



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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Similar to illustration

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

General ordering data

Version	PCB plug-in connector, female plug, 7.50 mm, Number of poles: 7, 180°, Clamping yoke connec- tion, Clamping range, max. : 3.31 mm², Box
Order No.	<u>1628190000</u>
Туре	BLZ 7.50/07/180B SN OR BX
GTIN (EAN)	4008190200992
Qty.	40 items
Product data	IEC: 800 V / 18.5 A / 0.2 - 2.5 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12
Packaging	Вох



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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	20.1 mm	Depth (inches)	0.7913 inch
Height	15.2 mm	Height (inches)	0.5984 inch
Net weight	12.36 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 7.50	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.50 mm
Pitch in inches (P)	0.295 "	Conductor outlet direction	180°
Number of poles	7	L1 in mm	45.00 mm
L1 in inches	1.772 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	7 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.	9 N
Pulling force/pole, max.	8.5 N		

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	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 mm²
Clamping range, max.	3.31 mm ²
Wire connection cross section AWG,	AWG 28
min.	
Wire connection cross section AWG,	AWG 12
max.	

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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		
Flexible, max. H05(07) V-K	2.5 mm ²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.2 mm ²		
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	e-wired
·		nominal 0.5	5 mm²
	wire end ferrule	Stripping length no	ominal 6 mm
			<u>,5/6</u>
	Cross-section for conductor connection	Type fine	e-wired
		nominal 1 r	nm²
	wire end ferrule	Stripping length no	ominal 6 mm
		Recommended wire- H1 end ferrule	<u>,0/6</u>
	Cross-section for conductor connection	Type find	e-wired
		nominal 1.5	5 mm²
	wire end ferrule	Stripping length no	ominal 7 mm
		Recommended wire- H1 end ferrule	<u>.5/7</u>
	Cross-section for conductor connection	Type fine	e-wired
		nominal 2.5	5 mm²
	wire end ferrule	Stripping length no	ominal 7 mm
		Recommended wire- end ferrule	.5/7
	Cross-section for conductor connection	Type fine	e-wired
		**	75 mm²
	wire end ferrule	Stripping length no	ominal 6 mm
		5	<u>,75/6</u>
Reference text	The outside diameter of the plastic collar sho	uld not be larger than the pitch (P), Length of ferrule:

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)	18.5 A
Rated current, max. number of poles (Tu=20°C)	17 A	Rated current, min. number of poles (Tu=40°C)	15 A
Rated current, max. number of poles (Tu=40°C)	14.5 A	Rated voltage for surge voltage class / pollution degree II/2	800 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 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

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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)	15 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	294.00 mm
VPE width	177.00 mm	VPE height	25.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking	
	Test	pattern from DIN EN 60068-2-70 / 07.96 mark of origin, type identification, rated cross- section, rated voltage, pitch, type of material, approval marking UL, approval marking CSA	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	draft DIN VDE 0627 section 5.9.1 / 09.91, DIN IEC 60512-7 section 5 / 05.94	
	Test	180° turned with coding elements	
	Evaluation	passed	
Test: Clampable cross section	Standard	DIN EN 60999 section 6 and 8.1 / 04.94, DIN EN 60947-1 section 8.2.4.5.1 / 07.98	
	Conductor type	Type of conductor solid 0.08 mm ² and conductor cross-section	
		Type of conductor stranded 0.08 mm ² and conductor cross-section	
		Type of conductor solid 2.5 mm ² and conductor cross-section	
		Type of conductor stranded 2.5 mm ² and conductor cross-section	
		Type of conductor AWG 28/1 and conductor cross-section	
		Type of conductor AWG 28/19 and conductor cross-section	
		Type of conductor AWG 12/1 and conductor cross-section	
		Type of conductor AWG 12/19 and conductor cross-section	





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Test for damage to and accidental	Standard DIN EN 60999 section 8.4 / 04.94			
osening of conductors	Requirement	0.2 kg		
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section		
		Type of conductor AWG 28/7 and conductor cross-section		
	Evaluation	Evaluation passed		
	Requirement	0.3 kg		
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section		
		Type of conductor stranded 0.5 mm ² and conductor cross-section		
	Evaluation	passed		
	Requirement	0.7 kg		
	Conductor type	Type of conductor solid 2.5 mm ² and conductor cross-section		
		Type of conductor stranded 2.5 mm ² and conductor cross-section		
	Evaluation	passed		
	Requirement	0.9 kg		
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		
	Evaluation	passed		
ull-out test	Standard	ndard DIN EN 60999 section 8.5 / 04.94		
	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 H05V-U2.5 and conductor cross- section		
		Type of conductor H05V-K2.5 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥60 N		
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		
	Evaluation	passed		





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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 Gold-plated contact surfaces 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

Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



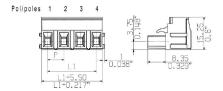
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Drawings

Dimensional drawing



Derating curve

