

Connectors of metric design

System overview

- **BL 3.5/SL 3.5 (Pitch 3.5 mm)**
- **BLZ 5.00/SL 5.00 (Pitch 5.00 mm)**
- **BLZ 7.50/SL 7.50 (Pitch 7.50 mm)**

The metric printed circuit board connector system is a logical further development of the numerous systems with an imperial pitch currently in widespread use. Metric connectors are being used more and more in industry and are proving to be the standard.

New DIN standards. Such as DIN 43356 "Metric design. 25 mm multi-module" for example, require specially adapted connectors. This standard was taken into special consideration in the BL 3.5/SL 3.5 connector system. With its 3.5 mm pitch, this printed circuit board connector system is also the smallest system with a screw connection.

The BL 3.5/SL 3.5 system is complemented by the new BLZ 5.00/SL 5.00 and BLZ 7.50/SL 7.50. Both system are based on the new M 2.5 clamping yoke system and offer a wire range up to 2.5 mm² for both solid and flexible conductors (also with ferrule).

The systems are characterised by

- Space-saving design
- Conical cable entry
- Clear marking surface
- Coding in the PCB grid without pole loss
- Stackable in rows in the PCB grid
- Low mating and unmating force

The PBT plastic housings are

- Flame-resistant to UL 94 (V0)
- Durable and
- Accurately pitched

The following metal parts are used

- Octagonal pin contact
- The Weidmüller clamping yoke system
- The Weidmüller double spring contact

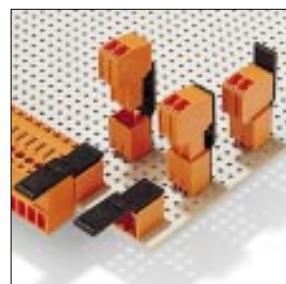
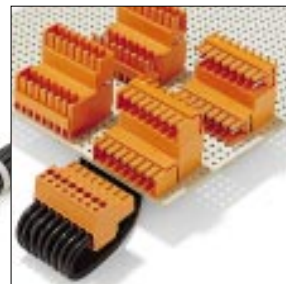
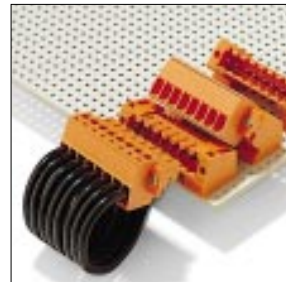
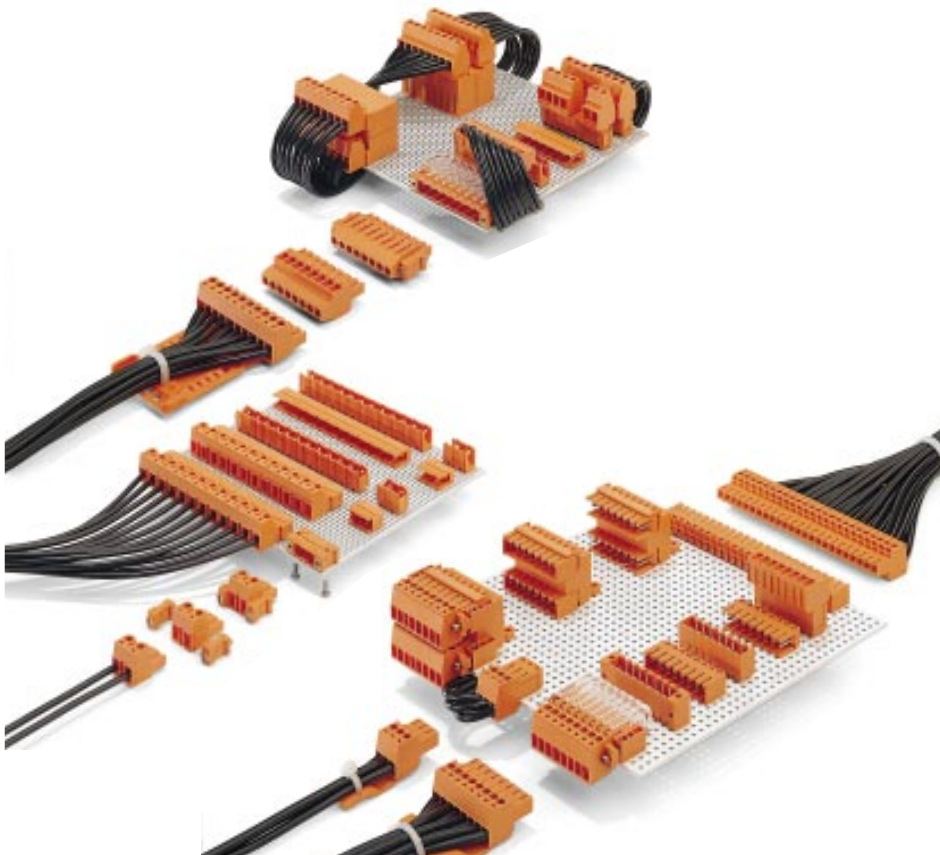
Plug face BL 3.5



Plug face BLZ 5.00



Plug face BLZ 7.50



Note:

Products from the BL 3.5 /SL 3.5 series must only be assembled when not live. If it is necessary to assemble while carrying a low power, please ask us for values that we have ascertained through experience. The PCB connectors comply with DIN VDE 0627.

When mounting PCB's 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 for the respective application as specified in VDE 0110. The current-carrying capacity of PCB's is to be determined according to DIN IEC 326 Part 3.

Connectors of metric design

BL3.5/SL 3.5, BLZ 5.00/SL 5.00 and BLZ 7.50/SL 7.50

Technical data/derating curves

Technical data

Material data	BL 3.5/SL 3.5	BLZ 5.00/SL 5.00	BLZ 7.50/SL 7.50
Insulation	PBT	PBT	PBT
Colour	orange ¹⁾	orange ¹⁾	orange ¹⁾
Temperature range	-20...+100 °C	-20...+100 °C	-20...+100 °C
Flammability class	UL 94 (V0)	UL 94 (V0)	UL 94 (V0)
Basic contact material	CuSn	CuSn	CuSn
Contact plating	tin-plated ²⁾	tin-plated ²⁾	tin-plated ²⁾
Characteristic system values			
Pitch	3.5 mm	5.00 mm	7.50 mm
Clearance	≥ 1.6 mm	≥ 2.5 mm	≥ 4.5 mm
Creepage path	≥ 3.2 mm	≥ 4.0 mm	≥ 8.0 mm
Creepage path	yes	yes	yes
Polarisation	Screw conn./solder conn.	Screw conn./solder conn.	Screw conn./solder conn.
Connection method	3.2/4.5 mm	3.2/4.5 mm	3.2/4.5 mm
Solder pin length	∅ 1.3 + 0.1 mm	∅ 1.3 + 0.1 mm	∅ 1.3 + 0.1 mm
PCB mounting hole	7 mm	7 mm	7 mm
Insulation stripping length	M 2 ⁷⁾	M 2.5	M 2.5
Clamping screw	≥ 10 ⁵ MΩ	≥ 10 ⁵ MΩ	≥ 10 ⁵ MΩ
Insulation resistance	≤ 4.2 mΩ	≤ 5.0 mΩ	≤ 5.0 mΩ
Through resistance			
Connectable conductors			
Clamping range	0.08...1.5 mm ²	0.08...2.5 mm ²	0.08...2.5 mm ²
,e* solid H07 V-U	0.5...1.5 mm ²	0.5...2.5 mm ²	0.5...2.5 mm ²
,f* flexible	0.5...1.5 mm ²	0.5...2.5 mm ²	0.5...2.5 mm ²
,f* with ferrules			
to DIN 46228, T.1 u. T.2 ⁶⁾	0.5...1.5 mm ²	0.5...2.5 mm ²	0.5...2.5 mm ²
with plastic collar		0.5...1.5 mm ²	0.5...1.5 mm ²
Conductor size	28...16 AWG	28...14 AWG	28...14 AWG
Gauge pin to			
EN 60947-1/10.91	Size A1	A3	A3
Insulation diameter	≤ 2.9 mm		
VDE rated data			
Rated cross-section	1.5 mm ²	2.5 mm ²	2.5 mm ²
Rated current	12 A ³⁾	12 A ³⁾	15 A ³⁾
Current-carrying capacity	see derating curves ⁴⁾	see derating curves ⁴⁾	see derating curves ⁴⁾
Reference voltage	125 V- / 150 V-, group C	250 V- / 300 V-, group C	500 V- / 600 V-, group C
(to VDE 0110b 2.79)	250 V- / 300 V-, group B	380 V- / 450 V-, group B	750 V- / 900 V-, group B
Test voltage	1.25 kV-	2.0 kV-	3.0 kV-
Test torque	0.25 Nm	0.5 Nm	0.5 Nm
UL rated data			
Conductor size	22...14 AWG	22...12 AWG	22...12 AWG
Rated current	10 A	10 A	10 A
Rated voltage, industrial	300 V-	300 V-	300 V-
Tightening torque			
Manual screwdriver			
Type SD/SDI	0.25 Nm ⁷⁾	0.5 Nm	0.5 Nm
Electric screwdriver DMS 2		Level 2	Level 2
Approvals			
	List on request	List on request	List on request

¹⁾ Other colours on request

²⁾ Gold-plated on request

³⁾ Based on 20°C ambient temperature, rated cross-section and maximum pole number

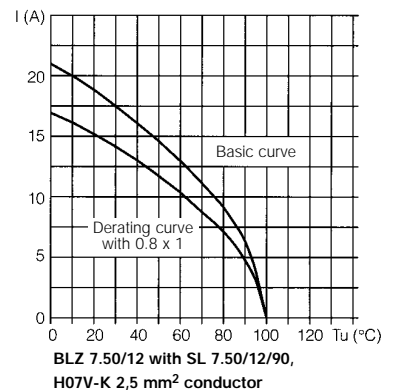
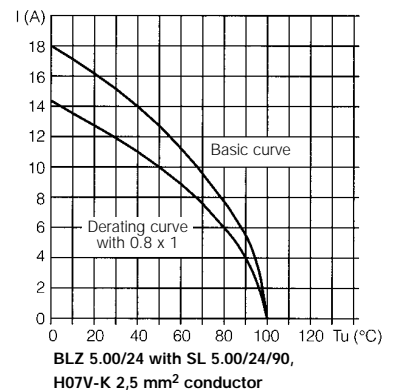
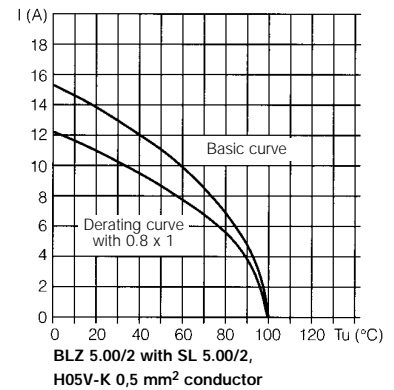
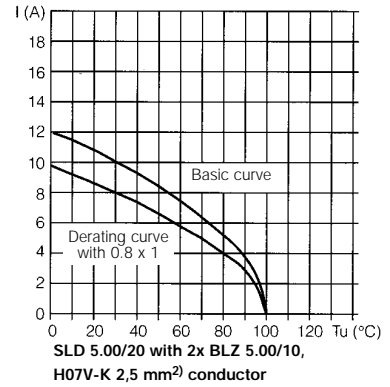
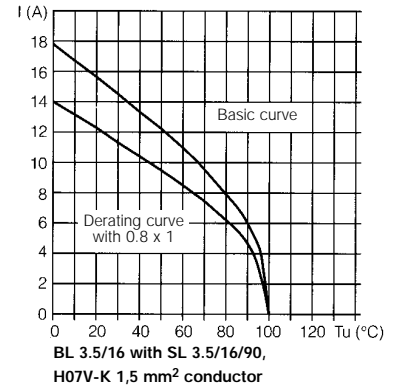
⁴⁾ Additional derating curves on request

⁵⁾ UL approval applied for with this data

⁶⁾ For 3.5 mm pitch, only form A or C

⁷⁾ Not defined in VDE specifications

⁸⁾ For SLD 5.00 R20 a reduced current-carrying capacity applies analogous SLD 5.08 R20 (see page 5/91)



Connectors of metric design

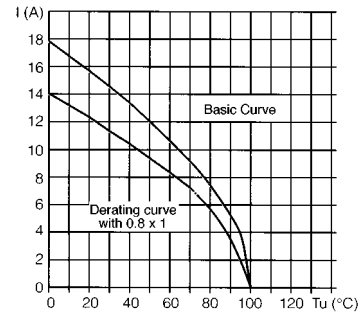
Technical data/derating curves

Technical data

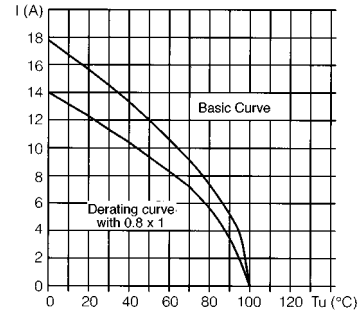
Material data	SL 3.5 /110, 135	SLD 3.5 V/90, 180	SL 5.00/135
Insulation	PBT	PBT	PBT
Colour	orange ¹⁾	orange ¹⁾	orange ¹⁾
Temperature range	-20...+100 °C	-20...+100 °C	-20...+100 °C
Flammability class	UL 94 (V0)	UL 94 (V0)	UL 94 (V0)
Basic contact material	CuSn	CuSn	CuSn
Contact plating	tin-plated ²⁾	tin-plated	tin-plated ²⁾
Characteristic system values			
Pitch	3.5 mm	3.5 mm	5.00 mm
Clearance	≥ 1.6 mm	≥ 1.6 mm	≥ 2.5 mm
Creepage path	≥ 3.2 mm	≥ 3.2 mm	≥ 4.0 mm
Creepage path	yes	yes	yes
Polarisation	Solder connection	Solder connection	Solder connection
Connection method	3.2/4.5 mm	3.2/4.5 mm	3.2/4.5 mm
Solder pin length	Ø 1.3 + 0.1 mm	Ø 1.3 + 0.1 mm	Ø 1.3 + 0.1 mm
PCB mounting hole	Ø 2.4 + 0.1 mm ³⁾	Ø 2.4 + 0.1 mm ³⁾	Ø 2.2 + 0.1 mm ³⁾
Mounting hole	≥ 10 ⁵ MΩ	≥ 10 ⁵ MΩ	≥ 10 ⁵ MΩ
Insulation resistance	≤ 5.0 mΩ	≤ 5.0 mΩ	≤ 5.0 mΩ
Through resistance			
VDE rated data			
Rated cross-section	-	-	-
Rated current	12 A ⁴⁾	8 A ⁴⁾⁵⁾	12 A ⁴⁾
Current-carrying capacity	see derating curves ⁶⁾	see derating curves ⁶⁾	see derating curves ⁶⁾
Reference voltage	125 V- / 150 V-, group C	125 V- / 150 V-, group C	250 V- / 300 V-, group C
(to VDE 0110b 2.79)	250 V- / 200 V-, group B	250 V- / 300 V-, group B	380 V- / 450 V-, group B
Test voltage	1.25 kV-	1.25 kV-	2.0 kV-
Test torque	-	-	-
UL rated data			
Conductor size	-	-	-
Rated current	10 A	5 A	10 A
Rated voltage, industrial	300 V-	300 V-	300 V-
Approvals			
	List on request	List on request	List on request

All pin headers with lateral flanges contain retaining nuts

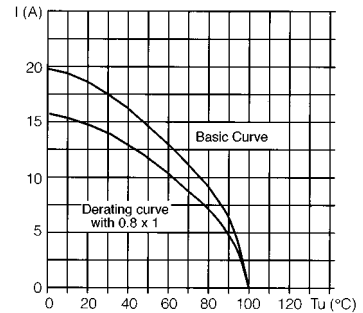
- 1) Other colours on request
- 2) Gold-plated on request
- 3) to attach the pin strip by screws to the board "strain relief on soldering site"
- 4) Based on 20°C ambient temperature maximum number of poles
- 5) when upper level is under lower load, the lower level can take higher loading
- 6) Additional derating curves on request



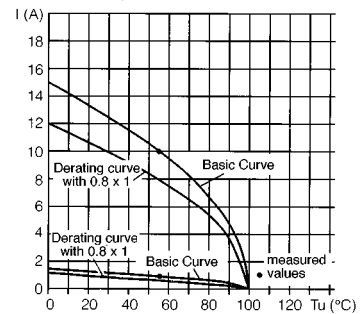
BL 3.5/24 with SL 3.5/24/110, H07V-K 1.5 mm² conductor



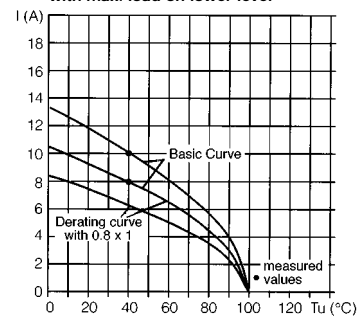
BL 3.5/24 with SL 3.5/24/135, conductor H07V-K 1.5 mm²



BL 5.00/24 with SL 5.00/24/135, H07V-K 2.5 mm² conductor



BL 3.5/24 with SLD 3.5 V/48/90, H07V-K 1.5 mm² conductor with max. load on lower level



BL 3.5/24 with SLD 3.5 V/48/90, H07V-K 1.5 mm² conductor with max. load on upper level
SLD 3.5 V + SLD 3.5
Maximum current loading in upper and lower levels of twin level pin strip

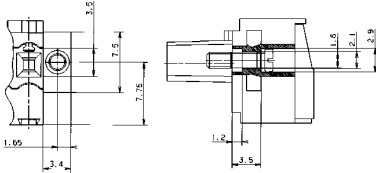
upper level	1.0 A	2.1 A	3.1 A	4.0 A	4.9 A	5.8 A	6.6 A	7.2 A
lower level	10.5 A	10.5 A	10.4 A	10.2 A	9.9 A	9.7 A	9.4 A	9.1 A

BL 3.5 socket blocks

with screw connection
tin-plated version



F version



BL 3.5/2 ... 24

No. poles	Type	Cat. No.	Qty.
2	BL 3.5/2 SN OR	159736	100
3	BL 3.5/3 SN OR	159737	100
4	BL 3.5/4 SN OR	159738	100
5	BL 3.5/5 SN OR	159739	50
6	BL 3.5/6 SN OR	159740	50
7	BL 3.5/7 SN OR	159741	50
8	BL 3.5/8 SN OR	159742	50
9	BL 3.5/9 SN OR	159743	50
10	BL 3.5/10 SN OR	159744	50
11	BL 3.5/11 SN OR	159745	50
12	BL 3.5/12 SN OR	159746	50
13	BL 3.5/13 SN OR	159747	50
14	BL 3.5/14 SN OR	159748	50
15	BL 3.5/15 SN OR	159749	50
16	BL 3.5/16 SN OR	159750	50
17	BL 3.5/17 SN OR	162029	20
18	BL 3.5/18 SN OR	162030	20
19	BL 3.5/19 SN OR	162031	20
20	BL 3.5/20 SN OR	162032	20
21	BL 3.5/21 SN OR	162033	20
22	BL 3.5/22 SN OR	162034	20
23	BL 3.5/23 SN OR	162035	20
24	BL 3.5/24 SN OR	162036	20

BL 3.5/2 ... 24F

Socket blocks with flange

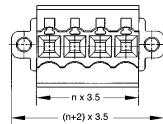
No. poles	Type	Cat. No.	Qty.
2	BL 3.5/2F SN OR	160664	100
3	BL 3.5/3F SN OR	160665	100
4	BL 3.5/4F SN OR	160666	100
5	BL 3.5/5F SN OR	160667	50
6	BL 3.5/6F SN OR	160668	50
7	BL 3.5/7F SN OR	160669	50
8	BL 3.5/8F SN OR	160670	50
9	BL 3.5/9F SN OR	160671	50
10	BL 3.5/10F SN OR	160672	50
11	BL 3.5/11F SN OR	160673	50
12	BL 3.5/12F SN OR	160674	50
13	BL 3.5/13F SN OR	160675	50
14	BL 3.5/14F SN OR	160676	50
15	BL 3.5/15F SN OR	160677	50
16	BL 3.5/16F SN OR	160678	50
17	BL 3.5/17F SN OR	162076	20
18	BL 3.5/18F SN OR	162077	20
19	BL 3.5/19F SN OR	162078	20
20	BL 3.5/20F SN OR	162079	20
21	BL 3.5/21F SN OR	162080	20
22	BL 3.5/22F SN OR	162081	20
23	BL 3.5/23F SN OR	162082	20
24	BL 3.5/24F SN OR	162083	20

BL 3.5/270 socket blocks

with screw connection
tin-plated version



F version



BL 3.5/2 ... 24/270

No. poles	Type	Cat. No.	Qty.
2	BL 3.5/2 270 SN OR	163947	100
3	BL 3.5/3 270 SN OR	163948	100
4	BL 3.5/4 270 SN OR	163949	100
5	BL 3.5/5 270 SN OR	163950	50
6	BL 3.5/6 270 SN OR	163951	50
7	BL 3.5/7 270 SN OR	163952	50
8	BL 3.5/8 270 SN OR	163953	50
9	BL 3.5/9 270 SN OR	163954	50
10	BL 3.5/10 270 SN OR	163955	50
11	BL 3.5/11 270 SN OR	163956	50
12	BL 3.5/12 270 SN OR	163957	50
13	BL 3.5/13 270 SN OR	163958	50
14	BL 3.5/14 270 SN OR	163959	50
15	BL 3.5/15 270 SN OR	163960	50
16	BL 3.5/16 270 SN OR	163961	50
17	BL 3.5/17 270 SN OR	163962	20
18	BL 3.5/18 270 SN OR	163963	20
19	BL 3.5/19 270 SN OR	163964	20
20	BL 3.5/20 270 SN OR	163965	20
21	BL 3.5/21 270 SN OR	163966	20
22	BL 3.5/22 270 SN OR	163967	20
23	BL 3.5/23 270 SN OR	163968	20
24	BL 3.5/24 270 SN OR	163969	20

BL 3.5/2 ... 24/270F

Socket blocks with flange

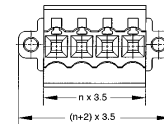
No. poles	Type	Cat. No.	Qty.
2	BL 3.5/2F 270F SN OR	163993	100
3	BL 3.5/3F 270F SN OR	163994	100
4	BL 3.5/4F 270F SN OR	163995	100
5	BL 3.5/5F 270F SN OR	163996	50
6	BL 3.5/6F 270F SN OR	163997	50
7	BL 3.5/7F 270F SN OR	163998	50
8	BL 3.5/8F 270F SN OR	163999	50
9	BL 3.5/9F 270F SN OR	164000	50
10	BL 3.5/10F 270F SN OR	164001	50
11	BL 3.5/11F 270F SN OR	164002	50
12	BL 3.5/12F 270F SN OR	164003	50
13	BL 3.5/13F 270F SN OR	164004	50
14	BL 3.5/14F 270F SN OR	164005	50
15	BL 3.5/15F 270F SN OR	164006	50
16	BL 3.5/16F 270F SN OR	164007	50
17	BL 3.5/17F 270F SN OR	164008	20
18	BL 3.5/18F 270F SN OR	164009	20
19	BL 3.5/19F 270F SN OR	164010	20
20	BL 3.5/20F 270F SN OR	164011	20
21	BL 3.5/21F 270F SN OR	164012	20
22	BL 3.5/22F 270F SN OR	164013	20
23	BL 3.5/23F 270F SN OR	164014	20
24	BL 3.5/24F 270F SN OR	164015	20

BL 3.5/90 socket blocks

with screw connection
tin-plated version



F version



BL 3.5/2 ... 24/90

No. poles	Type	Cat. No.	Qty.
2	BL 3.5/2/90 SN OR	163855	100
3	BL 3.5/3/90 SN OR	163856	100
4	BL 3.5/4/90 SN OR	163857	100
5	BL 3.5/5/90 SN OR	163858	50
6	BL 3.5/6/90 SN OR	163859	50
7	BL 3.5/7/90 SN OR	163860	50
8	BL 3.5/8/90 SN OR	163861	50
9	BL 3.5/9/90 SN OR	163862	50
10	BL 3.5/10/90 SN OR	163863	50
11	BL 3.5/11/90 SN OR	163864	50
12	BL 3.5/12/90 SN OR	163865	50
13	BL 3.5/13/90 SN OR	163866	50
14	BL 3.5/14/90 SN OR	163867	50
15	BL 3.5/15/90 SN OR	163868	50
16	BL 3.5/16/90 SN OR	163869	50
17	BL 3.5/17/90 SN OR	163870	20
18	BL 3.5/18/90 SN OR	163871	20
19	BL 3.5/19/90 SN OR	163872	20
20	BL 3.5/20/90 SN OR	163873	20
21	BL 3.5/21/90 SN OR	163874	20
22	BL 3.5/22/90 SN OR	163875	20
23	BL 3.5/23/90 SN OR	163876	20
24	BL 3.5/24/90 SN OR	163877	20

BL 3.5/2 ... 24/90F

Socket blocks with flange

No. poles	Type	Cat. No.	Qty.
2	BL 3.5/2F/90F SN OR	163901	100
3	BL 3.5/3F/90F SN OR	163902	100
4	BL 3.5/4F/90F SN OR	163903	100
5	BL 3.5/5F/90F SN OR	163904	50
6	BL 3.5/6F/90F SN OR	163905	50
7	BL 3.5/7F/90F SN OR	163906	50
8	BL 3.5/8F/90F SN OR	163907	50
9	BL 3.5/9F/90F SN OR	163908	50
10	BL 3.5/10F/90F SN OR	163909	50
11	BL 3.5/11F/90F SN OR	163910	50
12	BL 3.5/12F/90F SN OR	163911	50
13	BL 3.5/13F/90F SN OR	163912	50
14	BL 3.5/14F/90F SN OR	163913	50
15	BL 3.5/15F/90F SN OR	163914	50
16	BL 3.5/16F/90F SN OR	163915	50
17	BL 3.5/17F/90F SN OR	163916	20
18	BL 3.5/18F/90F SN OR	163917	20
19	BL 3.5/19F/90F SN OR	163918	20
20	BL 3.5/20F/90F SN OR	163919	20
21	BL 3.5/21F/90F SN OR	163920	20
22	BL 3.5/22F/90F SN OR	163921	20
23	BL 3.5/23F/90F SN OR	163922	20
24	BL 3.5/24F/90F SN OR	163923	20

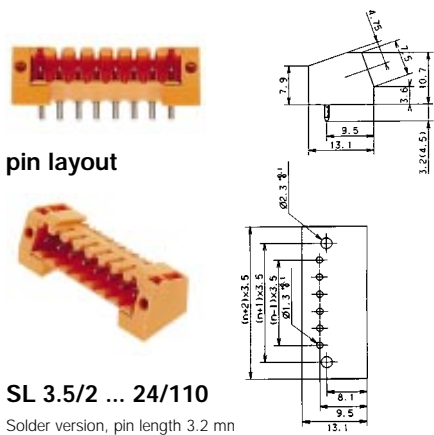
Accessories

Coding element, floodlight indication, Mounting strip, Latch
Processing tool, fixing screws, strain relief

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SL 3.5/110 pin headers

tin-plated version



SL 3.5/2 ... 24/110

Solder version, pin length 3.2 mm

No. poles	Type	Cat. No.	Qty.
2	SL 3.5/2/110 3.2SN OR	164404	100
3	SL 3.5/3/110 3.2SN OR	164405	100
4	SL 3.5/4/110 3.2SN OR	164406	100
5	SL 3.5/5/110 3.2SN OR	164407	50
6	SL 3.5/6/110 3.2SN OR	164408	50
7	SL 3.5/7/110 3.2SN OR	164409	50
8	SL 3.5/8/110 3.2SN OR	164410	50
9	SL 3.5/9/110 3.2SN OR	164411	50
10	SL 3.5/10/110 3.2SN OR	164412	50
11	SL 3.5/11/110 3.2SN OR	164413	50
12	SL 3.5/12/110 3.2SN OR	164414	50
13	SL 3.5/13/110 3.2SN OR	164415	50
14	SL 3.5/14/110 3.2SN OR	164416	50
15	SL 3.5/15/110 3.2SN OR	164417	50
16	SL 3.5/16/110 3.2SN OR	164418	50
17	SL 3.5/17/110 3.2SN OR	164419	20
18	SL 3.5/18/110 3.2SN OR	164420	20
19	SL 3.5/19/110 3.2SN OR	164421	20
20	SL 3.5/20/110 3.2SN OR	164422	20
21	SL 3.5/21/110 3.2SN OR	164423	20
22	SL 3.5/22/110 3.2SN OR	164424	20
23	SL 3.5/23/110 3.2SN OR	164425	20
24	SL 3.5/24/110 3.2SN OR	164426	20

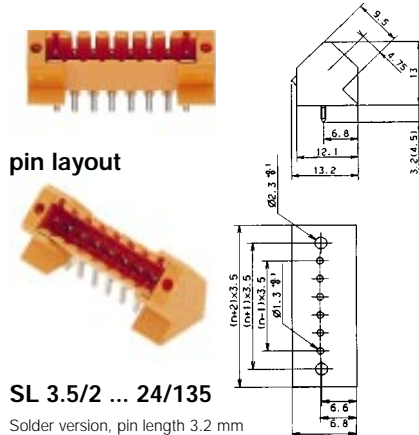
SL 3.5/2 ... 24/110

Solder version, pin length 4.5 mm

No. poles	Type	Cat. No.	Qty.
2	SL 3.5/2/110 4.5SN OR	164427	100
3	SL 3.5/3/110 4.5SN OR	164428	100
4	SL 3.5/4/110 4.5SN OR	164429	100
5	SL 3.5/5/110 4.5SN OR	164430	50
6	SL 3.5/6/110 4.5SN OR	164431	50
7	SL 3.5/7/110 4.5SN OR	164432	50
8	SL 3.5/8/110 4.5SN OR	164433	50
9	SL 3.5/9/110 4.5SN OR	164434	50
10	SL 3.5/10/110 4.5SN OR	164435	50
11	SL 3.5/11/110 4.5SN OR	164436	50
12	SL 3.5/12/110 4.5SN OR	164437	50
13	SL 3.5/13/110 4.5SN OR	164438	50
14	SL 3.5/14/110 4.5SN OR	164439	50
15	SL 3.5/15/110 4.5SN OR	164440	50
16	SL 3.5/16/110 4.5SN OR	164441	50
17	SL 3.5/17/110 4.5SN OR	164442	20
18	SL 3.5/18/110 4.5SN OR	164443	20
19	SL 3.5/19/110 4.5SN OR	164444	20
20	SL 3.5/20/110 4.5SN OR	164445	20
21	SL 3.5/21/110 4.5SN OR	164446	20
22	SL 3.5/22/110 4.5SN OR	164447	20
23	SL 3.5/23/110 4.5SN OR	164448	20
24	SL 3.5/24/110 4.5SN OR	164449	20

SL 3.5/135 pin headers

tin-plated version



SL 3.5/2 ... 24/135

Solder version, pin length 3.2 mm

No. poles	Type	Cat. No.	Qty.
2	SL 3.5/2/135 3.2SN OR	164333	100
3	SL 3.5/3/135 3.2SN OR	164334	100
4	SL 3.5/4/135 3.2SN OR	164335	100
5	SL 3.5/5/135 3.2SN OR	164336	50
6	SL 3.5/6/135 3.2SN OR	164337	50
7	SL 3.5/7/135 3.2SN OR	164338	50
8	SL 3.5/8/135 3.2SN OR	164339	50
9	SL 3.5/9/135 3.2SN OR	164340	50
10	SL 3.5/10/135 3.2SN OR	164341	50
11	SL 3.5/11/135 3.2SN OR	164342	50
12	SL 3.5/12/135 3.2SN OR	164343	50
13	SL 3.5/13/135 3.2SN OR	164344	50
14	SL 3.5/14/135 3.2SN OR	164345	50
15	SL 3.5/15/135 3.2SN OR	164346	50
16	SL 3.5/16/135 3.2SN OR	164347	50
17	SL 3.5/17/135 3.2SN OR	164348	20
18	SL 3.5/18/135 3.2SN OR	164349	20
19	SL 3.5/19/135 3.2SN OR	164350	20
20	SL 3.5/20/135 3.2SN OR	164351	20
21	SL 3.5/21/135 3.2SN OR	164352	20
22	SL 3.5/22/135 3.2SN OR	164353	20
23	SL 3.5/23/135 3.2SN OR	164354	20
24	SL 3.5/24/135 3.2SN OR	164355	20

SL 3.5/2 ... 24/135

Solder version, pin length 4.5 mm

No. poles	Type	Cat. No.	Qty.
2	SL 3.5/2/135 4.5SN OR	164358	100
3	SL 3.5/3/135 4.5SN OR	164359	100
4	SL 3.5/4/135 4.5SN OR	164360	100
5	SL 3.5/5/135 4.5SN OR	164361	50
6	SL 3.5/6/135 4.5SN OR	164362	50
7	SL 3.5/7/135 4.5SN OR	164363	50
8	SL 3.5/8/135 4.5SN OR	164364	50
9	SL 3.5/9/135 4.5SN OR	164365	50
10	SL 3.5/10/135 4.5SN OR	164366	50
11	SL 3.5/11/135 4.5SN OR	164367	50
12	SL 3.5/12/135 4.5SN OR	164368	50
13	SL 3.5/13/135 4.5SN OR	164369	50
14	SL 3.5/14/135 4.5SN OR	164370	50
15	SL 3.5/15/135 4.5SN OR	164371	50
16	SL 3.5/16/135 4.5SN OR	164372	50
17	SL 3.5/17/135 4.5SN OR	164373	20
18	SL 3.5/18/135 4.5SN OR	164374	20
19	SL 3.5/19/135 4.5SN OR	164375	20
20	SL 3.5/20/135 4.5SN OR	164376	20
21	SL 3.5/21/135 4.5SN OR	164377	20
22	SL 3.5/22/135 4.5SN OR	164378	20
23	SL 3.5/23/135 4.5SN OR	164379	20
24	SL 3.5/24/135 4.5SN OR	164380	20

Other colours on request

All pin headers with lateral flanges contain retaining nuts

Accessories

Coding element, Floodlight indication, fixing strip, lock

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Processing tool, fixing screws, strain relief

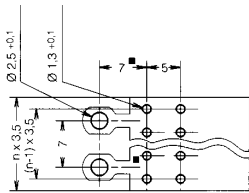
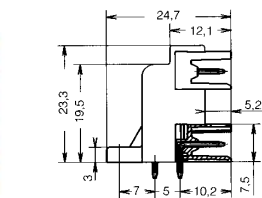
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SLD 3.5/90 pin headers

tin-plated version



pin layout

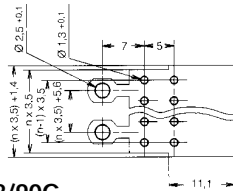
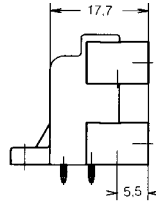


SLD 3.5/90G pin headers

tin-plated version

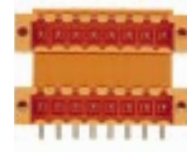


pin layout

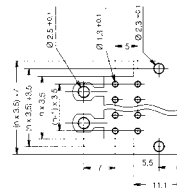
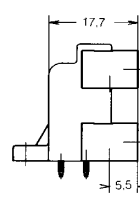


SLD 3.5/90F pin headers

tin-plated version



pin layout



SLD 3.5/4 ... 48/90

90° solder version, pin length 3.2 mm*

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5/4/90 3.2SN OR	163335	50
6	SLD 3.5/6/90 3.2SN OR	163336	50
8	SLD 3.5/8/90 3.2SN OR	163337	50
10	SLD 3.5/10/90 3.2SN OR	163338	50
12	SLD 3.5/12/90 3.2SN OR	163339	50
14	SLD 3.5/14/90 3.2SN OR	163340	20
16	SLD 3.5/16/90 3.2SN OR	163341	20
18	SLD 3.5/18/90 3.2SN OR	163342	20
20	SLD 3.5/20/90 3.2SN OR	163343	20
22	SLD 3.5/22/90 3.2SN OR	163344	10
24	SLD 3.5/24/90 3.2SN OR	163345	10
26	SLD 3.5/26/90 3.2SN OR	163346	10
28	SLD 3.5/28/90 3.2SN OR	163347	10
30	SLD 3.5/30/90 3.2SN OR	163348	10
32	SLD 3.5/32/90 3.2SN OR	163349	10
34	SLD 3.5/34/90 3.2SN OR	163350	10
36	SLD 3.5/36/90 3.2SN OR	163351	10
38	SLD 3.5/38/90 3.2SN OR	163352	10
40	SLD 3.5/40/90 3.2SN OR	163353	10
42	SLD 3.5/42/90 3.2SN OR	163354	10
44	SLD 3.5/44/90 3.2SN OR	163355	10
46	SLD 3.5/46/90 3.2SN OR	163356	10
48	SLD 3.5/48/90 3.2SN OR	163357	10

SLD 3.5/4 ... 48/90G

90° solder version, pin length 3.2 mm*
Closed-end version

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5/4/90G 3.2SN OR	163358	50
6	SLD 3.5/6/90G 3.2SN OR	163359	50
8	SLD 3.5/8/90G 3.2SN OR	163360	50
10	SLD 3.5/10/90G 3.2SN OR	163361	50
12	SLD 3.5/12/90G 3.2SN OR	163362	50
14	SLD 3.5/14/90G 3.2SN OR	163363	20
16	SLD 3.5/16/90G 3.2SN OR	163364	20
18	SLD 3.5/18/90G 3.2SN OR	163365	20
20	SLD 3.5/20/90G 3.2SN OR	163366	20
22	SLD 3.5/22/90G 3.2SN OR	163367	10
24	SLD 3.5/24/90G 3.2SN OR	163368	10
26	SLD 3.5/26/90G 3.2SN OR	163369	10
28	SLD 3.5/28/90G 3.2SN OR	163370	10
30	SLD 3.5/30/90G 3.2SN OR	163371	10
32	SLD 3.5/32/90G 3.2SN OR	163372	10
34	SLD 3.5/34/90G 3.2SN OR	163373	10
36	SLD 3.5/36/90G 3.2SN OR	163374	10
38	SLD 3.5/38/90G 3.2SN OR	163375	10
40	SLD 3.5/40/90G 3.2SN OR	163376	10
42	SLD 3.5/42/90G 3.2SN OR	163377	10
44	SLD 3.5/44/90G 3.2SN OR	163378	10
46	SLD 3.5/46/90G 3.2SN OR	163379	10
48	SLD 3.5/48/90G 3.2SN OR	163380	10

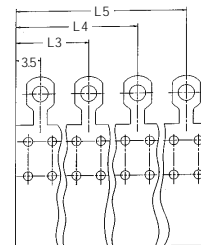
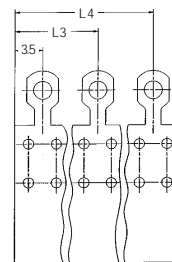
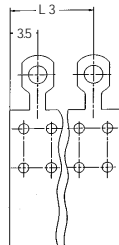
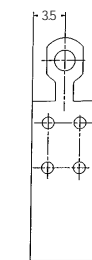
SLD 3.5/4 ... 48/90F

90° solder version, pin length 3.2 mm*
Flanged version for mounting

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5/4/90F 3.2SN OR	163381	50
6	SLD 3.5/6/90F 3.2SN OR	163382	50
8	SLD 3.5/8/90F 3.2SN OR	163383	50
10	SLD 3.5/10/90F 3.2SN OR	163384	50
12	SLD 3.5/12/90F 3.2SN OR	163385	50
14	SLD 3.5/14/90F 3.2SN OR	163386	20
16	SLD 3.5/16/90F 3.2SN OR	163387	20
18	SLD 3.5/18/90F 3.2SN OR	163388	20
20	SLD 3.5/20/90F 3.2SN OR	163389	20
22	SLD 3.5/22/90F 3.2SN OR	163390	10
24	SLD 3.5/24/90F 3.2SN OR	163391	10
26	SLD 3.5/26/90F 3.2SN OR	163392	10
28	SLD 3.5/28/90F 3.2SN OR	163393	10
30	SLD 3.5/30/90F 3.2SN OR	163394	10
32	SLD 3.5/32/90F 3.2SN OR	163395	10
34	SLD 3.5/34/90F 3.2SN OR	163396	10
36	SLD 3.5/36/90F 3.2SN OR	163397	10
38	SLD 3.5/38/90F 3.2SN OR	163398	10
40	SLD 3.5/40/90F 3.2SN OR	163399	10
42	SLD 3.5/42/90F 3.2SN OR	163400	10
44	SLD 3.5/44/90F 3.2SN OR	163401	10
46	SLD 3.5/46/90F 3.2SN OR	163402	10
48	SLD 3.5/48/90F 3.2SN OR	163403	10

SLD 3.5 Pin layout for lateral bracket

No. poles	Distance to bracket in mm		
	L3	L4	L5
4			
6			
8	10,5		
10	14		
12	17,5		
14	21		
16	24,5		
18	14	28	
20	17,5	31,5	
22	17,5	35	
24	21	38,5	
26	21	42	
28	24,5	45,5	
30	24,5	49	
32	28	52,5	
34	21	38,5	56
36	21	42	59,5
38	24,5	42	63
40	24,5	45,5	66,5
42	24,5	49	70
44	28	49	73,5
46	28	52,5	77
48	28	56	80,5



* Pin length 4,5 mm available on request

All pin headers with lateral flanges contain retaining nuts

Accessories

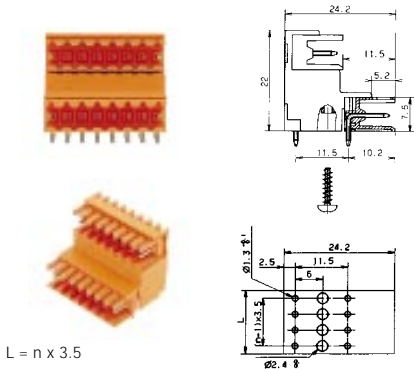
Coding element, floodlight indication, fixing strip, lock
Processing tool, fixing screws, strain relief

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SLD 3.5 V/90 pin headers

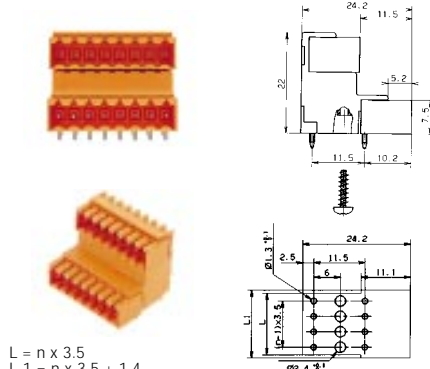
tin-plated version



L = n x 3.5

SLD 3.5 V/90G pin headers

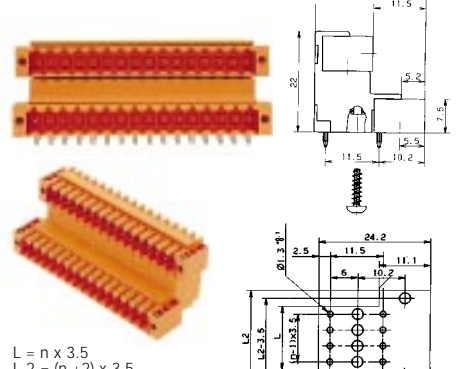
tin-plated version



L = n x 3.5
L1 = n x 3.5 + 1.4

SLD 3.5 V/90F pin headers

tin-plated version



L = n x 3.5
L2 = (n + 2) x 3.5

SLD 3.5 V/4 ... 48/90

90° solder version, pin length 3.2 mm

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/90 3.2SN OR	164209	50
8	SLD 3.5 V/8/90 3.2SN OR	164210	50
12	SLD 3.5 V/12/90 3.2SN OR	164211	50
16	SLD 3.5 V/16/90 3.2SN OR	164212	20
20	SLD 3.5 V/20/90 3.2SN OR	164213	20
24	SLD 3.5 V/24/90 3.2SN OR	164214	10
28	SLD 3.5 V/28/90 3.2SN OR	164215	10
32	SLD 3.5 V/32/90 3.2SN OR	164216	10
36	SLD 3.5 V/36/90 3.2SN OR	164217	10
40	SLD 3.5 V/40/90 3.2SN OR	164218	10
44	SLD 3.5 V/44/90 3.2SN OR	164219	10
48	SLD 3.5 V/48/90 3.2SN OR	164220	10

SLD 3.5 V/4 ... 48/90G

90° solder version, pin length 3.2 mm
Closed end version

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/90G 3.2SN OR	164224	50
8	SLD 3.5 V/8/90G 3.2SN OR	164225	50
12	SLD 3.5 V/12/90G 3.2SN OR	164226	50
16	SLD 3.5 V/16/90G 3.2SN OR	164227	20
20	SLD 3.5 V/20/90G 3.2SN OR	164228	20
24	SLD 3.5 V/24/90G 3.2SN OR	164229	10
28	SLD 3.5 V/28/90G 3.2SN OR	164230	10
32	SLD 3.5 V/32/90G 3.2SN OR	164231	10
36	SLD 3.5 V/36/90G 3.2SN OR	164232	10
40	SLD 3.5 V/40/90G 3.2SN OR	164233	10
44	SLD 3.5 V/44/90G 3.2SN OR	164234	10
48	SLD 3.5 V/48/90G 3.2SN OR	164235	10

SLD 3.5 V/4 ... 48/90F

90° solder version, pin length 3.2 mm
Flanged version for mounting

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/90F 3.2SN OR	164237	50
8	SLD 3.5 V/8/90F 3.2SN OR	164238	50
12	SLD 3.5 V/12/90F 3.2SN OR	164239	50
16	SLD 3.5 V/16/90F 3.2SN OR	164240	20
20	SLD 3.5 V/20/90F 3.2SN OR	164241	20
24	SLD 3.5 V/24/90F 3.2SN OR	164242	10
28	SLD 3.5 V/28/90F 3.2SN OR	164243	10
32	SLD 3.5 V/32/90F 3.2SN OR	164244	10
36	SLD 3.5 V/36/90F 3.2SN OR	164245	10
40	SLD 3.5 V/40/90F 3.2SN OR	164246	10
44	SLD 3.5 V/44/90F 3.2SN OR	164247	10
48	SLD 3.5 V/48/90F 3.2SN OR	164248	10

SLD 3.5 V/4 ... 48/90

90° solder version, pin length 4.5 mm

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/90 4.5SN OR	164250	50
8	SLD 3.5 V/8/90 4.5SN OR	164251	50
12	SLD 3.5 V/12/90 4.5SN OR	164252	50
16	SLD 3.5 V/16/90 4.5SN OR	164253	20
20	SLD 3.5 V/20/90 4.5SN OR	164254	20
24	SLD 3.5 V/24/90 4.5SN OR	164255	10
28	SLD 3.5 V/28/90 4.5SN OR	164256	10
32	SLD 3.5 V/32/90 4.5SN OR	164257	10
36	SLD 3.5 V/36/90 4.5SN OR	164258	10
40	SLD 3.5 V/40/90 4.5SN OR	164259	10
44	SLD 3.5 V/44/90 4.5SN OR	164260	10
48	SLD 3.5 V/48/90 4.5SN OR	164261	10

SLD 3.5 V/4 ... 48/90G

90° solder version, pin length 4.5 mm
Closed-end version

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/90G 4.5SN OR	164274	50
8	SLD 3.5 V/8/90G 4.5SN OR	164275	50
12	SLD 3.5 V/12/90G 4.5SN OR	164276	50
16	SLD 3.5 V/16/90G 4.5SN OR	164277	20
20	SLD 3.5 V/20/90G 4.5SN OR	164278	20
24	SLD 3.5 V/24/90G 4.5SN OR	164279	10
28	SLD 3.5 V/28/90G 4.5SN OR	164280	10
32	SLD 3.5 V/32/90G 4.5SN OR	164281	10
36	SLD 3.5 V/36/90G 4.5SN OR	164282	10
40	SLD 3.5 V/40/90G 4.5SN OR	164283	10
44	SLD 3.5 V/44/90G 4.5SN OR	164284	10
48	SLD 3.5 V/48/90G 4.5SN OR	164285	10

SLD 3.5 V/4 ... 48/90F

90° solder version, pin length 4.5 mm
Flanged version for mounting

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/90F 4.5SN OR	164298	50
8	SLD 3.5 V/8/90F 4.5SN OR	164299	50
12	SLD 3.5 V/12/90F 4.5SN OR	164300	50
16	SLD 3.5 V/16/90F 4.5SN OR	164301	20
20	SLD 3.5 V/20/90F 4.5SN OR	164302	20
24	SLD 3.5 V/24/90F 4.5SN OR	164303	10
28	SLD 3.5 V/28/90F 4.5SN OR	164304	10
32	SLD 3.5 V/32/90F 4.5SN OR	164305	10
36	SLD 3.5 V/36/90F 4.5SN OR	164306	10
40	SLD 3.5 V/40/90F 4.5SN OR	164307	10
44	SLD 3.5 V/44/90F 4.5SN OR	164308	10
48	SLD 3.5 V/48/90F 4.5SN OR	164309	10

All pin headers with lateral flanges contain retaining nuts
Intermediate pole sizes such as 6-, 10-, 14-, ... 46 available on request

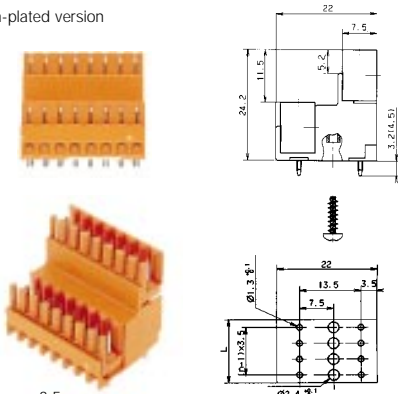
Accessories

Coding element, floodlight indication, fixing strip, lock
Processing tool, fixing screws, strain relief

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SLD 3.5 V/180 pin headers

tin-plated version



L = n x 3.5

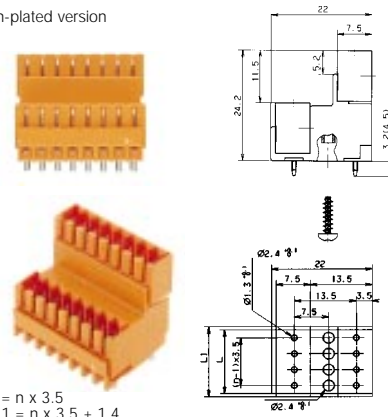
SLD 3.5 V/4 ... 48/180

180° solder version, pin length 3.2 mm

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/180 3.2SN OR	164098	50
8	SLD 3.5 V/8/180 3.2SN OR	164099	50
12	SLD 3.5 V/12/180 3.2SN OR	164100	50
16	SLD 3.5 V/16/180 3.2SN OR	164101	20
20	SLD 3.5 V/20/180 3.2SN OR	164102	20
24	SLD 3.5 V/24/180 3.2SN OR	164103	10
28	SLD 3.5 V/28/180 3.2SN OR	164104	10
32	SLD 3.5 V/32/180 3.2SN OR	164105	10
36	SLD 3.5 V/36/180 3.2SN OR	164106	10
40	SLD 3.5 V/40/180 3.2SN OR	164107	10
44	SLD 3.5 V/44/180 3.2SN OR	164108	10
48	SLD 3.5 V/48/180 3.2SN OR	164109	10

SLD 3.5 V/180G pin headers

tin-plated version



L = n x 3.5
L 1 = n x 3.5 + 1.4

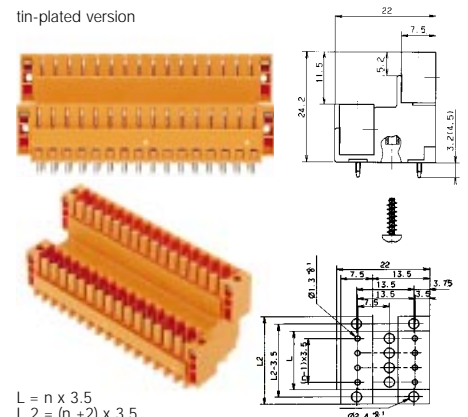
SLD 3.5 V/4 ... 48/180G

180°-solder version, pin length 3,2 mm
Closed end version

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/180G 3.2SN OR	164111	50
8	SLD 3.5 V/8/180G 3.2SN OR	164112	50
12	SLD 3.5 V/12/180G 3.2SN OR	164113	50
16	SLD 3.5 V/16/180G 3.2SN OR	164114	20
20	SLD 3.5 V/20/180G 3.2SN OR	164115	20
24	SLD 3.5 V/24/180G 3.2SN OR	164116	10
28	SLD 3.5 V/28/180G 3.2SN OR	164117	10
32	SLD 3.5 V/32/180G 3.2SN OR	164118	10
36	SLD 3.5 V/36/180G 3.2SN OR	164119	10
40	SLD 3.5 V/40/180G 3.2SN OR	164120	10
44	SLD 3.5 V/44/180G 3.2SN OR	164121	10
48	SLD 3.5 V/48/180G 3.2SN OR	164122	10

SLD 3.5 V/180F pin headers

tin-plated version



L = n x 3.5
L 2 = (n + 2) x 3.5

SLD 3.5 V/4 ... 48/180F

180° solder version, pin length 3.2 mm
Flanged version for mounting

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/180F 3.2SN OR	164124	50
8	SLD 3.5 V/8/180F 3.2SN OR	164125	50
12	SLD 3.5 V/12/180F 3.2SN OR	164126	50
16	SLD 3.5 V/16/180F 3.2SN OR	164127	20
20	SLD 3.5 V/20/180F 3.2SN OR	164128	20
24	SLD 3.5 V/24/180F 3.2SN OR	164129	10
28	SLD 3.5 V/28/180F 3.2SN OR	164130	10
32	SLD 3.5 V/32/180F 3.2SN OR	164131	10
36	SLD 3.5 V/36/180F 3.2SN OR	164132	10
40	SLD 3.5 V/40/180F 3.2SN OR	164133	10
44	SLD 3.5 V/44/180F 3.2SN OR	164134	10
48	SLD 3.5 V/48/180F 3.2SN OR	164135	10

SLD 3.5 V/4 ... 48/180

180° solder version, pin length 4.5 mm

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/180 4.5SN OR	164137	50
8	SLD 3.5 V/8/180 4.5SN OR	164138	50
12	SLD 3.5 V/12/180 4.5SN OR	164139	50
16	SLD 3.5 V/16/180 4.5SN OR	164140	20
20	SLD 3.5 V/20/180 4.5SN OR	164141	20
24	SLD 3.5 V/24/180 4.5SN OR	164142	10
28	SLD 3.5 V/28/180 4.5SN OR	164143	10
32	SLD 3.5 V/32/180 4.5SN OR	164144	10
36	SLD 3.5 V/36/180 4.5SN OR	164145	10
40	SLD 3.5 V/40/180 4.5SN OR	164146	10
44	SLD 3.5 V/44/180 4.5SN OR	164147	10
48	SLD 3.5 V/48/180 4.5SN OR	164148	10

SLD 3.5 V/4 ... 48/180G

180° solder version, pin length 4.5 mm
Closed-end version

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/180G 4.5SN OR	164161	50
8	SLD 3.5 V/8/180G 4.5SN OR	164162	50
12	SLD 3.5 V/12/180G 4.5SN OR	164163	50
16	SLD 3.5 V/16/180G 4.5SN OR	164164	20
20	SLD 3.5 V/20/180G 4.5SN OR	164165	20
24	SLD 3.5 V/24/180G 4.5SN OR	164166	10
28	SLD 3.5 V/28/180G 4.5SN OR	164167	10
32	SLD 3.5 V/32/180G 4.5SN OR	164168	10
36	SLD 3.5 V/36/180G 4.5SN OR	164169	10
40	SLD 3.5 V/40/180G 4.5SN OR	164170	10
44	SLD 3.5 V/44/180G 4.5SN OR	164171	10
48	SLD 3.5 V/48/180G 4.5SN OR	164172	10

SLD 3.5 V/4 ... 48/180F

180° solder version, pin length 4.5 mm
Flanged version for mounting

No. poles	Type	Cat. No.	Qty.
4	SLD 3.5 V/4/180F 4.5SN OR	164185	50
8	SLD 3.5 V/8/180F 4.5SN OR	164186	50
12	SLD 3.5 V/12/180F 4.5SN OR	164187	50
16	SLD 3.5 V/16/180F 4.5SN OR	164188	20
20	SLD 3.5 V/20/180F 4.5SN OR	164189	20
24	SLD 3.5 V/24/180F 4.5SN OR	164190	10
28	SLD 3.5 V/28/180F 4.5SN OR	164191	10
32	SLD 3.5 V/32/180F 4.5SN OR	164192	10
36	SLD 3.5 V/36/180F 4.5SN OR	164193	10
40	SLD 3.5 V/40/180F 4.5SN OR	164194	10
44	SLD 3.5 V/44/180F 4.5SN OR	164195	10
48	SLD 3.5 V/48/180F 4.5SN OR	164196	10

All pin headers with lateral flanges contain retaining nuts
Intermediate pole sizes such as 6, 10, 14 ... 46 available on request.

Accessories

Coding element, floodlight indication, fixing strip, lock
Processing tool, fixing screws, strain relief

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