Overview of PCB Connectors

	Chapter	Connected loads to IEC 60664-1 / IEC 61984				Connected loads to UL 1059			
		Pitch [mm]	Conductor cross-section [mm²]	Max. rated current [A]	Max. rated voltage [V]	Pitch [inch]	Conductor cross-section [AWG]	Max. rated current [A]	Max. rated voltage [V]
Minimate Range pitch 3.50	D	3.50 x 2.50	0.20 - 1.0	10	250	0.138 x 0.098	28 - 18	10	150
Omnimate Range pitch 3.50 / 3.81	E	3.50	0.20 - 1.5	17	250	0.138	28 - 14	10	300
		3.81	0.20 - 1.5	14.5	250	0.150	28 - 16	8	300
Omnimate Range pitch 5.00 / 5.08	F	5.00 5.08	0.20 - 2.5	23	400	0.197 0.200	26 - 12	15	300
Omnimate Range pitch 7.50 / 7.62	G	7.50 7.62	0.20 - 2.5	20	800	0.295 0.300	26 - 12	15	300
Unimate Range pitch 5.08	H	5.08	0.20 - 2.5	20	400	0.200	26 - 12	10	300
Powermate Range pitch 7.00	I	7.00	0.32 - 4.0	32	1000	0.276	22 - 12	25	600
Powermate Range pitch 7.62	J	7.62	0.20 - 6.0	41	800	0.300	22 - 10	31	600
Powermate Range pitch 10.16	K	10.16	0.20 - 16.0	69	1000	0.400	22 - 6	54	600
Crimpmate Range pitch 5.00	L	5.00	0.20 - 2.5	17	500	0.197	26 - 12	10	600

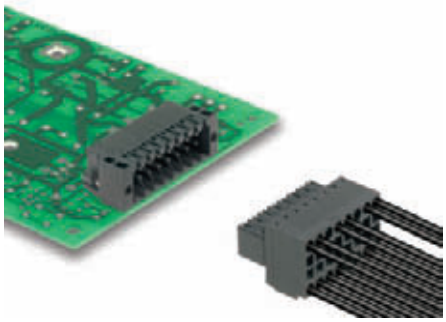
Minimate Range pitch 3.50

Minimate Range pitch 3.50

Male connectors with THR solder connection	D.2
Male connectors with solder connection	D.10
Socket connectors with tension clamp connection	D.14

Male connectors with THR solder connection

S2L-SMT 3.5/90G

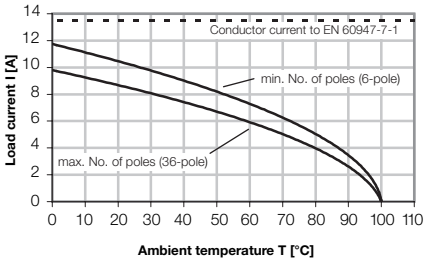


High-temperature-resistant, angled, double density, closed male connector for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

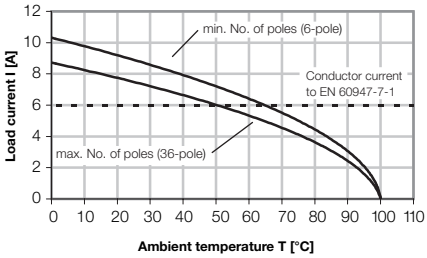
- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

Derating curve

S2L-SMT 3.5/90 / B2L / H05V-K1.0

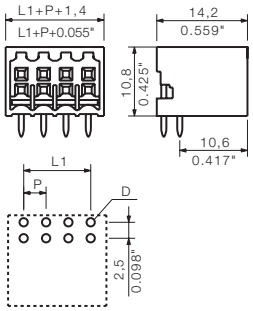


S2L-SMT 3.5/90 / B2L / H05V-K0.5



S2L-SMT 3.5/90G Box

closed ends



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade according to norm	mm			
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	50	125	160
Rated impulse voltage	kV	2.5	1.5	1.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	10		10
AWG conductor				
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor				
Material data				
Type of insulating material		LCP GF		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.3+0.1mm
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

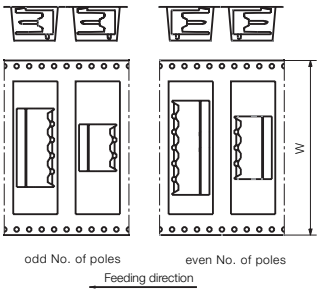
Solper pin length	**3.2 mm**
Colour	**black**

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		**1794210000**
8	10.50	(0.413)	50		**1794220000**
10	14.00	(0.551)	50		**1794230000**
12	17.50	(0.689)	50		**1794240000**
14	21.00	(0.827)	50		**1794250000**
16	24.50	(0.965)	50		**1794260000**
18	28.00	(1.102)	20		**1794270000**
20	31.50	(1.240)	20		**1794280000**
22	35.00	(1.378)	20		**1794290000**
24	38.50	(1.516)	20		**1794300000**
26	42.00	(1.654)	20		**1794310000**
28	45.50	(1.791)	20		**1794320000**
30	49.00	(1.929)	20		**1794330000**
32	52.50	(2.067)	20		**1794340000**
34	56.00	(2.205)	20		**1794350000**
36	59.50	(2.343)	20		**1794360000**

S2L-SMT 3.5/90G Tape

closed ends in tape



Ordering data

Solder pin length	3.2 mm
Colour	black

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	200		1807470000
8	10.50	(0.413)	200		1807480000
10	14.00	(0.551)	200		1807490000
12	17.50	(0.689)	200		1807500000
14	21.00	(0.827)	200		1807510000
16	24.50	(0.965)	200		1807520000
18	28.00	(1.102)	200		1807530000
20	31.50	(1.240)	200		1807540000
22	35.00	(1.378)	200		1807550000
24	38.50	(1.516)	200		1802190000

Tape width W = 56 mm

Accessories

Possible colors

Additional colours on request

Coding

See chapter accessories

Marking strips

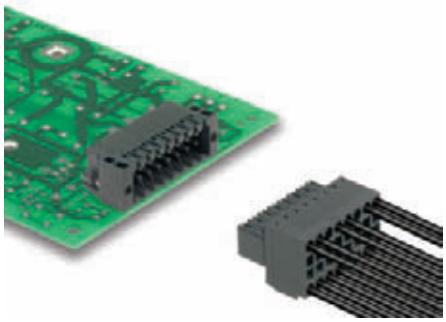
See chapter accessories

Floodlight indicator

See chapter accessories

Male connectors with THR solder connection

S2L-SMT 3.5/90LF

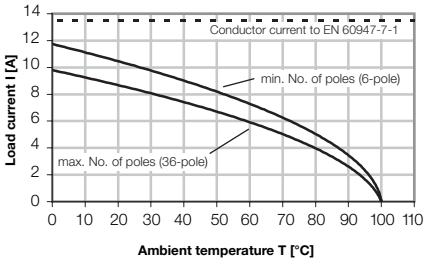


High-temperature-resistant, angled, double density male connector with solder flange for all common soldering methods. Optimised for automatic assembly. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

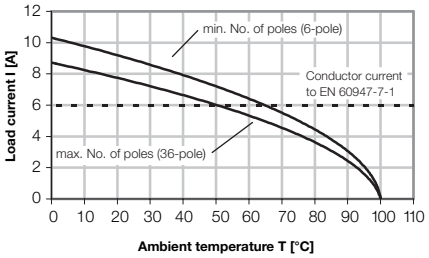
- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

Derating curve

S2L-SMT 3.5/90 / B2L / H05V-K1.0

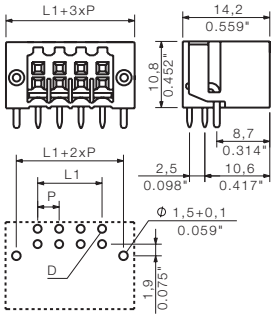


S2L-SMT 3.5/90 / B2L / H05V-K0.5



S2L-SMT 3.5/90LF Box

with solder flange



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade according to norm	mm			
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	50	125	160
Rated impulse voltage	kV	2.5	1.5	1.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	10		10
AWG conductor				
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor				
Material data				
Type of insulating material		LCP GF		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.3+0.1mm
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

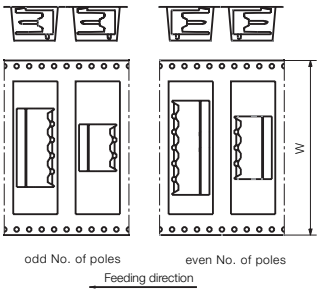
Solder pin length	**3.2 mm**
Colour	**black**

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		**1794860000**
8	10.50	(0.413)	50		**1794870000**
10	14.00	(0.551)	50		**1794880000**
12	17.50	(0.689)	50		**1794890000**
14	21.00	(0.827)	50		**1794900000**
16	24.50	(0.965)	50		**1794910000**
18	28.00	(1.102)	20		**1794920000**
20	31.50	(1.240)	20		**1794930000**
22	35.00	(1.378)	20		**1794940000**
24	38.50	(1.516)	20		**1794950000**
26	42.00	(1.654)	20		**1794960000**
28	45.50	(1.791)	20		**1794970000**
30	49.00	(1.929)	20		**1794980000**
32	52.50	(2.067)	20		**1794990000**
34	56.00	(2.205)	20		**1795000000**
36	59.50	(2.343)	20		**1795010000**

S2L-SMT 3.5/90LF Tape

with solder flange in tape



Ordering data

Solder pin length	3.2 mm
Colour	black

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	200		1807560000
8	10.50	(0.413)	200		1807570000
10	14.00	(0.551)	200		1807580000
12	17.50	(0.689)	200		1807590000
14	21.00	(0.827)	200		1807600000
16	24.50	(0.965)	200		1807610000
18	28.00	(1.102)	200		1807620000
20	31.50	(1.240)	200		1807630000

Tape width W = 56 mm

Accessories

Possible colors

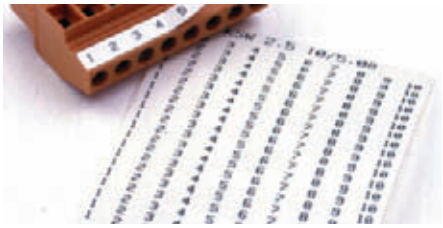
Additional colours on request

Coding

See chapter accessories

Marking strips

See chapter accessories

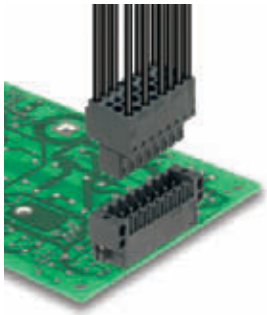


Floodlight indicator

See chapter accessories

Male connectors with THR solder connection

S2L-SMT 3.5/180G

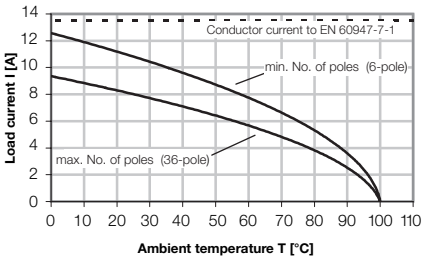


High-temperature-resistant, straight, double density male connector for all common soldering methods. Optimised for automatic assembly with pick&place pad. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

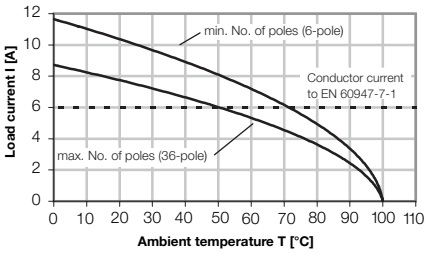
- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

Derating curve

S2L-SMT 3.5/180 / B2L / H05V-K1.0

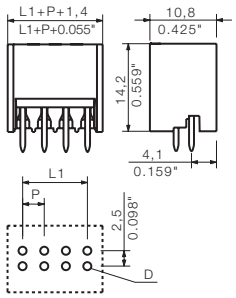


S2L-SMT 3.5/180 / B2L / H05V-K0.5



S2L-SMT 3.5/180G Box

closed ends



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade according to norm	mm			
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	50	125	160
Rated impulse voltage	kV	2.5	1.5	1.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	10		10
AWG conductor				
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor				
Material data				
Type of insulating material		LCP GF		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.3+0.1mm
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

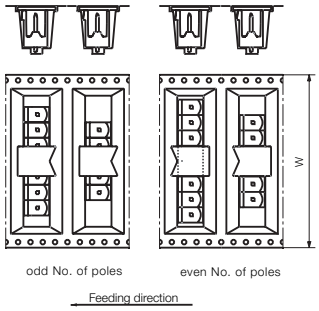
Solper pin length	**3.5 mm**
Colour	**black**

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		**1794530000**
8	10.50	(0.413)	50		**1794540000**
10	14.00	(0.551)	50		**1794550000**
12	17.50	(0.689)	50		**1794560000**
14	21.00	(0.827)	50		**1794570000**
16	24.50	(0.965)	50		**1794580000**
18	28.00	(1.102)	20		**1794590000**
20	31.50	(1.240)	20		**1794600000**
22	35.00	(1.378)	20		**1794610000**
24	38.50	(1.516)	20		**1794620000**
26	42.00	(1.654)	20		**1794630000**
28	45.50	(1.791)	20		**1794640000**
30	49.00	(1.929)	20		**1794650000**
32	52.50	(2.067)	20		**1794660000**
34	56.00	(2.205)	20		**1794670000**
36	59.50	(2.343)	20		**1794680000**

S2L-SMT 3.5/180G Tape

closed ends in tape



Ordering data

Solder pin length	3.5 mm
Colour	black

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	150		1807780000
8	10.50	(0.413)	150		1807790000
10	14.00	(0.551)	150		1807800000
12	17.50	(0.689)	150		1807810000
14	21.00	(0.827)	150		1807820000
16	24.50	(0.965)	150		1807830000
18	28.00	(1.102)	150		1807840000
20	31.50	(1.240)	150		1807850000
22	35.00	(1.378)	150		1807860000
24	38.50	(1.516)	150		1802220000

Tape width W = 56 mm

Accessories

Possible colors

Additional colours on request

Coding

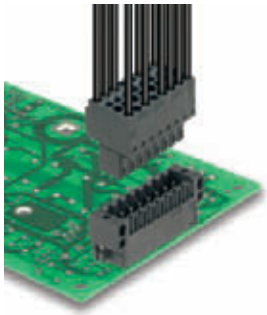
See chapter accessories

Marking strips

See chapter accessories

Male connectors with THR solder connection

S2L-SMT 3.5/180LF

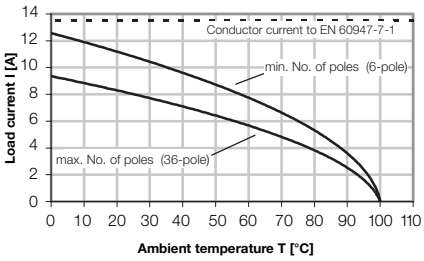


High-temperature-resistant, straight, 2-row male connector with solder flange for all common soldering methods. Optimised for automatic assembly with pick&place pad. Packed in box or tape. 3.2 mm solder pin suitable for reflow and wave soldering. Stable up to 290°C (2 x 30 s), which exceeds the requirements of EN 61760-1. These male connectors can be labelled and coded.

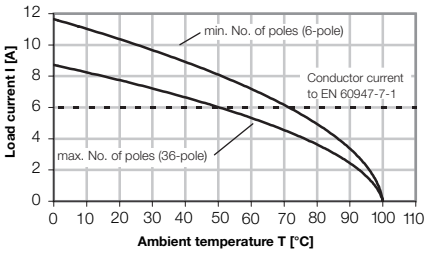
- 50 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

Derating curve

S2L-SMT 3.5/180 / B2L / H05V-K1.0

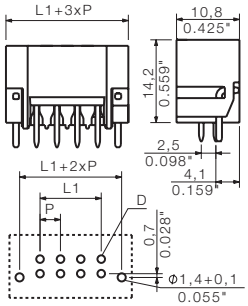


S2L-SMT 3.5/180 / B2L / H05V-K0.5



S2L-SMT 3.5/180LF Box

with solder flange



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade according to norm	mm			
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	50	125	160
Rated impulse voltage	kV	2.5	1.5	1.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	10		10
AWG conductor				
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor				
Material data				
Type of insulating material		LCP GF		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.3+0.1mm
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

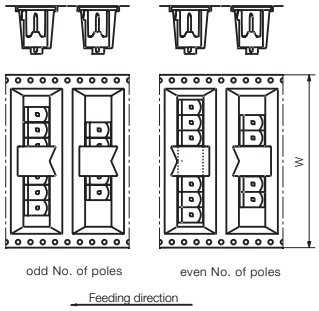
Solder pin length	**3.5 mm**
Colour	**black**

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		**1795200000**
8	10.50	(0.413)	50		**1795210000**
10	14.00	(0.551)	50		**1795220000**
12	17.50	(0.689)	50		**1795230000**
14	21.00	(0.827)	50		**1795240000**
16	24.50	(0.965)	50		**1795250000**
18	28.00	(1.102)	20		**1795260000**
20	31.50	(1.240)	20		**1795270000**
22	35.00	(1.378)	20		**1795280000**
24	38.50	(1.516)	20		**1795290000**
26	42.00	(1.654)	20		**1795300000**
28	45.50	(1.791)	20		**1795310000**
30	49.00	(1.929)	20		**1795320000**
32	52.50	(2.067)	20		**1795330000**
34	56.00	(2.205)	20		**1795340000**
36	59.50	(2.343)	20		**1795350000**

S2L-SMT 3.5/180LF Tape

with solder flange in tape



Ordering data

Solder pin length	3.5 mm
Colour	black

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	150		1807870000
8	10.50	(0.413)	150		1807880000
10	14.00	(0.551)	150		1807890000
12	17.50	(0.689)	150		1807900000
14	21.00	(0.827)	150		1807910000
16	24.50	(0.965)	150		1807920000
18	28.00	(1.102)	150		1807930000
20	31.50	(1.240)	150		1807940000

Tape width W = 56 mm

Accessories

Possible colors

Additional colours on request

Coding

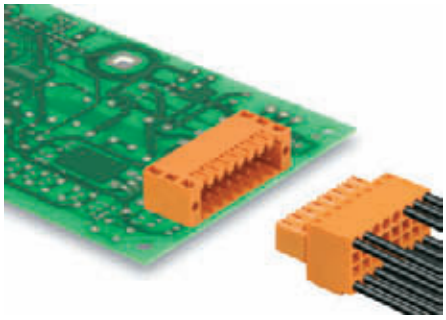
See chapter accessories

Marking strips

See chapter accessories

Male connectors with solder connection

S2L 3.5/90

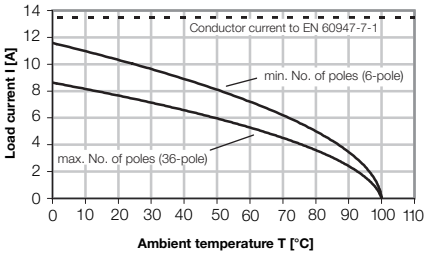


Angled, 2-row male connector in open-side, closed and flange versions. The male connectors with 3.5 mm pin length are designed for wave soldering and are packaged in a cardboard box. Cam also be screwed to PCB. The male connectors provide space for labelling and can be coded.

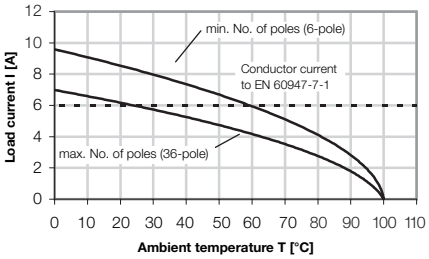
- 80 V (IEC) / 150 V (UL)
- 9 A (IEC / 8 A (UL)

Derating curve

S2L 3.5/90 / B2L / H05V-K1.0

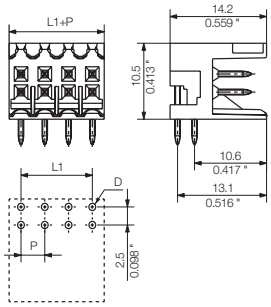


S2L 3.5/90 / B2L / H05V-K0.5



S2L 3.5/90

open side



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade according to norm	mm			
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	80	125	250
Rated impulse voltage	kV	2.5	2.5	2.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	7		7
AWG conductor				
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor				
Material data				
Type of insulating material		PBT		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.3+0.1mm
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

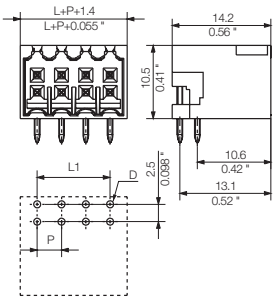
Solper pin length	**3.5 mm**
Colour	**orange**

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		**1728150000**
8	10.50	(0.413)	50		**1728160000**
10	14.00	(0.551)	50		**1728170000**
12	17.50	(0.689)	50		**1728180000**
14	21.00	(0.827)	50		**1728190000**
16	24.50	(0.965)	50		**1728200000**
18	28.00	(1.102)	20		**1728210000**
20	31.50	(1.240)	20		**1728220000**
22	35.00	(1.378)	20		**1728230000**
24	38.50	(1.516)	20		**1728240000**
26	42.00	(1.654)	20		**1728250000**
28	45.50	(1.791)	20		**1728260000**
30	49.00	(1.929)	20		**1728270000**
32	52.50	(2.067)	20		**1728280000**
34	56.00	(2.205)	20		**1728290000**
36	59.50	(2.343)	20		**1728300000**

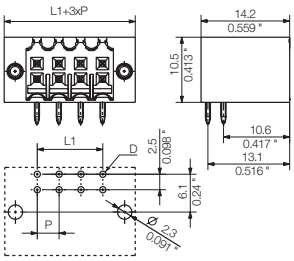
S2L 3.5/90G

closed ends



S2L 3.5/90F

with screw flange



Accessories

Possible colors

Additional colours on request

Coding

See chapter accessories

Marking strips

See chapter accessories

Floodlight indicator

See chapter accessories

Screw

See chapter accessories
PTSC KA 22 x 4.5

Ordering data

Solder pin length	3.5 mm
Colour	orange

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		1727830000
8	10.50	(0.413)	50		1727840000
10	14.00	(0.551)	50		1727850000
12	17.50	(0.689)	50		1727860000
14	21.00	(0.827)	50		1727870000
16	24.50	(0.965)	50		1727880000
18	28.00	(1.102)	20		1727890000
20	31.50	(1.240)	20		1727900000
22	35.00	(1.378)	20		1727910000
24	38.50	(1.516)	20		1727920000
26	42.00	(1.654)	20		1727930000
28	45.50	(1.791)	20		1727940000
30	49.00	(1.929)	20		1727950000
32	52.50	(2.067)	20		1727960000
34	56.00	(2.205)	20		1727970000
36	59.50	(2.343)	20		1727980000

Ordering data

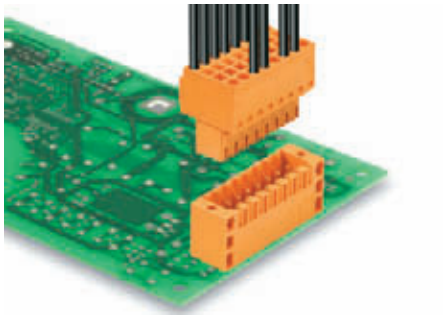
Solder pin length	3.5 mm
Colour	orange

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		1728470000
8	10.50	(0.413)	50		1728480000
10	14.00	(0.551)	50		1728490000
12	17.50	(0.689)	50		1728500000
14	21.00	(0.827)	50		1728510000
16	24.50	(0.965)	50		1728520000
18	28.00	(1.102)	20		1728530000
20	31.50	(1.240)	20		1728540000
22	35.00	(1.378)	20		1728550000
24	38.50	(1.516)	20		1728560000
26	42.00	(1.654)	20		1728570000
28	45.50	(1.791)	20		1728580000
30	49.00	(1.929)	20		1728590000
32	52.50	(2.067)	20		1728600000
34	56.00	(2.205)	20		1728610000
36	59.50	(2.343)	20		1728620000

Male connectors with solder connection

S2L 3.5/180

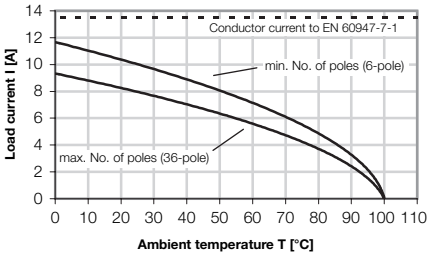


Straight, 2-row male connector available in open, closed and flange versions. The pin length of 3.5 mm is designed for wave soldering. It is also possible to screw them to the PCB. These male connectors provide space for labelling and can be coded. Supplied in cardboard box.

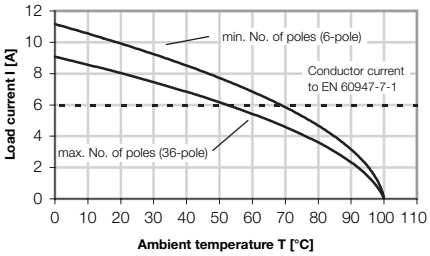
- 80 V (IEC) / 150 V (UL)
- 9 A (IEC / 8 A (UL)

Derating curve

S2L 3.5/180 / B2L / H05V-K1.0

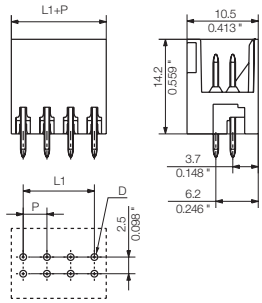


S2L 3.5/180 / B2L / H05V-K0.5



S2L 3.5/180

open side



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
according to norm				
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	80	125	250
Rated impulse voltage	kV	2.5	2.5	2.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	7		7
AWG conductor				
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor				
Material data				
Type of insulating material		PBT		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Hole diameter D = 1.3+0.1mm
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

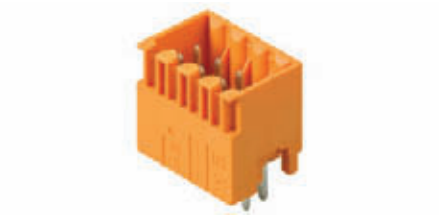
Solper pin length	**3.5 mm**
Colour	**orange**

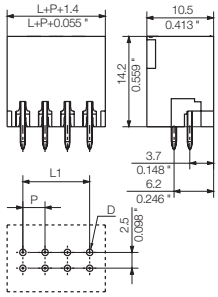
Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		**1729110000**
8	10.50	(0.413)	50		**1729120000**
10	14.00	(0.551)	50		**1729130000**
12	17.50	(0.689)	50		**1729140000**
14	21.00	(0.827)	50		**1729150000**
16	24.50	(0.965)	50		**1729160000**
18	28.00	(1.102)	20		**1729170000**
20	31.50	(1.240)	20		**1729180000**
22	35.00	(1.378)	20		**1729190000**
24	38.50	(1.516)	20		**1729200000**
26	42.00	(1.654)	20		**1729210000**
28	45.50	(1.791)	20		**1729220000**
30	49.00	(1.929)	20		**1729230000**
32	52.50	(2.067)	20		**1729240000**
34	56.00	(2.205)	20		**1729250000**
36	59.50	(2.343)	20		**1729260000**

S2L 3.5/180G

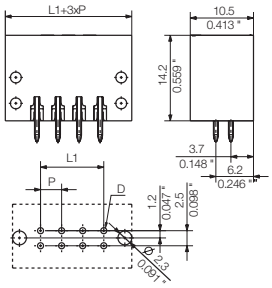
closed ends





S2L 3.5/180F

with screw flange



Accessories

Possible colors

Additional colours on request

Coding

See chapter accessories

Marking strips

See chapter accessories

Screw

See chapter accessories
PTSC KA 22 x 4.5

Ordering data

Solder pin length	3.5 mm
Colour	orange

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		1728790000
8	10.50	(0.413)	50		1728800000
10	14.00	(0.551)	50		1728810000
12	17.50	(0.689)	50		1728820000
14	21.00	(0.827)	50		1728830000
16	24.50	(0.965)	50		1728840000
18	28.00	(1.102)	20		1728850000
20	31.50	(1.240)	20		1728860000
22	35.00	(1.378)	20		1728870000
24	38.50	(1.516)	20		1728880000
26	42.00	(1.654)	20		1728890000
28	45.50	(1.791)	20		1728900000
30	49.00	(1.929)	20		1728910000
32	52.50	(2.067)	20		1728920000
34	56.00	(2.205)	20		1728930000
36	59.50	(2.343)	20		1728940000

Ordering data

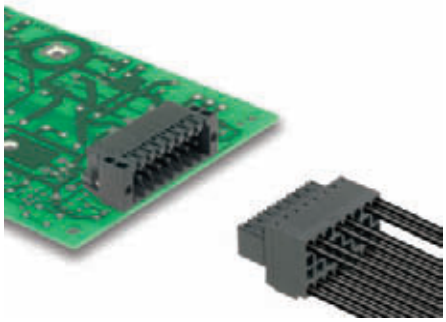
Solder pin length	3.5 mm
Colour	orange

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50		1729430000
8	10.50	(0.413)	50		1729440000
10	14.00	(0.551)	50		1729450000
12	17.50	(0.689)	50		1729460000
14	21.00	(0.827)	50		1729470000
16	24.50	(0.965)	50		1729480000
18	28.00	(1.102)	20		1729490000
20	31.50	(1.240)	20		1729500000
22	35.00	(1.378)	20		1729510000
24	38.50	(1.516)	20		1729520000
26	42.00	(1.654)	20		1729530000
28	45.50	(1.791)	20		1729540000
30	49.00	(1.929)	20		1729550000
32	52.50	(2.067)	20		1729560000
34	56.00	(2.205)	20		1729570000
36	59.50	(2.343)	20		1729580000

Socket connectors with tension clamp connection

B2L 3.5

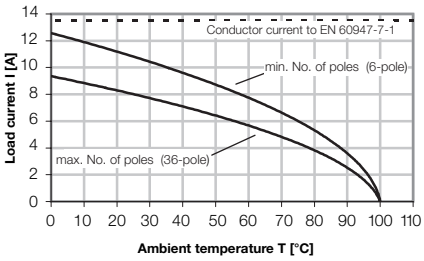


Socket connectors with tension clamp connection system enable quick and simple wiring. These socket connectors can be mounted side by side without losing any poles and therefore represent a high connection density. The socket connectors provide space for labelling and can be coded.

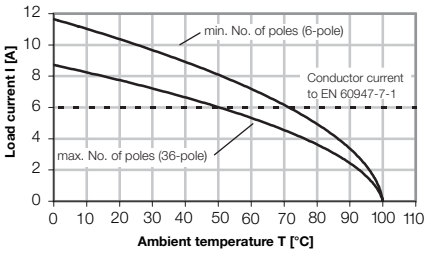
- 0.20 - 1.0 mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

Derating curve

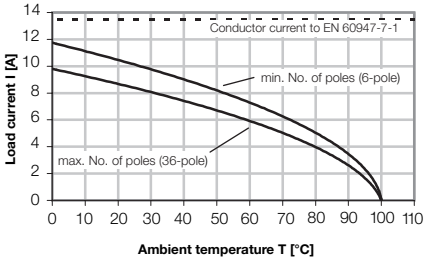
S2L-SMT 3.5/180 / B2L / H05V-K1.0



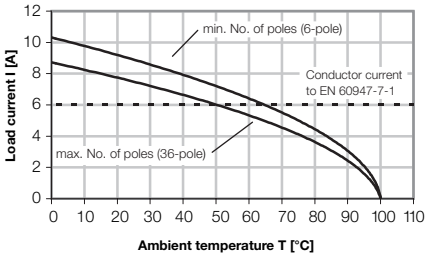
S2L-SMT 3.5/180 / B2L / H05V-K0.5



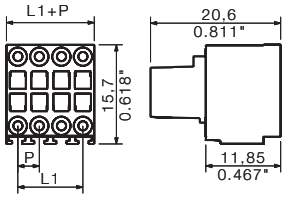
S2L-SMT 3.5/90 / B2L / H05V-K1.0



S2L-SMT 3.5/90 / B2L / H05V-K0.5



B2L 3.5



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08…1		
Solid H05(07) V-U	mm²	0.2…1		
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²	0.2…1		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm	7		
Screwdriver blade	mm	0.4 x 2.5		
according to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	80	125	250
Rated impulse voltage	kV	2.5	2.5	2.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	10		10
AWG conductor		22-18		
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor		28-18		
Material data				
Type of insulating material		PBT		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

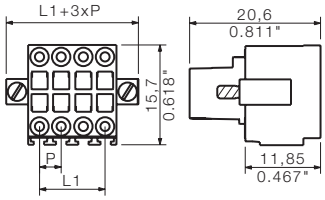
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

Solder pin length					
Colour				**orange**	**black**
Pitch 3.50 mm					
Poles	L1 mm	(inch)	**Qty.**	**Order No.**	**Order No.**
6	7.00	(0.276)	50	**1727560000**	**1727640000**
8	10.50	(0.413)	50	**1727570000**	**1727650000**
10	14.00	(0.551)	50	**1727580000**	**1727660000**
12	17.50	(0.689)	50	**1727590000**	**1727670000**
14	21.00	(0.827)	50	**1727600000**	**1727680000**
16	24.50	(0.965)	50	**1727610000**	**1727690000**
18	28.00	(1.102)	20	**1727620000**	**1727700000**
20	31.50	(1.240)	20	**1727630000**	**1727710000**
22	35.00	(1.378)	20	**1747850000**	**1747930000**
24	38.50	(1.516)	20	**1747860000**	**1747940000**
26	42.00	(1.654)	20	**1747870000**	**1747950000**
28	45.50	(1.791)	20	**1747880000**	**1747960000**
30	49.00	(1.929)	20	**1747890000**	**1747970000**
32	52.50	(2.067)	20	**1747900000**	**1747980000**
34	56.00	(2.205)	20	**1747910000**	**1747990000**
36	59.50	(2.343)	20	**1747920000**	**1748000000**

B2L 3.5F

with flange



Ordering data

Solder pin length

Colour	orange	black

Pitch 3.50 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
6	7.00	(0.276)	50	1748010000	1748170000
8	10.50	(0.413)	50	1748020000	1748180000
10	14.00	(0.551)	50	1748030000	1748190000
12	17.50	(0.689)	50	1748040000	1748200000
14	21.00	(0.827)	50	1748050000	1748210000
16	24.50	(0.965)	50	1748060000	1748220000
18	28.00	(1.102)	20	1748070000	1748230000
20	31.50	(1.240)	20	1748080000	1748240000
22	35.00	(1.378)	20	1748090000	1748250000
24	38.50	(1.516)	20	1748100000	1748260000
26	42.00	(1.654)	20	1748110000	1748270000
28	45.50	(1.791)	20	1748120000	1748280000
30	49.00	(1.929)	20	1748130000	1748290000
32	52.50	(2.067)	20	1748140000	1748300000
34	56.00	(2.205)	20	1748150000	1748310000
36	59.50	(2.343)	20	1748160000	1748320000

Accessories

Possible colors

Additional colours on request

Coding

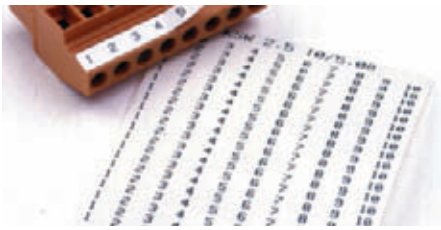
See chapter accessories

Hood

See chapter accessories

Marking strips

See chapter accessories

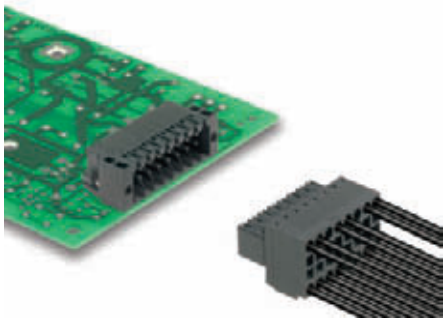


Screwdriver

See chapter accessories
Order No. 9008370000

Socket connectors with tension clamp connection

B2L 3.5LH

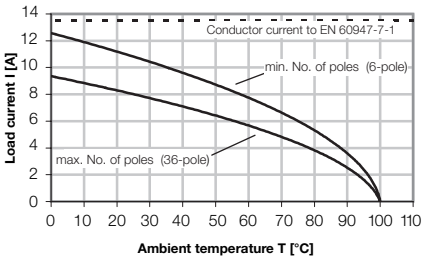


Socket connectors with tension clamp connection system enable quick and simple wiring. These socket connectors can be mounted side by side without losing any poles and therefore represent a high connection density. The release lever simplifies the separation of the connection in confined spaces. The socket connectors provide space for labelling and can be coded.

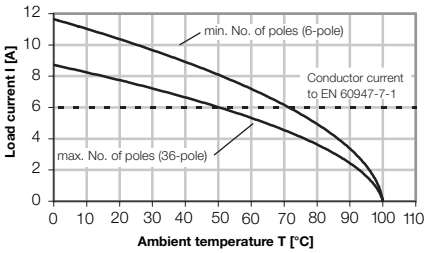
- 0.20 - 1.0 mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

Derating curve

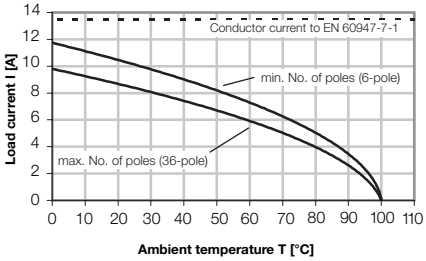
S2L-SMT 3.5/180 / B2L / H05V-K1.0



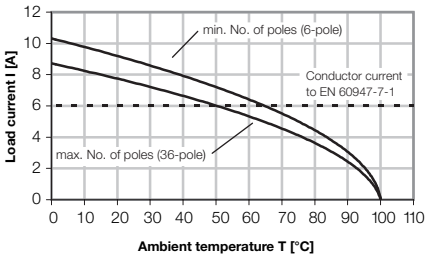
S2L-SMT 3.5/180 / B2L / H05V-K0.5



S2L-SMT 3.5/90 / B2L / H05V-K1.0

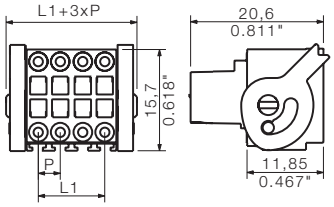


S2L-SMT 3.5/90 / B2L / H05V-K0.5



B2L 3.5LH

with release lever



Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08…1		
Solid H05(07) V-U	mm²	0.2…1		
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²	0.2…1		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm	7		
Screwdriver blade	mm	0.4 x 2.5		
according to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current at ambient temperature		**20°C**		**40°C**
	A	10		9
Overvoltage category		**III**	**III**	**II**
Pollution severity		**3**	**2**	**2**
Rated voltage	V	80	125	250
Rated impulse voltage	kV	2.5	2.5	2.5
UL 1059 rated data - E60693		**B**	**C**	**D**
Rated voltage	V	150		150
Rated current	A	10		10
AWG conductor		22-18		
CSA C22.2 rated data - LR12400 B		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor		28-18		
Material data				
Type of insulating material		PBT		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		

Information

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Ordering data

Solder pin length					
Colour				**orange**	**black**
Pitch 3.50 mm					
Poles	L1 mm	(inch)	**Qty.**	**Order No.**	**Order No.**
6	7.00	(0.276)	50	**1748330000**	**1748490000**
8	10.50	(0.413)	50	**1748340000**	**1748500000**
10	14.00	(0.551)	50	**1748350000**	**1748510000**
12	17.50	(0.689)	50	**1748360000**	**1748520000**
14	21.00	(0.827)	50	**1748370000**	**1748530000**
16	24.50	(0.965)	50	**1748380000**	**1748540000**
18	28.00	(1.102)	20	**1748390000**	**1748550000**
20	31.50	(1.240)	20	**1748400000**	**1748560000**
22	35.00	(1.378)	20	**1748410000**	**1748570000**
24	38.50	(1.516)	20	**1748420000**	**1748580000**
26	42.00	(1.654)	20	**1748430000**	**1748590000**
28	45.50	(1.791)	20	**1748440000**	**1748600000**
30	49.00	(1.929)	20	**1748450000**	**1748610000**
32	52.50	(2.067)	20	**1748460000**	**1748620000**
34	56.00	(2.205)	20	**1748470000**	**1748630000**
36	59.50	(2.343)	20	**1748480000**	**1748640000**

Accessories

Possible colors

Additional colours on request

Coding

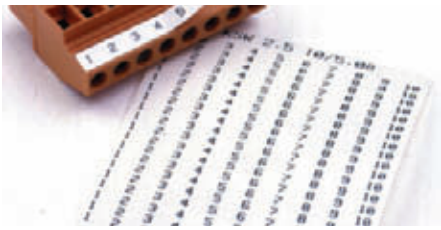
See chapter accessories

Hood

See chapter accessories

Marking strips

See chapter accessories



Screwdriver

See chapter accessories
Order No. 9008370000

LH release lever

plugged in

released

In confined installations it is often difficult to gain access to and grab the plug-in connectors.
In order to be able to separate male and female connectors easily, Weidmüller has developed special connectors with a release lever. The release lever has to be braced against a surface in order to operate properly. This is achieved by using male connectors with a fixed flange, or devices with a suitably designed front panel.
The lever can be operated either by hand or with a screwdriver.