL 5.08/23/135B	1605740000	1635710000	20	
24	SL 5.08/24/135B	1605750000	1635720000	20	

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Solder pin length		3.2 mm	4.5 mm		
Colour		●	●		
Poles	Type	Cat. No.	Cat. No.	Qty.	
2	SL 5.08/2/180	1517260000	1521810000	100	
3	SL 5.08/3/180	1517360000	1521910000	100	
4	SL 5.08/4/180	1517460000	1522010000	100	
5	SL 5.08/5/180	1517560000	1522110000	50	
6	SL 5.08/6/180	1517660000	1522210000	50	
7	SL 5.08/7/180	1517760000	1522310000	50	
8	SL 5.08/8/180	1517860000	1522410000	50	
9	SL 5.08/9/180	1517960000	1522510000	50	
10	SL 5.08/10/180	1518060000	1522610000	50	
11	SL 5.08/11/180	1518160000	1522710000	50	
12	SL 5.08/12/180	1518260000	1522810000	50	
13	SL 5.08/13/180	1518360000	1522910000	50	
14	SL 5.08/14/180	1518460000	1523010000	50	
15	SL 5.08/15/180	1518560000	1523110000	50	
16	SL 5.08/16/180	1518660000	1523210000	50	
17	SL 5.08/17/180	1518760000	1523310000	20	
18	SL 5.08/18/180	1518860000	1523410000	20	
19	SL 5.08/19/180	1518960000	1523510000	20	
20	SL 5.08/20/180	1519060000	1523610000	20	
21	SL 5.08/21/180	1519160000	1523710000	20	
22	SL 5.08/22/180	1519260000	1523810000	20	
23	SL 5.08/23/180	1519360000	1523910000	20	
24	SL 5.08/24/180	1519460000	1524010000	20	

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Solder pin length		3.2 mm	4.5 mm		
Colour		●	●		
Poles	Type	Cat. No.	Cat. No.	Qty.	
2	SL 5.08/2/180B	1519560000	1524110000	100	
3	SL 5.08/3/180B	1519660000	1524210000	100	
4	SL 5.08/4/180B	1519760000	1524310000	100	
5	SL 5.08/5/180B	1519860000	1524410000	50	
6	SL 5.08/6/180B	1519960000	1524510000	50	
7	SL 5.08/7/180B	1520060000	1524610000	50	
8	SL 5.08/8/180B	1520160000	1524710000	50	
9	SL 5.08/9/180B	1520260000	1524810000	50	
10	SL 5.08/10/180B	1520360000	1524910000	50	
11	SL 5.08/11/180B	1520460000	1525010000	50	
12	SL 5.08/12/180B	1520560000	1525110000	50	
13	SL 5.08/13/180B	1520660000	1525210000	50	
14	SL 5.08/14/180B	1520760000	1525310000	50	
15	SL 5.08/15/180B	1520860000	1525410000	50	
16	SL 5.08/16/180B	1520960000	1525510000	50	
17	SL 5.08/17/180B	1521060000	1525610000	20	
18	SL 5.08/18/180B	1521160000	1525710000	20	
19	SL 5.08/19/180B	1521260000	1525810000	20	
20	SL 5.08/20/180B	1521360000	1525910000	20	
21	SL 5.08/21/180B	1521460000	1526010000	20	
22	SL 5.08/22/180B	1521560000	1526110000	20	
23	SL 5.08/23/180B	1521660000	1526210000	20	
24	SL 5.08/24/180B	1521760000	1526310000	20	

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