

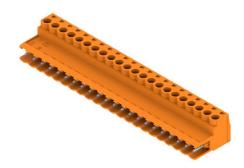


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male plug, 5.08 mm, Num-
	ber of poles: 22, 180°, Clamping yoke connection,
	Clamping range, max. : 3.31 mm², Box
Order No.	<u>1644890000</u>
Туре	SLS 5.08/22/180 SN OR BX
GTIN (EAN)	4008190284107
Qty.	12 items
Product data	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm ²
	UL: 300 V / 14 A / AWG 26 - AWG 12
Packaging	Box





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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Depth	22.2 mm	Depth (inches)	0.874 inch
Height	15.3 mm	Height (inches)	0.6024 inch
Net weight	32.97 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.0)8			
Type of connection	Field connection				
Wire connection method	Clamping yoke connection				
Pitch in mm (P)	5.08 mm				
Pitch in inches (P)	0.200 "				
Conductor outlet direction	180°				
Number of poles	22				
L1 in mm	106.68 mm				
L1 in inches	4.200 "				
Number of rows	1				
Pin series quantity	1				
Touch-safe protection acc. to DIN VDE 57 106	finger-safe plugged/ back-of-hand-sa	fe unplugged	I		
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged				
Protection degree	IP20, when fully mounted				
Volume resistance	≤5 mΩ				
Can be coded	Yes				
Stripping length	7 mm				
Clamping screw	M 2.5				
Screwdriver blade	0.6 x 3.5				
Screwdriver blade standard	DIN 5264-A				
Plugging cycles	25				
Plugging force/pole, max.	4 N				
Pulling force/pole, max.	3 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	Illa	

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Technical data

Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	48 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

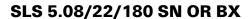
Conductors suitable for conr	nection			
Clamping range, min.	0.13 mm ²			
Clamping range, max.	3.31 mm ²			
Wire connection cross section AWG,	AWG 26			
min.				
Wire connection cross section AWG, max.	AWG 12			
Solid, min. H05(07) V-U	0.2 mm ²			
Solid, max. H05(07) V-U	2.5 mm ²			
Stranded, min. H07V-R	0.2 mm ²			
Stranded, max. H07V-R	2.5 mm ²			
Flexible, min. H05(07) V-K	0.2 mm ²			
Flexible, max. H05(07) V-K	2.5 mm ²			
w. plastic collar ferrule, DIN 46228 pt	4, 0.2 mm²			
w. plastic collar ferrule, DIN 46228 pt max.	4, 2.5 mm ²			
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²			
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²			
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.0 mm; 2.4 mm			
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.5 mm ²	
	wire end ferrule	Stripping length	nominal 6 mm	
		Recommended wire- end ferrule	H0,5/6	
	Cross-section for conductor connection	Type fine-wired		
	Cross-section for conductor connection	nominal 1 mm ²		
	wire end ferrule	Stripping length	nominal 6 mm	
	The sing is not all	Recommended wire-	H1,0/6	
		end ferrule		
	Cross-section for conductor connection	Туре	fine-wired	
		nominal	1.5 mm ²	
	wire end ferrule	Stripping length	nominal 7 mm	
		Recommended wire- end ferrule	<u>H1,5/7</u>	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal 7 mm	
		Recommended wire- end ferrule	H2,5/7	
	Cross-section for conductor connection	Туре	fine-wired	
		nominal	0.75 mm ²	
	wire end ferrule	Stripping length	nominal 6 mm	
		Recommended wire-	H0,75/6	
		end ferrule		

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is to be chosen depending on the product and the rated voltage.







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Technical data

Rated data acc. to IE	. to IE	acc.	data	ed	Rate
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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	21.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	18 A
Rated current, max. number of poles (Tu=40°C)	14 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 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

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)	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)	14 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	350.00 mm
VPE width	135.00 mm	VPE height	30.00 mm

Type tests

Test: Durability of markings	Standard	VDE 0627 Tab. 7 item 3/6.86	
	Test	durability	
	Evaluation	passed	
Test: Clampable cross section	Standard	VDE 0609 part 1 06.83, EN 60947-1 03.9	
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section	
		Type of conductor H05V-K0.5 and conductor cross- section	
		Type of conductor H05V-U2.5 and conductor cross- section	
		Type of conductor H05V-K2.5 and conductor cross- section	
		Type of conductor AWG 28 and conductor cross-section	

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Technical data

		Type of conductor AWG 14 and conductor cross-section	
	Evaluation	passed	
Test for damage to and accidental	Standard	EN 60947-1/1991 section 8.2.4.3	
loosening of conductors	Requirement	0.3 kg	
	Conductor type	Type of conductor H05V-U0.5 and conductor cross- section	
		Type of conductor H05V-K0.5 and conductor cross-section	
	Evaluation	passed	
	Requirement	0.7 kg	
	Conductor type	Type of conductor H07V-U2.5 and conductor cross-section	
		Type of conductor H07V-K2.5 and conductor cross-section	
	Evaluation	passed	
Pull-out test	Standard	EN 60947-1/1991 section 8.2.4.4	
	Requirement	Requirement ≥5 N	
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section	
		Type of conductor AWG 28/7 and conductor cross-section	
	Evaluation	passed	
	Requirement	≥50 N	
	Conductor type	Type of conductor H07V-U2.5 and conductor cross-section	
		Type of conductor H07V-K2.5 and conductor cross-section	
		Type of conductor AWG 14/19 and conductor cross-section	
	Evaluation	passed	

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 variants 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
- 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

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Technical data

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	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	ECLASS 12.0	27-46-02-02
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



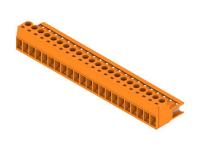
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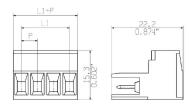
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Drawings

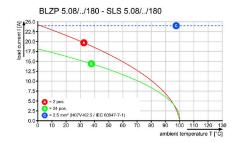
Product image

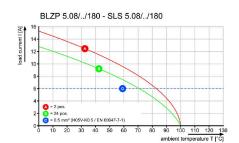


Dimensional drawing

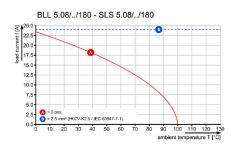


Graph Graph





Graph





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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Туре	BLZ/SL KO BK BX	Version
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	
Type	BLZ/SL KO OR BX	Version
Type Order No.	BLZ/SL KO OR BX 1573010000	Version PCB plug-in connector, Accessories, Coding element, orange, Number
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