

Powermate Range – Pitch 7.62

Pin headers

PCB connection



Solder connection

SV 7.62/90

500 V / 43 A



1.2

SV 7.62/180

500 V / 41 A



1.4

SV 7.62/270

500 V / 43 A



1.6

Socket connectors

Cable connection



Clamping yoke connection

BVZ 7.62/180

500 V / 43 A

6 mm² / AWG 10

1.8



Tension clamp connection

BVZF 7.62/180

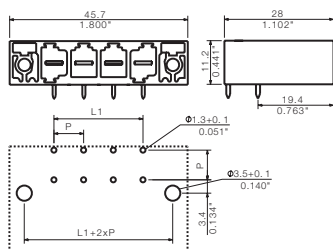
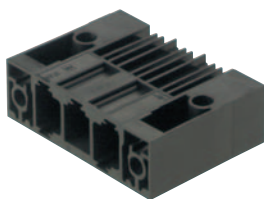
500 V / 38 A

6 mm² / AWG 10

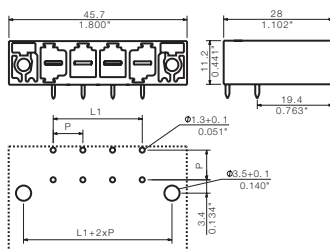
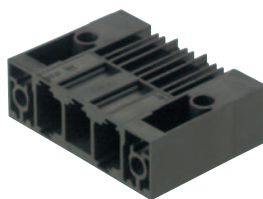
I.10

Powermate Range Pitch 7.62

Interlock flanges



Interlock flanges with inserted square nuts



Coding element

See page L.26
Part no. 1824410000



Solder pin length	3.5 mm
Colour	black

[illegible]

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1822390000
3	15.24	(0.600)	100		1822400000
4	22.86	(0.900)	100		1822410000
5	30.48	(1.200)	50		1822420000
6	38.10	(1.500)	50		1822430000
7	45.72	(1.800)	50		1822440000
8	53.34	(2.100)	50		1822450000
9	60.96	(2.400)	50		1822460000
10	68.58	(2.700)	50		1822470000
11	76.20	(3.000)	50		1822480000
12	83.82	(3.300)	50		1822490000

Solder pin length	3.5 mm
Colour	black

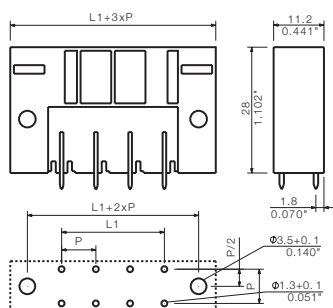
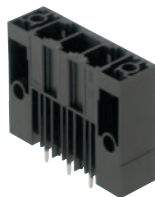
[illegible]

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1852610000
3	15.24	(0.600)	100		1852620000
4	22.86	(0.900)	100		1852630000
5	30.48	(1.200)	50		1852640000
6	38.10	(1.500)	50		1852650000
7	45.72	(1.800)	50		1852660000
8	53.34	(2.100)	50		1852670000
9	60.96	(2.400)	50		1852680000
10	68.58	(2.700)	50		1852690000
11	76.20	(3.000)	50		1852700000
12	83.82	(3.300)	50		1852710000

Weidmüller

Powermate Range Pitch 7.62

Interlock flanges with inserted square nuts



Solder pin length	3.5 mm
Colour	black

[illegible]

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1852870000
3	15.24	(0.600)	100		1852880000
4	22.86	(0.900)	100		1852890000
5	30.48	(1.200)	50		1852900000
6	38.10	(1.500)	50		1852910000
7	45.72	(1.800)	50		1852920000
8	53.34	(2.100)	50		1852930000
9	60.96	(2.400)	50		1852940000
10	68.58	(2.700)	50		1852950000
11	76.20	(3.000)	50		1852960000
12	83.82	(3.300)	50		1852970000

Accessories

See page L.26
Part no. 1824410000

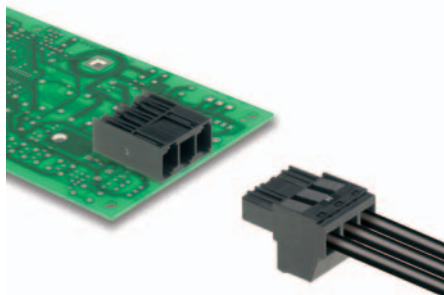


See page L.27
Part no. 1853940000



Solder connection pin headers

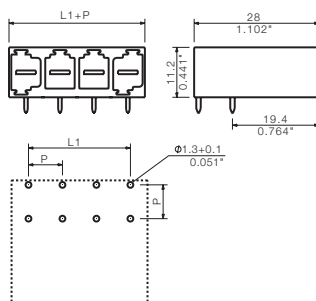
SV 7.62/270



- 500 V (IEC) / 300 V (UL)
- 43 A (IEC) / 31 A (UL)

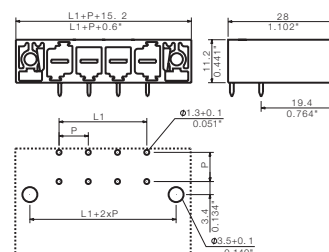
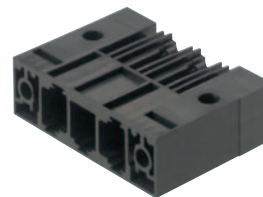
SV 7.62/270G

without flanges



SV 7.62/270F

Interlock flanges



Technical data

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)

Clamping range, max.	mm ²
Solid H05(07) V-U	mm ²
Stranded H07 V-R	mm ²
Flexible H05(07) V-K	mm ²
Flexible with ferrule	mm ²
Ferrule with plastic collar	mm ²
Stripping length	mm

**Rated current
at ambient temperature**

at ambient temperature	A	43.0	38.0
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Overvoltage category

Pollution severity	3	2	2
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Rated voltage:

Rated voltage	V	500	630	800
Rated impulse voltage	kV	6.0	6.0	6.0

UL 1059 rated data - E60693

Rated voltage	V	300	300	600
Rated current	A	21.0	21.0	5.0

CSA C22.2 rated data - LR12400 B

Rated voltage	V	300	300	600
Rated current	A	31.0	31.0	5.0

Material data

Type of insulating material	PBT GF
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Contact plating	tin plated

Information

- Additional colours on request
- Rated current refers to rated cross-section and min. number of poles
- The data stated under CSA refers to cUL-Approval - E60693
- Drawing information P = Pitch

Ordering data

Solder pin length	3.5 mm
Colour	black

[illegible]

Pitch 7.62 mm

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1822750000
3	15.24	(0.600)	100		1822760000
4	22.86	(0.900)	100		1822770000
5	30.48	(1.200)	50		1822780000
6	38.10	(1.500)	50		1822790000
7	45.72	(1.800)	50		1822800000
8	53.34	(2.100)	50		1822810000
9	60.96	(2.400)	50		1822820000
10	68.58	(2.700)	50		1822830000
11	76.20	(3.000)	50		1822840000
12	83.82	(3.300)	50		1822850000

Ordering data

Solder pin length	3.5 mm
Colour	black

[illegible]

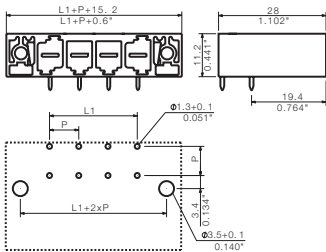
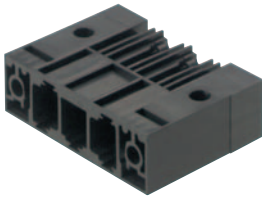
Pitch 7.62 mm

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1822860000
3	15.24	(0.600)	100		1822870000
4	22.86	(0.900)	100		1822880000
5	30.48	(1.200)	50		1822890000
6	38.10	(1.500)	50		1822900000
7	45.72	(1.800)	50		1822910000
8	53.34	(2.100)	50		1822920000
9	60.96	(2.400)	50		1822930000
10	68.58	(2.700)	50		1822940000
11	76.20	(3.000)	50		1822950000
12	83.82	(3.300)	50		1822960000

Solder connection pin headers

SV 7.62/270SF

Interlock flanges with inserted square nuts



Accessories

Coding element

See page L.26
Part no. 1824410000



Ordering data

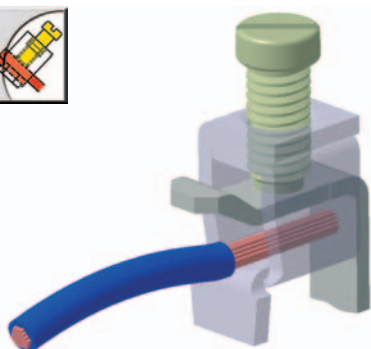
Solder pin length	3.5 mm
Colour	black

Pitch 7.62 mm

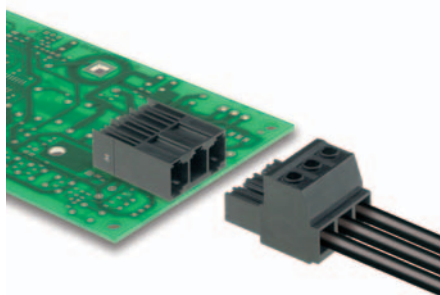
Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1852760000
3	15.24	(0.600)	100		1852770000
4	22.86	(0.900)	100		1852780000
5	30.48	(1.200)	50		1852790000
6	38.10	(1.500)	50		1852800000
7	45.72	(1.800)	50		1852810000
8	53.34	(2.100)	50		1852820000
9	60.96	(2.400)	50		1852830000
10	68.58	(2.700)	50		1852840000
11	76.20	(3.000)	50		1852850000
12	83.82	(3.300)	50		1852860000

Articles with coloured order number are kept permanently in stock at the central warehouse in Germany.
Delivery times see page X.2

Clamping yoke connection socket connectors

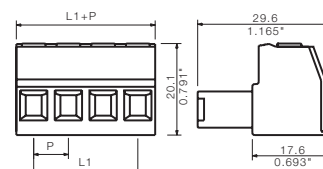


BVZ 7.62



BVZ 7.62/180

without flanges



The screw clamping yoke is the most popular and widely used cable connection method worldwide. The security of the cable is vital for every application, and the Weidmueller clamping yoke design has proven its reliability for millions of connections in hundreds of thousands of applications over the last 40 years.

The best and most reliable cable connection mechanisms use the best materials for the mechanical and electrical functions: steel parts for strength and security, brass or copper parts for conductivity.

The Weidmueller clamping yoke and screw are made from hardened steel and are zinc-chrome plated to prevent corrosion.

The current carrying bar/pins are made from a tin plated copper alloy.

High contact force is only effective if it is continuous.

When the clamping screw is turned, the Weidmueller clamping yoke rises in the component housing until the cable is firmly held between the current-bar and clamping yoke.

Further turning of the screw achieves the optimum torque level according to DIN EN 60 999. At the point of maximum permitted torque, the upper thread-overlap of the yoke opens causing a locking action to be exerted on the screw.

A maintenance-free and continuous torque is thus achieved.

- 0.32 – 6 mm² (IEC) / 22 – 10 AWG (UL)
- 500 V (IEC) / 300 V (UL)
- 43 A (IEC) / 31 A (UL)

Technical data

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)

Clamping range, max.	mm ²	0.32...6.00
Solid H05(07) V-U	mm ²	0.50...6.00
Stranded H07 V-R	mm ²	
Flexible H05(07) V-K	mm ²	0.50...6.00
Flexible with ferrule	mm ²	0.50...6.00
Ferrule with plastic collar	mm ²	0.50...4.00
Stripping length	mm	8.0

Rated current at ambient temperature

	20°C	40°C
A	43.0	38.0

Overvoltage category

	III	III	II
Pollution severity	3	2	2

Rated voltage	V	500	630	800
Rated impulse voltage	kV	6.0	6.0	6.0

UL 1059 rated data - E60693

Rated voltage	V	300	300	600
Rated current	A	31.0	31.0	5.0
AWG conductor		22-10		

CSA C22.2 rated data - LR12400 B

Rated voltage	V	300	300	600
Rated current	A	31.0	31.0	5.0
AWG conductor		22-10		

Material data

Type of insulating material	PBT
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Contact plating	tin plated

Information

- Additional colours on request
- Rated current refers to rated cross-section and min. number of poles
- ferrule without plastic collar acc. to DIN 46228/1
- Ferrule with plastic collar acc. to DIN 46228/4
- The data stated under CSA refers to cUL-Approval - E60693
- Drawing information P = Pitch

Ordering data

Solder pin length

Colour	black
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Pitch 7.62 mm

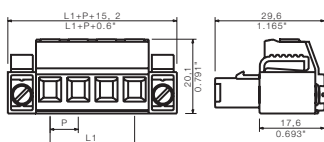
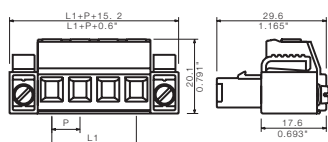
Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1821520000
3	15.24	(0.600)	100		1821530000
4	22.86	(0.900)	100		1821540000
5	30.48	(1.200)	50		1821550000
6	38.10	(1.500)	50		1821560000
7	45.72	(1.800)	50		1821570000
8	53.34	(2.100)	50		1821580000
9	60.96	(2.400)	50		1821590000
10	68.58	(2.700)	50		1821600000
11	76.20	(3.000)	50		1821610000
12	83.82	(3.300)	50		1821620000

Powermate Range Pitch 7.62

Interlock flanges without screws



Interlock flanges with screws



Coding element

See page L.26
Part no. 1824410000



Screwdriver

See page L 22
Part no. 9008390000

Solder pin length

Colour

black

[illegible]

Poles	L1 mm (inch)	Qty.	Order no.	Order no.
2	7.62 (0.300)	100		1821630000
3	15.24 (0.600)	100		1821640000
4	22.86 (0.900)	100		1821650000
5	30.48 (1.200)	50		1821660000
6	38.10 (1.500)	50		1821670000
7	45.72 (1.800)	50		1821680000
8	53.34 (2.100)	50		1821690000
9	60.96 (2.400)	50		1821700000
10	68.58 (2.700)	50		1821710000
11	76.20 (3.000)	50		1821720000
12	83.82 (3.300)	50		1821730000

Solder pin length

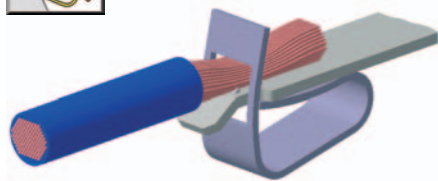
Colour

black

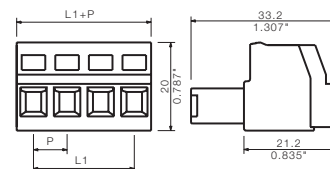
[illegible]

Poles L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62 (0.300)	100		1853010000
3	15.24 (0.600)	100		1853020000
4	22.86 (0.900)	100		1853030000
5	30.48 (1.200)	50		1853040000
6	38.10 (1.500)	50		1853050000
7	45.72 (1.800)	50		1853060000
8	53.34 (2.100)	50		1853070000
9	60.96 (2.400)	50		1853080000
10	68.58 (2.700)	50		1853090000
11	76.20 (3.000)	50		1853100000
12	83.82 (3.300)	50		1853110000





without flanges



- 0.32 – 6 mm² (IEC) / 22 – 10 AWG (UL)
- 500 V (IEC) / 300 V (UL)
- 38 A (IEC) / 27 A (UL)

Rated data acc. to IEC 664-1 / VDE 0110 (4.97)

Information

- Additional colours on request
- Rated current refers to rated cross-section and min. number of poles
- ferrule without plastic collar acc. to DIN 46228/1
- Ferrule with plastic collar acc. to DIN 46228/4
- The data stated under CSA refers to cUL-Approval - E60693
- Drawing information P = Pitch

Solder pin length

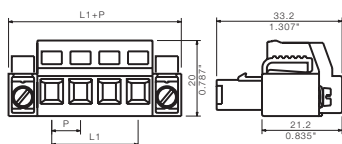
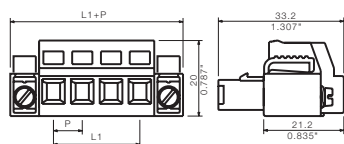
Colour	black
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[illegible]

Poles	L1 mm (inch)	Qty.	Order no.	Order no.
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2	7.62	(0.300)	100	1821740000
3	15.24	(0.600)	100	1821750000
4	22.86	(0.900)	100	1821760000
5	30.48	(1.200)	50	1821770000
6	38.10	(1.500)	50	1821780000
7	45.72	(1.800)	50	1821790000
8	53.34	(2.100)	50	1821800000
9	60.96	(2.400)	50	1821810000
10	68.58	(2.700)	50	1821820000
11	76.20	(3.000)	50	1821830000
12	83.82	(3.300)	50	1821840000

Powermate Range Pitch 7.62



See page L.26
Part no. 1824410000



See page L 22
Part no. 9008330000



black

[illegible]

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1821850000
3	15.24	(0.600)	100		1821860000
4	22.86	(0.900)	100		1821870000
5	30.48	(1.200)	50		1821880000
6	38.10	(1.500)	50		1821890000
7	45.72	(1.800)	50		1821900000
8	53.34	(2.100)	50		1821910000
9	60.96	(2.400)	50		1821920000
10	68.58	(2.700)	50		1821930000
11	76.20	(3.000)	50		1821940000
12	83.82	(3.300)	50		1821950000

black

[illegible]

Poles	L1 mm	(inch)	Qty.	Order no.	Order no.
2	7.62	(0.300)	100		1853190000
3	15.24	(0.600)	100		1853200000
4	22.86	(0.900)	100		1853210000
5	30.48	(1.200)	50		1853220000
6	38.10	(1.500)	50		1853230000
7	45.72	(1.800)	50		1853240000
8	53.34	(2.100)	50		1853250000
9	60.96	(2.400)	50		1853260000
10	68.58	(2.700)	50		1853270000
11	76.20	(3.000)	50		1853280000
12	83.82	(3.300)	50		1853290000

1.11