



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

General ordering data

Packaging	Box
r roduct data	UL: 300 V / 20 A / AWG 26 - AWG 12
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm ²
Qty.	12 items
GTIN (EAN)	4032248624102
Туре	BLZP 5.08HC/20/270LR SN OR BX
Order No.	<u>1947710000</u>
Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20, 270°, Clamping yoke con- nection, Clamping range, max.: 4 mm², Box





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Technical data

Approvals

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Approvals	⊕. □ 1*	KEMA
	C Table	ILFOR

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

Dimensions and weights

Depth	29.5 mm	Depth (inches)	1.1614 inch
Height	17.7 mm	Height (inches)	0.6968 inch
Width	111.42 mm	Width (inches)	4.3866 inch
Net weight	38 g		

Environmental Product Compliance

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

System Parameters

Cycloni i aramotoro				
Product family	OMNIMATE Signal - series BL/SL 5.08			
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	270°			
Number of poles	20			
L1 in mm	96.52 mm			
L1 in inches	3.800 "			
Number of rows	1			
Pin series quantity	1			
Rated cross-section	4 mm ²			
Touch-safe protection acc. to DIN VDE	Safe from finger touch			
57 106				
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged			
Protection degree	IP20			
Volume resistance	≤5 mΩ			
Can be coded	Yes			
Stripping length	7 mm			
Clamping screw	M 2.5			
Screwdriver blade	0.6 x 3.5, PH 1, PZ 1			
Screwdriver blade standard	DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ			
Plugging cycles	25			
Plugging force/pole, max.	10 N			
Pulling force/pole, max.	9 N			
Tightening torque	Torque type	Wire connection		
	Usage information	Tightening torque	min.	0.4 Nm
			max.	0.5 Nm







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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	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 conn	ection		
	0.10		
Clamping range, min.	0.13 mm ²		
Clamping range, max.	4 mm ²		
Wire connection cross section AWG, min.	AWG 30		
Wire connection cross section AWG, max.	AWG 12		
Solid, min. H05(07) V-U	0.2 mm ²		
Solid, max. H05(07) V-U	4 mm²		
Flexible, min. H05(07) V-K	0.2 mm ²		
Flexible, max. H05(07) V-K	4 mm ²		
v. plastic collar ferrule, DIN 46228 pt			
v. plastic collar ferrule, DIN 46228 pt nax.	4, 2.5 mm²		
v. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²		
v. wire end ferrule, DIN 46228 pt 1, max.	4 mm²		
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm		
Clampable conductor	Cross-section for conductor connection	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H0,5/6
		Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,5/12 OR
	Cross-section for conductor connection	nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H1,0/6
	Cross-section for conductor connection	nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 7 mm
		Recommended wire- end ferrule	H1,5/7
	Cross-section for conductor connection	nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 7 mm
		Recommended wire- end ferrule	H2,5/7
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H2,5/15D BL
Reference text	The outside diameter of the plastic collar shows is to be chosen depending on the product and	uld not be larger than the pi	itch (P), Length of ferr

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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)	23 A
Rated current, max. number of poles (Tu=20°C)	18 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16 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	4000 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage	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 C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	20 A
Rated current (Use group D / CSA)	20 A	Wire cross-section, AWG, min.	AWG 30
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 (cURus)	CURUS	Certificate No. (cURus)	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)	20 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	338.00 mm
VPE width	130.00 mm	VPE height	27.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96	
	Test	mark of origin, rated voltage, rated cross-section, type of material	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06	
	Test	180° turned with coding elements	
	Evaluation	passed	
	Test	visual examination	
	Evaluation	passed	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section	

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		Type of conductor stranded 0.2 mn and conductor cross-section
		Type of conductor solid 2.5 mm ² and conductor cross-section
		Type of conductor stranded 2.5 mn and conductor cross-section
		Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
est for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
oosening of conductors	Requirement	0.2 kg
iooseimig of conductors	Conductor type	Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
	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 mn 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
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement Conductor type	≥10 N Type of conductor AWG 26/1 and conductor cross- section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	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	≥60 N
	Conductor type	Type of conductor H07V-U4.0 and conductor cross-section



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	Type of conductor and conductor cross-section	H07V-K4.0
	Type of conductor and conductor cross-section	AWG 12/1
	Type of conductor and conductor cross-section	AWG 12/19
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
- · 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 $^{\circ}$ C and maximum humidity 70%, 36 months

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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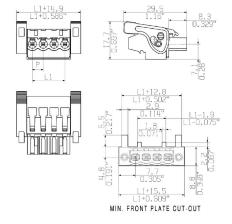
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Drawings

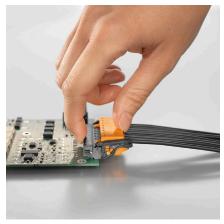
Product image



Dimensional drawing

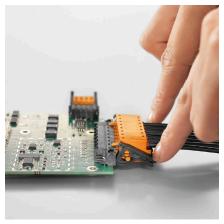


Product benefits



Self-locking Immediately on plugging in

Product benefits



Gentle unlockingLow mechanical stress