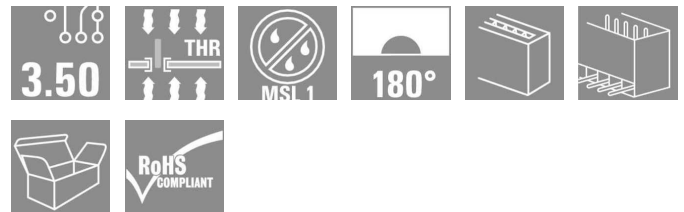
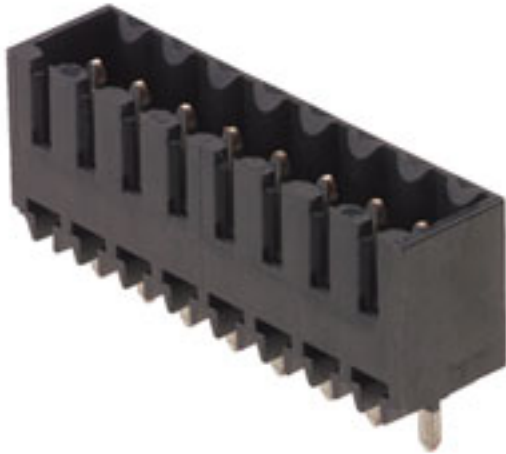


**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



High-temperature-resistant male header, 3.50 mm pitch.

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

General ordering data

Type	SL-SMT 3.50/03/180G 3.2SN BK BX
Order No.	1842330000
Version	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248353675
Qty.	100 pc(s).
Product data	IEC: 320 V / 15 A UL: 300 V / 10 A
Packaging	Box

**OMNIMATE Signal - series BL/SL 3.50
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Weidmüller Interface GmbH & Co. KG
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Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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Technical data**Dimensions and weights**

Net weight	1.14 g
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System parameters

Product family		Mounting onto the PCB	
Product family	OMNIMATE Signal - series BL/SL 3.50	Reflow solder connection	
Outgoing elbow	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	3
Solder pin length (l)	3.2 mm	Solder pin length tolerance	0 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Plugging cycles	25	Outside diameter of solder pad	2.3 mm
Can be coded	Yes	Number of solder pins per pole	1
Template aperture diameter	2.1 mm	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	7 mm
L1 in inches	0.276 inch	Insulation resistance	≥ 10 ⁸ Ω
Touch-safe protection acc. to DIN VDE 0470	IP 10	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Volume resistance	4.50 mΩ		

Material data

Insulating material	LCP GF	Moisture Level (MSL)	1
Colour	Black	Insulating material group	IIIa
UL 94 flammability rating	V-0	CTI	≥ 175
Contact material	CuSn	Layer structure of solder connection	2-3 μm Ni / 5-7 μm Sn glossy
Layer structure of plug contact	2-3 undefined Ni / 5-7 undefined Sn glossy	Contact surface	tinned
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	100 °C
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %		

Rating data acc. to IEC 60664-1 / IEC 61984

Rated current, min. no. of poles (Ta = 20°C)	15 A	Rated current, max. no. of poles (Ta = 20°C)	12 A
Rated current, min. no. of poles (Ta = 40°C)	13 A	Rated current, max. no. of poles (Ta = 40°C)	10 A
Rated voltage for surge voltage class / pollution degree III/3	160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data**Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

200039-1176845

Rated voltage (Use group B)	300 V
Rated current (use group B)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (use group D)	300 V
Rated current (use group D)	10 A

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (use group B)	300 V
Rated current (use group B)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (use group D)	300 V
Rated current (use group D)	10 A

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02

Notes

Notes

- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles
- P on drawing = 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.

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

Approvals

Approvals



ROHS

Conform

Data sheet**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data**Downloads**

EDA Layout Library (Mentor Graphics
Expedition, Mentor Graphics Pads,
Altium Designer)

[Select your download](#)

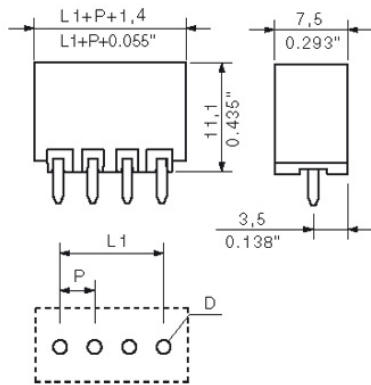
CAD Library (P-CAD Format - ASCII) [SL-SMT.zip](#)

CAD Library (P-CAD Format - Standard) [SL-SMT.zip](#)

[3-D model](#)

Data sheet**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Mating connector (conditionally pluggable)
BL 3.50/90


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/90 SN BK BX	1638790000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276331	100 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/03/90 SN OR BX	1638560000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276096	174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

BLIDCB 3.5F


Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLIDCB 3.50/03/-F SN OR BX	1751460000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174393	10 pc(s).	IEC: 250 V / 6 A / 0.35 - 0.5 mm ² UL: 300 V / 7 A / AWG 22 - AWG 20	Box
This article will no longer be available in the future.	2016-07-08T00:00:00+02:00	BLIDCB 3.50/03/-F SN BK BX	1770750000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal,	4032248174539	10 pc(s).

Creation date February 19, 2016 3:16:42 PM CET

Catalogue status 22.01.2015 / We reserve the right to make technical changes.

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**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

Clamping range,
rated connection,
max.: 0.5 mm²,
Box

BL 3.50/270F



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/270F SN BK BX	1640170000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277734	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/03/270F SN OR BX	1639940000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277499	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

BL 3.50/270



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/270 SN BK BX	1639710000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277260	174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

Data sheet

**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)

BL 3.50/03/270 SN OR BX	1639480000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190277031 174 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
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BL 3.50/180LH



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BL 3.50/03/180LH SN BK BX	1687890000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190853440	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14
						320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14
						320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14

**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

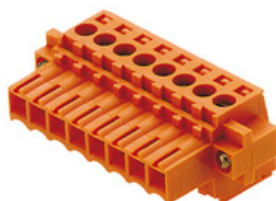
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (conditionally pluggable)
BL 3.50/180


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/180 SN OR BX	1597370000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190169909	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/03/180 SN BK BX	1615680000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190058906	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

BL 3.50/180F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/180F SN BK BX	1615790000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190062132	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/03/180F SN OR BX	1606650000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping	4008190123062	100 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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Mating connector (conditionally pluggable)

range, rated connection,
max.: 1.5 mm², Box

BLIDCB 3.5F BS



Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2010-12-31	BLIDCB 3.50/03-FBS SN BK BX	1836450000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248339051	100 pc(s).	IEC: 320 V / 6 A / 0.2 - 0.5 mm ² UL: 300 V / 7 A / 22 AWG - 20 AWG

**OMNIMATE Signal - series BL/SL 3.50
SL-SMT 3.50/03/180G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
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Mating connector (conditionally pluggable)

BLIDCB 3.5



Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2016-07-08T00:00:00+02:00	BLIDCB 3.50/03/- SN OR BX	1751390000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174317	10 pc(s)
	2014-05-20T00:00:00+02:00	BLIDCB 3.50/03/- SN BK BX	1770680000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 6, 3, 90°/270°, IDC terminal, Clamping range, rated connection, max.: 0.5 mm ² , Box	4032248174461	10 pc(s)
						IEC: 250 V / 7 A / AWG 22 - AWG 20

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Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Mating connector (conditionally pluggable)
BL 3.50/90F

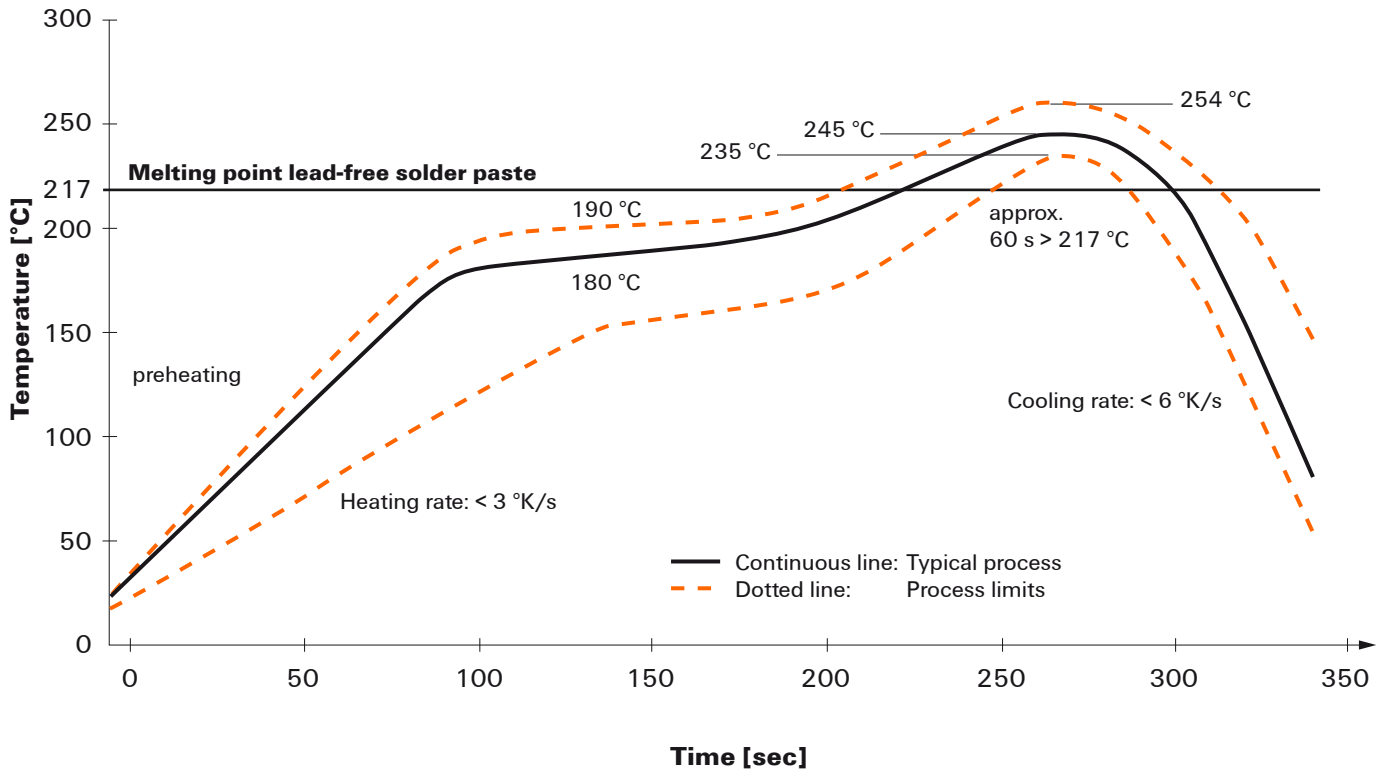

Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/03/90F SN BK BX	1639250000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276799	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/03/90F SN OR BX	1639020000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4008190276560	108 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm ² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is ‚activated‘. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.

Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
 Klängenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.


Addresses worldwide


Let's connect.


- AE United Arab Emirates**
Weidmüller Middle East FZE
Warehouse Q3-79
SAIF-Zone
P.O. BOX 8591
Sharjah
Telephone number +971 65572723
Fax number +971 65572724
wme.info@weidmueller.com
- AO Angola**
Please contact
Phambili Interface
South Africa
- AR Argentina**
CPI SA
Bauness 2660
C1431DOF Buenos Aires
Telephone number +54 11 4523 8008
Fax number +54 11 4522 0546
info@cpi.com.ar
www.cpi.com.ar
- AT Austria**
Weidmüller GmbH
IZ NOE Süd Straße 2b, Obj
M 59
2355 Wiener Neudorf
Telephone number +43 2236 67080
Fax number +43 2236 6708-899
office.at@weidmueller.com
www.weidmueller.com
- AU Australia**
Weidmüller Pty. Ltd.
PO BOX 6944
Huntingwood 2148
Huntingwood Drive 43
Huntingwood NSW 2148
Telephone number +61 2 9671 9999
Fax number +61 2 9671 9911
info@weidmuller.com.au
www.weidmuller.com.au
- AZ Azerbaijan**
Representative Office
Weidmüller Interface
Demirchi Tower, 4th floor
37, Khojali ave.
AZ 1025 Baku
Telephone number +994 12 488 80 36
Fax number +994 12 488 80 37
rashad.mahmudov@weidmueller.com
- BA Bosnia and Herzegovina**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
Serbia
or
BIG electric d.o.o
Mladena Stojanovića 117A
78000 Banja Luka
Telephone number +387 51926277
Fax number +387 51926277
bigelectric@blic.net
www.bigelectric.ba
- BE Belgium**
Weidmüller Benelux B. V.
Mechelsesteenweg 519 bus
6 an 7
1930 Nossegem
Telephone number +32 2 752 40 70
Fax number +32 2 751 36 06
info@weidmueller.be
www.weidmueller.be
- BG Bulgaria**
Weid-Bul EOOD
Bul. "Kliment Ohridski" 13
1756 Sofia
Telephone number +359 2 963 2560
Fax number +359 2 963 1098
sofia@weidbul.com
www.weidbul.com
- BH Bahrain**
Khayber Trading Company
P.O Box 1976
Manama
Telephone number +973 720747
Fax number +973 720331
khayber@batelco.com.bh
- BR Brazil**
Weidmüller Conexel do Brasil
Conexões Elétricas Ltda.
Av. Presidente Juscelino, 642
- Piraporinha
Diadema, São Paulo
09950-370
Telephone number +55 (11) 4366-9600
Fax number +55 (11) 4362-1677
vendas@weidmueller.com.br
www.weidmueller.com.br
- BW Botswana**
Please contact
Phambili Interface
South Africa
- BY Belarus**
TECHNIKON Ltd.
Nezavisimosti pr. 177-9
220125 Minsk
Telephone number +375 17 393-11-77
Fax number +375 17 3930080
wm@technikon.by
- CA Canada**
W Interconnections Canada
Inc.
10 Spy Court
Markham Ontario L3R 5H6
Telephone number +1 (905) 475-1507 Ext. 9836
Fax number +1 (905) 475-2798
support@weidmuller.ca
www.weidmuller.ca
- CG Congo**
Please contact
Phambili Interface
South Africa
- CH Switzerland**
Weidmüller Schweiz AG
Rundbuckstraße 2
82 12 Neuhausen am
Rheinfall SH
Telephone number +41 52 674 07 07
Fax number +41 52 674 07 08
info@weidmueller.ch
www.weidmueller.ch
- CL Chile**
ATS - INTECH
María Luisa Santander 0475
Santiago
Providencia 7500859
Telephone number +56 2 341 1271
Fax number +56 2 341 1275
felipe@atsintech.com
www.atsintech.com
CPI CHILE LTDA
Av. Presidente Frei Montalva
6001, 47 complejo el cortijo
Santiago - Conchalí
Telephone number +562 963 8440
Fax number +562 963 8440
cpi@cpichile.cl
www.cpichile.cl
- CN China**
Weidmüller Interface
(Shanghai) Co. Ltd.
100 Yutong Road
25 F, BM Intercontinental
Business Center
200070 Shanghai
Telephone number +86 21-22195008
Fax number +86 21-22195009
customer.hotline@weidmueller.com.cn
www.weidmueller.com.cn
- CO Colombia**
Automatización Avanzada
S. A.
Carrera 97 No., 24 c - 23
Bodega 4
110911 Bogotá-D.C.
Telephone number +57 (1) 547-8510
Fax number +57 (1) 422-3044
comercial@automatizacionavanzada.com
www.automatizacionavanzada.com
- CR Costa Rica**
ELVATRON S. A.
la Uruca 400 Norte Banco
Costa Rica
San Jose Costa Rica
Telephone number +506 2961-060
Fax number +506 5200-609
dirk.haase@elvatron.com
www.elvatron.com
- CZ Czech Republic**
Weidmüller s.r.o.
Lomnického 5/1705
140 00 Praha 4
Telephone number +420 244 001 400
Fax number +420 244 001 499
office@weidmueller.cz
www.weidmueller.cz
- DE Germany**
Weidmüller GmbH & Co. KG
Ohmstraße 9
32758 Detmold
Postfach 30 54
32720 Detmold
Telephone number +49 5231 1428-0
Fax number +49 5231 14-292083
weidmuller@weidmueller.de
www.weidmueller.de
- DK Denmark**
Weidmüller Danmark
Vallensbækvej 18A
2605 Brøndby
Telephone number +45 27747800
kundeservice@weidmuller.dk
www.weidmuller.dk
- DZ Algeria**
SARL INTER ELECTRIC
1a Angles des Rues Okba Ibn
Nafaa et Hassi Beida
2300 Annaba
Telephone number
Fax number
contact@inter-electric.com
- EC Ecuador**
Elsystec S. A., Electricidad
Sistemas y Tecnología
Vasco de Contreras N35-251
y Manosca
Quito - Pichincha
Telephone number +593 22456510
Fax number +593 22456755
Elsystec@uio.satnet.net
- EE Estonia**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
Latvia
or
Soots Interface OÜ
Pärnu mnt 142
11317 Tallinn
Telephone number +372 609 6933
Fax number
info@sootsinterface.ee
www.sootsinterface.ee
- EG Egypt**
Standard Electric (OMEGA)
1, Abdelhamid Badawy Street
Heliopolis
Cairo
Telephone number +202 21805600
stdelec@rite.com
- ES Spain**
Weidmüller, S. A.
Narcís Monturiol 11-13, Pol.
Ind. Sudoeste
8960 Sant Just
Desvern - Barcelona
Telephone number +34 934 803 386
Fax number +34 933 718 055
weidmuller@weidmuller.es
www.weidmuller.es
- FI Finland**
Weidmüller Suomi,
Weidmüller Aktiebolagetin
sivuliike
Koy Plaza Vivace
Äyritie 8C
FI 1510 Vantaa
Telephone number +358 20 7351300
Fax number +358 800 114 667
asiakaspalvelu@weidmuller.fi
www.weidmuller.fi
- FR France**
Weidmüller E. U. R. L.
12, Chaussée Jules César
BP 263 Osny
95523 Cergy-Pontoise Cedex
Telephone number +33 1 34 24 55 00
Fax number +33 1 34 24 55 01
mail@weidmuller.fr
- GB Great Britain**
Weidmüller Ltd.
Klippon House
Centurion Court Office Park,
Meridian East, Meridian
Business Park
Leicester
LE19 1TP
Telephone number +44 116 282 3470
Fax number +44 116 289 3582
marketing@weidmuller.co.uk
www.weidmuller.co.uk
- GE Georgia**
Please contact
our Representative Office
Weidmüller Interface
Azerbaijan.
- GH Ghana**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
South Africa.
- GR Greece**
G.A. Solutions
Ippokratous 11 Metamorfosi
144 52 Athen
Telephone number +30 210 2823233
Fax number +30 210 2823233
info@weidmuller.gr
www.weidmuller.gr
- GT Guatemala**
Prestelectro, Prestegard
Electro, S.A.
Avenida Petapa 44-22,
Zona 12
Guatemala City
Telephone number +502 2442-3346
Fax number +502 2476-8945
ventas@prestelectro.com
- HK Hong Kong**
Weidmüller (Hong Kong)
Limited Co. Ltd.
Unit 1617, Metropolis Tower
No. 10 Metropolis Drive,
Hunghom, Kowloon
Telephone number +852 3154 8088
Fax number +852 31548099
Info-hk@weidmueller.com.hk
- HR Croatia**
ElektroPARTNER d.o.o.
Slavonska avenija 24/6
HR-10000 Zagreb
Telephone number +385 (1) 6184 793
Fax number +385 (1) 6184 795
elektropartner@zg.t-com.hr
www.elektropartner.hr
- HU Hungary**
Weidmüller Kereskedelmi Kft.
Budapest
Gubacsi út 6.
1097
Telephone number +36 1 382 7700
Fax number +36 1 382 7701
info@weidmueller.hu
www.weidmueller.hu
- ID Indonesia**
PT. Nego Electrindo
Ruko Mega Grosir Cempaka
Mas Blok I No. 20 – 22
Jakarta 10640
Telephone number +62 21 42882255
Fax number +62 21 42882266
sales@negoelectrindo.co.id
- IE Ireland**
Please contact
Weidmüller Ltd.
Great Britain
- IL Israel**
A. U. Shay Ltd.
23/25, Embarr Street
49222 Petach-Tikva
P.O. Box 1 00 49
49222 Petach-Tikva
Telephone number +972 3-923-3601
Fax number +972 3-923-4601
shay@uriel-shay.com
www.uriel-shay.com
ATEKA Ltd.
4, Ha Tavor lane Industrial
area Segula
49691 Petach-Tikva
P.O. Box 4710
Petach-Tikva
Telephone number +972 73-200-1311
Fax number +972 3-924 4245
marketing@ateka.co.il
www.ateka.co.il
- IN India**
Representative Office
Weidmüller Electronics India
Pvt. Ltd.
12th Lane North Avenue, Opp
Joggers Park,
Kalyani Nagar, Pune
411 006
Telephone number +91 20-41290090
wmi@weidmueller.in
www.weidmueller.com
- IS Iceland**
Samey Automation Center
Lýngas 13
210 Garoabaer
Telephone number +354 510 5200
Fax number +354 5 10 5201
Samey@samey.is
www.samey.is
- IT Italy**
Weidmüller S. r.l.
Via Albert Einstein 4
20092 Cinisello
Balsamo Milano
Telephone number +39 02 660681
Fax number +39 02 6124945
weidmuller@weidmuller.it
www.weidmuller.it
- JM Jamaica**
Please contact
W Interconnections Inc.
United States
- JO Jordan**
Trans Jordan for Electro
PO Box 33 06 07
Amman
Telephone number +962 6 533 2020
Fax number +962 6 533 5800
transjordan@batelco.jo



You can find all Weidmüller addresses and your local contact on the internet at: www.weidmuller.com/countries

Sales company 

Representation abroad 

without representation abroad 

Let's connect.

- JP Japan**
Nihon Weidmüller Co. Ltd.
Sphere Tower Tennoz 2-2-8
Higashi-Shinagawa,
Shinagawa-ku
Tokyo
140-0002
Telephone number +81 3
6711 5300
Fax number +81 3 6711
5333
weidmullerjapan@weidmuller.
co.jp
www.weidmuller.co.jp
- KE Kenya**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
South Africa.
- KG Kyrgyzstan**
Please contact
our Representative Office
Weidmüller Interface
Azerbaijan.
- KR Korea**
Weidmüller Korea Co. Ltd.
9th floor
429, Teheran-ro, Gangnam-Gu
Seoul 135-721
Telephone number +82
2-516-0003
Fax number +82 2-516-0090
info@weidmuller.co.kr
www.weidmuller.co.kr
- KW Kuwait**
Kana Controls General Trading
& Contracting Co. W. L. L.
Al Rai Industrial Area, Plot
28-30, St. 31
13016 Safat
B.P. 25593
Telephone number +965
4741373
Fax number +965 4741537
info@kanacontrols.com
- KZ Kazakhstan**
Please contact
Weidmüller Group
Russia
- LB Lebanon**
Progress Engineering &
Trading Enterprises
Al Nahr Street
Beirut 11-1111
Telephone number +961 1
444 664
Fax number +961 1 561 880
progress@inco.com.lb
- LT Lithuania**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
Latvia

or
ELEKTROS IRANGA
Tinklu g. 29 a
LT-5319 Panevezys
Telephone number +370 (45)
582 828
Fax number
info@eliranga.lt
- LU Luxembourg**
Please contact
Weidmüller Benelux B. V.
Netherlands
- LV Latvia**
SIA Abi4
Daugavgrivas 31b
Rīga, LV-1007
Telephone number +371 674
70999
Fax number +371 674
24562
abi_4@tvnet.lv

Representative Office
Weidmüller Interface GmbH
& Co. KG
Udens str. 12-118
Rīga, LV-1007
Telephone number +371
29254766
Fax number +371 674
65637
lgonis.rudaks@weidmuller.
com
www.weidmuller.com
- MA Morocco**
Sofimed
137, Bd Moulay Ismail Roches
Noires
20290 Casablanca
Telephone number
Fax number
contact@sofimedmaroc.com
- MD Moldova**
BERHORD A & D srl
79/1, str. Milescu Spartaru
MD-2075 Chisinau
Moldova
Telephone number +373 (22)
815002
Fax number +373 (22)
815007
atuleanu@berhord.com
www.ad.berhord.com
- ME Montenegro**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
Serbia.
- MG Madagascar**
Please contact
Phambili Interface
South Africa
- MK Macedonia**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
Serbia

or
ELEKTRO - SMK doool
UL. III Makedonska brigada
b.b.
1000 Skopje
Telephone number +389
22460295
Fax number
Elektro-smk@telelab.net.mk
- MN Mongolia**
Please contact
our Representative Office
Weidmüller Interface
Azerbaijan.
- MT Malta**
E. S. S., Electrical Supplies &
Services Ltd.
San Gwakklin Road
Mrieheil

Telephone number +356
21255777
Fax number +356 21255999
robert.agius@ess.com.mt
- MU Mauritius**
Mubelo Electrical Ltd.
Office 26, Gateway building,
St Jean Road
Quatre Bornes
Mauritius
Telephone number +230
4670989
Fax number +230 4654051
richard.mubelo@orange.mu
- MW Malawi**
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
South Africa.
- MX Mexico**
W Interconnections S. A.
DE C. V.
Blvd. Hermanos Serdán 698,
Col. San Rafael Oriente
72029 Puebla
Telephone number +52 (222)
268 6227
Fax number +52 (222) 286
6242
clientes@weidmuller.com.mx
- MY Malaysia**
Connect Plus Technology
Sdn Bhd
No. 43, Jalan PJS 11/22,
Bandar Sunway
46150 Petaling Jaya
Selangor Darul Ehsan
Telephone number +60 3
5633 7363
Fax number +60 3 5633
6562
paul@cpctech.com.my
www.cpctech.com.my
- MZ Mozambique**
Please contact
Phambili Interface
South Africa
- NA Namibia**
Please contact
Phambili Interface
South Africa
- NG Nigeria**
Please contact
Weidmüller Interface GmbH
& Co. KG
South Africa
- NL Netherlands**
Weidmüller Benelux B. V.
Franciscusweg 221
1216 SE Hilversum
P.O. Box 1505
1200 BM Hilversum
Telephone number +31 35
626 12 61
Fax number +31 35 623
20 44
info@weidmuller.nl
www.weidmuller.nl
- NO Norway**
Sivilingeniør J.F. Knudtzen AS
Billingstadsletta 97
1396 Billingstad
PO Box 160
1378 Nesbru
Telephone number +47 66
98 33 50
Fax number +47 66 98 09 55
firmapost@jfknudtzen.no
www.jfknudtzen.no
- NZ New Zealand**
Cuthbert S. Steward Ltd.
27 Te Puni Street
Petone
PO Box 38496
Wellington Mail Centre 5054
Telephone number (04) 568
6156
Fax number (09) 489 1752
csi@cuthbertsteward.co.nz

Cuthbert S. Steward Ltd
4 Fred Thomas Drive
Aon Building, Ground Floor,
South Entry
Takapuna
PO Box 100 338
North Shore City 745
Telephone number (09) 489
1751
Fax number (04) 568 6056
cslak@cuthbertsteward.co.nz
- OM Oman**
DAN INTERNATIONAL LLC.
Ghala St. 111
BP 2901
Seeb
Telephone number +968
5036 77
Fax number +968 5037 55
yedu@danint.com
- PE Peru**
IMPEXINCA S.A.C.
Calle Ortiz de Zevallos No.
105, Urb. San Antonio
18
Lima, Miraflores
Telephone number +51 1
447 5608
info@impexinca.pe
www.impexinca.pe

J & W CIA, S. A.
Calle 6 Mz. D Lte. 23, Urb.
Ind. Grimanesa
01
Callao
Telephone number +51 1
572 2539
Fax number +51 1 572 0152
contacto@jwcia.com
www.jwcia.com
- PH Philippines**
Enclosure Systems Specialists
Inc.
2276 Don Chino Roces
Avenue Extension
Room 103/105 Narra Building
1231 Makati City
Telephone number +63 2
813 8580
Fax number +63 2 813 8596
sales_encsys@pltdsl.net
www.enclosuresystemsph.
com
- PK Pakistan**
Automation Controls (Pak)
Apartment No. 33 C III,
Chenab Block, Allama Iqbal
Town
Lahore
Telephone number +92 42
37809948
Fax number +92 42
37809950
nadeem@acpak.com.pk
www.acpak.com.pk
- PL Poland**
Weidmüller Sp. z o. o.
ul. Ogrodowa 58
00-876 Warszawa
Telephone number +48 22
510 09 40
Fax number +48 22 510
09 41
biuro@weidmuller.com.pl
www.weidmuller.pl
- PR Puerto Rico**
Please contact
W Interconnections Inc.
United States
- PT Portugal**
Weidmüller Sistemas de
Interface S. A.
Estrada Outeiro Polima, R.
Augusto Dias da Silva, Lote
B - Esc. 2
São Domingos de Rana
2785-515 Abóboda
Telephone number +351 214
459 191
Fax number +351 214
455 871
weidmuller@weidmuller.pt
www.weidmuller.pt
- PY Paraguay**
Please contact
CPI SA
Argentina
- QA Qatar**
Doha Motors
PO Box 145

Telephone number +974
4651441
Fax number +974 4654579
dmtctech@qatar.net.qa
http://www.dohamotorsgroup.
com/td.html

Petroleum Technology Co.
W.L.L.
PO Box 16069
5th Floor Toyota tower
Telephone number +974
44419603
Fax number +974 44419604
petrotec@qatar.net.qa
www.petrotec.com.qa
- RO Romania**
Representative Office
Weidmüller Interface GmbH
& Co. KG
Ionescu Crum Street, No.
1, 1st Tower, 1st Floor,
Office 4
500446 Brasov - Brasov
Business Park
Telephone number +40 (268)
446 222
Fax number +40 (262)
205 410
claudiu.totea@weidmuller.
com
www.weidmuller.com
- RS Serbia**
Representative Office
Weidmüller Interface GmbH
& Co. KG
Ustanička 189, III sprat
lokal 7a
11050 Beograd
Telephone number +381
112885274
Fax number +381
112885274
zoran.rabrenovic@
weidmuller.com

TeLa Elektrik d.o.o.
Ul. Dr. Drage Ljočić 6
Beograd
Telephone number +381 11
2772 415
Fax number +381 11 2772
850
office@tela.rs
www.tela.rs
- RU Russia**
Weidmüller Group
7/10 Khlebozavodskiy
Passage,
Moskau
115230
Telephone number +7 495
280 72 71
Fax number +7 495 280
72 71
Info@weidmuller.ru
www.weidmuller.ru
- SA Saudi Arabia**
Al Abdulkarim Holding Co.
P.O. Box 4
Dammam 31411
Telephone number +966 3
8337110
Fax number +966 3
8829547
E-mail salehsk@akh.com.sa
www.weidmuller.ae

Saudi Electric Supply
Company (SESCO)
P.O. Box 32 98
Al Khobar 31952
Telephone number +966 3
8829546 Ext. 3030
Fax number
E-mail Safdar.Malik@sescogex.com
www.sescogex.com
- SE Sweden**
Weidmüller AB
Axel Danielssons väg 271
BOX 31025
SE-200 49 Malmö
Telephone number +46 77-
143 00 44
Fax number +46 40-37 48 60
info@weidmuller.se
www.weidmuller.se
- SG Singapore**
Weidmüller Pte. Ltd.
70 Bendemeer Road
04-03 Luzerne Building
Singapore 339940
Telephone number +65 6841
5311
Fax number +65 6841 5377
info@weidmuller.com.sg
www.weidmuller.com.sg
- SI Slovenia**
Elektrospoji d. o. o.
Stegne 27
SI- 1000 Ljubljana
Osrednjeslovenska
Telephone number +386 1
51 1 3810
Fax number +386 1 511
1604
info@elektrospoji.si
www.elektrospoji.si
- SK Slovakia**
ELEKTRIS s.r.o.
Elektrárnská 1
831 04 Bratislava
Telephone number +421
2/4920 0113
Fax number +421 2/4920
0119
bratislava@elektris.sk

Addresses worldwide

Let's connect.

SV El Salvador
Prestegard Electro
11 Avenida Norte No. 240
Edificio Salazar No. 2
San Salvador
Telephone number +503
2271 1690
Fax number +503 2221
3851
prestegard@navegante.com.sv

SY Syria
Please contact
Weidmüller Middle East FZE
United Arab Emirates

SZ Swaziland
Please contact
Phambili Interface
South Africa

TH Thailand
Pisanu Engineering Co. Ltd.
Kwang Dingaeng, Khet
Dingaeng
800/2 Soi Trakulsuk, Asoke-
dindaeng Road
Dindaeng, Bangkok
10400
Telephone number +66 2
248 2896
Fax number +662 105 6301
ecsales@pisanu.co.th
www.pisanu.co.th

Representative Office
Weidmüller Pte. Ltd.
37/F, Sathorn Square Building
98 North Sathorn Road
Bangkok, Silom Bangrak
10500
Telephone number +66 2
105 6300
Fax number +66 2 642 9220
info@weidmuller.com.sg

TJ Tajikistan
Please contact
our Representative Office
Weidmüller Interface
Azerbaijan.

TM Turkmenistan
Please contact
our Representative Office
Weidmüller Interface
Azerbaijan.

TN Tunisia
Please contact
Weidmüller E. U. R. L.
France

TR Turkey
Weidmüller Elektronik Ticaret
Ltd. Sirketi
Kavacik Mah. Orhan Veli Kanik
Caddesi 9/1
34810 Beykoz / Istanbul
Telephone number +90 (216)
537 10 70
Fax number +90 (216) 537
10 77
info@weidmuller.com.tr
www.weidmuller.com.tr

TW Taiwan
Weidmüller (Hong Kong)
Limited
No. 3, Lane 89, ChungYang
N. Rd
24148 SanChuang City,
Taipei
Telephone number +886 921
949 751
roy.lin@weidmueller.com.hk

TZ Tanzania
Please contact
our Representative Office
Weidmüller Interface GmbH
& Co. KG
South Africa.

UA Ukraine
LLC WM UKRAINE
Levanevskogo str. 6
Kiev
3058
Telephone number +38 044
490 32 48
Fax number
info@wm-ua.com.ua
wm-ua.com.ua/

Representative Office
Weidmüller Interface GmbH
& Co. KG
Z, office 303
7-D, Zdolbunivska str.
Kiev, 2081
Telephone number
(mobile) +38 050 440 25 24
info.ua@weidmueller.com

US United States
W Interconnections Inc.
821 Southlake Boulevard
Richmond Virginia 23236
Telephone number +1 (804)
794-2877
Fax number +1 (804) 379-
2593
info@weidmuller.com
www.weidmuller.com

UY Uruguay
REWUO Uruguay S. A.
AV. Bolivia 2001Esq
Rocafuerte
11300 Carrasco Montevideo
Telephone number +598
2604 8439
Fax number +598 2604
8439
rewo@rewouruguay.com.uy

UZ Republic of Uzbekistan
Please contact
our Representative Office
Weidmüller Interface
Azerbaijan.

VE Venezuela
Somerinca C. A.
Corazon de Jesus - 3ra
Transversal con calle el
Carmen- Los Dos Caminos
Caracas 1070-A
Telephone number +58
2 122352748
Fax number +58
2 122399341
klocmoeller@cantv.net
www.somerinca.com

VN Vietnam
ALUMI Industrial Equipment &
Automation Company Limited
E1, La Thanh Hotel
218 Doi Can Street
Lieu Giai Ward, Ba Dinh
District
Hanoi City
Telephone number +84 4
37628601
Fax number +84 4
62661391
aumi@aumi.com.vn
www.aumi.com.vn

Representative Office
Weidmüller Pte. Ltd.
Level 16 Saigon Tower
Building
29 Le Duan Street
District 1
Ho Chi Minh
Telephone number +848
3520 7717
Fax number +848 3520
7604
info@weidmuller.com.sg

ZA South Africa
Phambili Interface
PO Box 193
1609 Johannesburg, Edenvale
5 Bundo Road, Sebenza
1610 Johannesburg
Telephone number +27 (11)
4521930
Fax number
info@weidmuller.co.za
www.weidmuller.co.za

Representative Office
Weidmüller Interface GmbH
& Co. KG
210 Amarand
Avenue, Pegasus Building
181 Pretoria, waterkloof Glen
ext 2 -
Telephone number +27 12
003 2906
Fax number +27 (11)
4526455
Jacques.Vosloo@weidmueller.
com
www.weidmueller.com

ZM Zambia
Please contact
Phambili Interface
South Africa

ZW Zimbabwe
Please contact
Phambili Interface
South Africa