

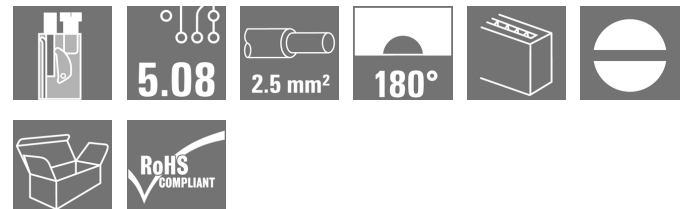
SLT 5.08/06/180DF SN OR BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Male plugs with screw TOP wire connection. The male plug provides space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 6, 180°, TOP connection, Clamping range, max. : 2.5 mm², Box
Order No.	1353400000
Type	SLT 5.08/06/180DF SN OR BX
GTIN (EAN)	4050118156010
Qty.	30 pc(s).
Product data	IEC: 400 V / 16 A / 0.2 - 2.5 mm² UL: 300 V / 15 A / AWG 26 - AWG 14
Packaging	Box

Creation date March 23, 2021 6:01:24 PM CET

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Technical data

Dimensions and weights

Depth	34 mm	Depth (inches)	1.339 inch
Height	12.2 mm	Height (inches)	0.48 inch
Net weight	20.2 g		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08		
Type of connection	Field connection		
Wire connection method	TOP connection		
Pitch in mm (P)	5.08 mm		
Pitch in inches (P)	0.2 inch		
Conductor outlet direction	180°		
Number of poles	6		
L1 in mm	25.4 mm		
L1 in inches	1 inch		
Pin series quantity	1		
Touch-safe protection acc. to DIN VDE 57 106	finger-safe plugged/ back-of-hand-safe unplugged		
Volume resistance	≤5 mΩ		
Can be coded	Yes		
Stripping length	13 mm		
Tightening torque, min.	0.4 Nm		
Tightening torque, max.	0.5 Nm		
Clamping screw	M 2.5		
Screwdriver blade	0.6 x 3.5		
Screwdriver blade standard	DIN 5264		
Plugging cycles	25		
Plugging force/pole, max.	5.5 N		
Pulling force/pole, max.	5 N		
Tightening torque	Torque type	Wire connection	
	Usage information	Tightening torque	min. 0.4 Nm max. 0.5 Nm

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	CuSn
Contact surface	tinned	Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²

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Flexible, max. H05(07) V-K		1.5 mm²	
w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm² min.			
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm² max.			
w. wire end ferrule, DIN 46228 pt 1, min.		0.2 mm²	
w. wire end ferrule, DIN 46228 pt 1, max.		1.5 mm²	
Plug gauge in accordance with EN 60999 a x b; ø		2.4 mm x 1.5 mm ; 2.4 mm	
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H0.5/18 OR
	Cross-section for conductor connection	Type	fine-wired
		nominal	1 mm²
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H1.0/18 GE
	Cross-section for conductor connection	Type	fine-wired
		nominal	1.5 mm²
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H1.5/18D SW
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1.5/12
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H0.75/18 W
Reference text		The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.	

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	16 A
Rated current, max. number of poles (Tu=20°C)	12.5 A	Rated current, min. number of poles (Tu=40°C)	13 A
Rated current, max. number of poles (Tu=40°C)	11 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	400 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s with 120 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14

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Technical data

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 15 A

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, min. AWG 26

Wire cross-section, AWG, max. AWG 14

Reference to approval values
Specifications are maximum values, details - see approval certificate.

Packing

Packaging

Box

VPE length

0 m

VPE width

0 m

VPE height

0 m

Type tests

Test: Durability of markings

Standard

draft DIN VDE 0627 section 6.2.2 / 09.91, DIN - IEC 512 part 7 section 5 (May 94)

Test

durability

Evaluation

passed

Test: Misengagement (Non-interchangeability)

Standard

draft DIN VDE 0627 table 8 item 4 / 09.91, DIN - IEC 512 part 7 section 5 (May 94)

Test

180° turned with coding elements

Evaluation

passed

Test: Clampable cross section

Standard

DIN EN 60999 section 6 / 04.94

Conductor type

Type of conductor and conductor cross-section solid 0.5 mm²Type of conductor and conductor cross-section stranded 0.5 mm²Type of conductor and conductor cross-section solid 1.5 mm²Type of conductor and conductor cross-section stranded 1.5 mm²

Type of conductor and conductor cross-section AWG 28/1

Type of conductor and conductor cross-section AWG 28/19

Type of conductor and conductor cross-section AWG 14/1

Type of conductor and conductor cross-section AWG 14/19

Evaluation

passed

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Technical data

Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999 section 8.4 / 04.94	
	Requirement	0.2 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm ²
		Type of conductor and conductor cross-section	stranded 0.5 mm ²
	Evaluation	passed	
	Requirement	0.4 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 1.5 mm ²
		Type of conductor and conductor cross-section	stranded 1.5 mm ²
	Evaluation	passed	
	Requirement	0.7 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 14/19
	Evaluation	passed	
Pull-out test	Standard	DIN EN 60999 section 8.5 / 04.94	
	Requirement	≥5 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	≥20 N	
	Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
		Type of conductor and conductor cross-section	H05V-K0.5
	Evaluation	passed	
	Requirement	≥40 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-K1.5
	Evaluation	passed	
	Requirement	≥50 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-U2.5
		Type of conductor and conductor cross-section	AWG 14/19
	Evaluation	passed	

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Technical data

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ECLASS 9.0	27-44-03-09	ECLASS 9.1	27-44-03-09
ECLASS 10.0	27-44-03-09	ECLASS 11.0	27-46-02-02

Important note

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	• Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • Crimp form A for wire end ferrules with PZ1.5 or PZ 6/5 crimping tool are recommended for the largest cable sizes. • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	STEP

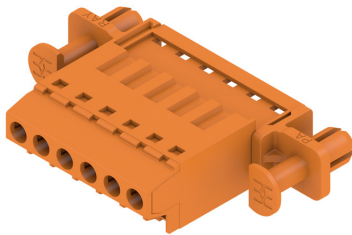
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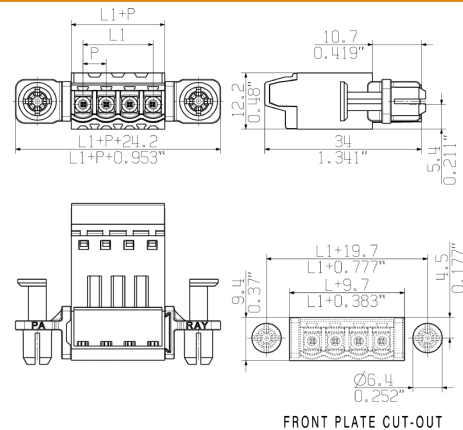
www.weidmueller.com

Drawings

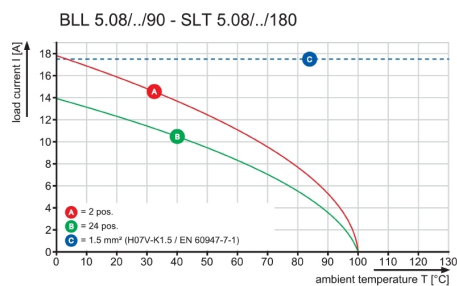
Product image



Dimensional drawing



Graph

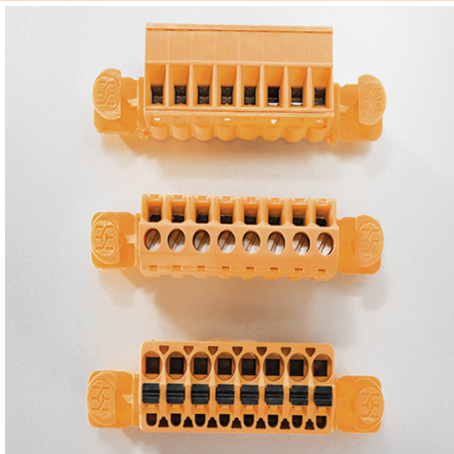


Product benefits



Lower assembly costs
Secure in a matter of seconds

Product benefits



Flexible application options
For 3 connection systems

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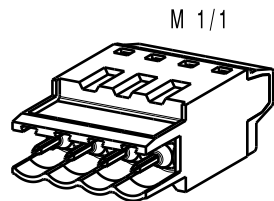
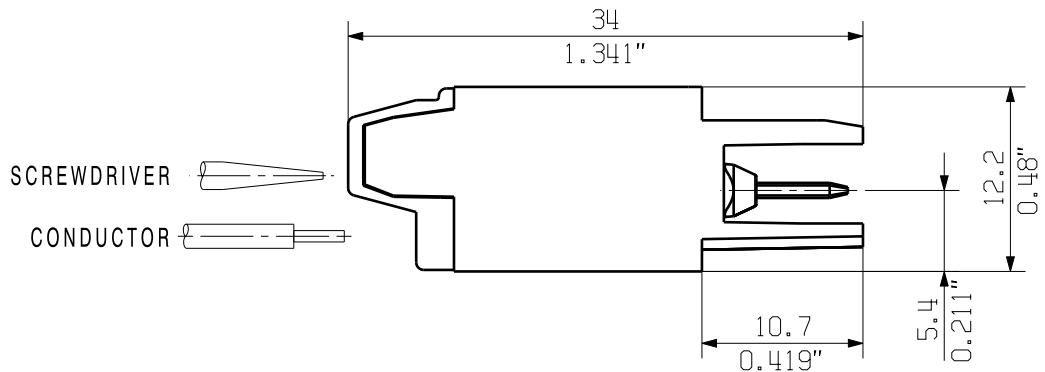
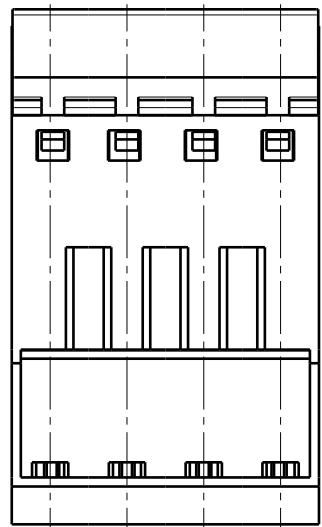
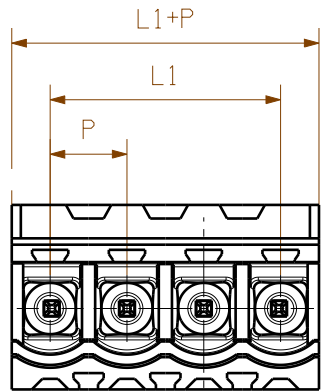
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MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE
DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

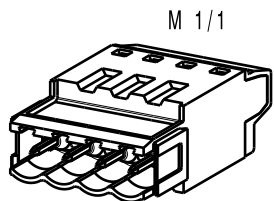
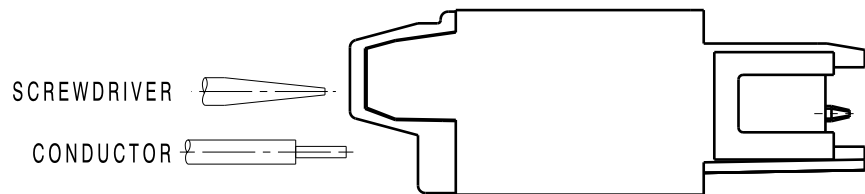
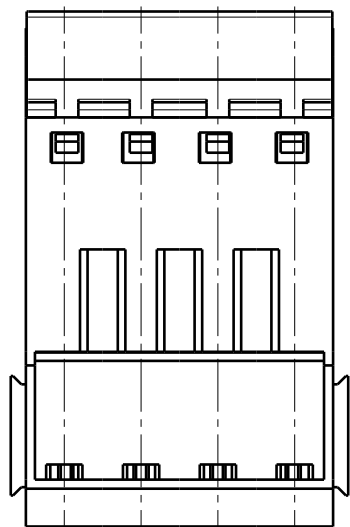
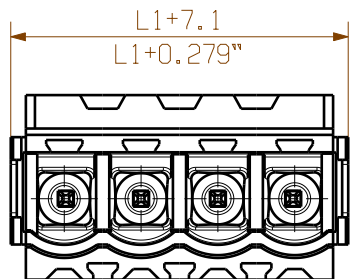
ALLGEMEINGUELTIGE KUNDENZEICHNUNG, AKTUELLER STAND NUR AUF ANFRAGE
GENERAL CUSTOMER DRAWING, TOPICAL VERSION ONLY IF REQUIRED

DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

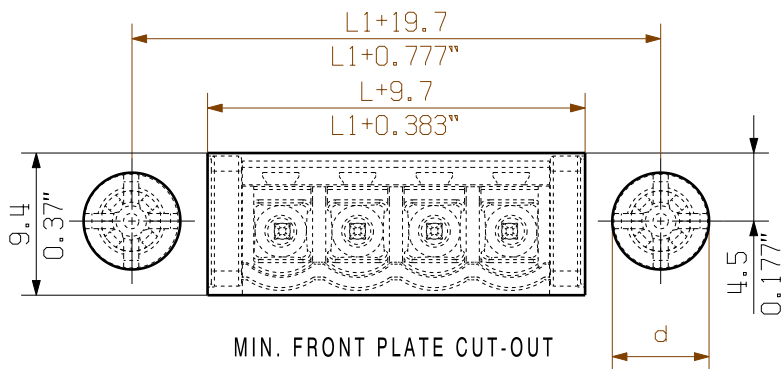
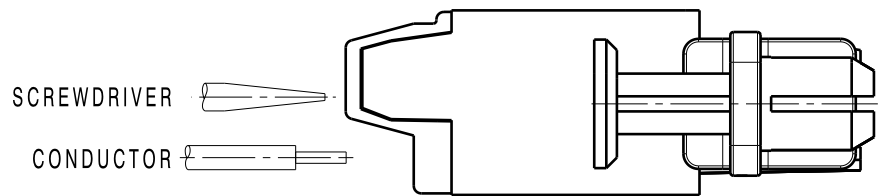
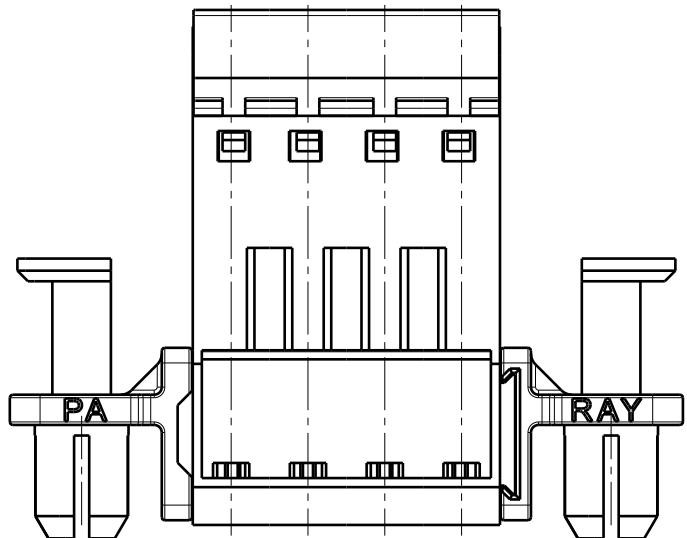
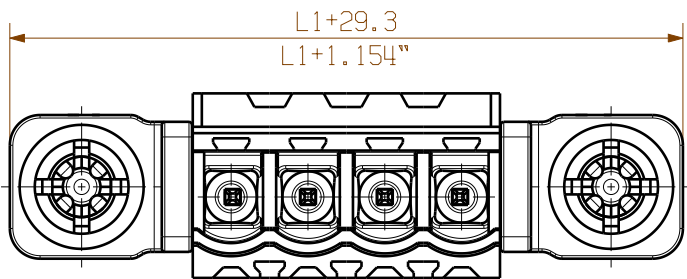
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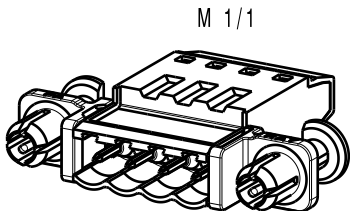
SHOWN: SLT 5.08/04/180B



SHOWN: SLT 5.08/04/180DF



0.5-0.8	0.019-0.031	6.3	0.248
1.00	0.039	6.4	0.252
1.5	0.059	6.5	0.256
2.00	0.079	6.7	0.264
WANDDICKE WALL THICKNESS [mm]	WANDDICKE WALL THICKNESS [inch]	d [mm]	d [inch]



P=5.08 RASTER
PITCH

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

	24	106.84	4.600
	23	111.76	4.400
	22	106.68	4.200
	21	101.60	4.000
	20	96.52	3.800
	19	91.44	3.600
	18	86.36	3.400
	17	81.28	3.200
	16	76.20	3.000
	15	71.12	2.800
	14	66.04	2.600
	13	60.96	2.400
	12	55.88	2.200
	11	50.80	2.000
	10	45.72	1.800
	9	40.64	1.600
	8	35.56	1.400
	7	30.48	1.200
	6	25.40	1.000
	5	20.32	0.800
	4	15.24	0.600
	3	10.16	0.400
	2	5.08	0.200
n POLZAHL POLES	L1 [mm]	L1 [inch]	

METRIC TOLERANCES
X. = ±0.3
X.X = ±0.1
X.XX = ±0.05

70330/5
24.05.13 HELIS_MA

01

MODIFICATION

DRAWN
14.06.2012
HECKERT_M

RESPONSIBLE
HERTEL_S

CHECKED
07.06.2013
HECKERT_M

APPROVED
HECKERT_M

CAT.NO.:
C 21246 05

DRAWING NO.
SHEET 01 OF 01 SHEETS

ISSUE NO.

SLT 5.08/.../180...
STIFTSTECKER
MALE PLUG

PRODUCT FILE: SLT 5.08

7315

SCALE: 2/1
SUPERSEDES:.