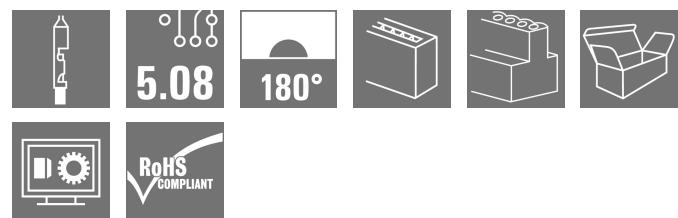
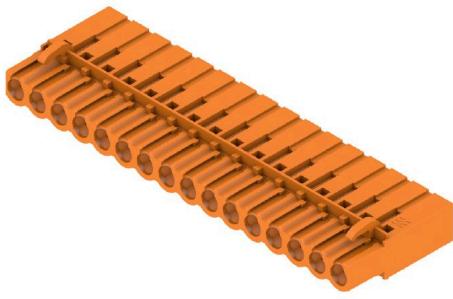


BLC 5.08/16/180R OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 16, 180°, Crimp connection, Clamping range, max. : 2.5 mm ² , Box
Order No.	1610630000
Type	BLC 5.08/16/180R OR BX
GTIN (EAN)	4008190008253
Qty.	50 items
Product data	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	24.5 mm
Height	10.1 mm
Width	81.28 mm
Net weight	10.06 g

Depth (inches)	0.9646 inch
Height (inches)	0.3976 inch
Width (inches)	3.2 inch

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 5.08
Wire connection method	Crimp connection
Pitch in inches (P)	0.200 "
Number of poles	16
L1 in inches	3.000 "
Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20
Can be coded	Yes
Plugging cycles	25
Pulling force/pole, max.	6.5 N

Type of connection	Field connection
Pitch in mm (P)	5.08 mm
Conductor outlet direction	180°
L1 in mm	76.20 mm
Number of rows	1
Rated cross-section	2.5 mm ²
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Volume resistance	≤5 mΩ
Stripping length	5 mm
Plugging force/pole, max.	8.5 N

Material data

Insulating material	PBT GF
Colour chart (similar)	RAL 2000
Comparative Tracking Index (CTI)	≥ 200
UL 94 flammability rating	V-0
Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, max.	70 °C
Operating temperature, max.	100 °C
Temperature range, installation, max.	100 °C

Colour	orange
Insulating material group	IIIa
Moisture Level (MSL)	
Contact material	Cu-alloy
Storage temperature, min.	-40 °C
Operating temperature, min.	-50 °C
Temperature range, installation, min.	-25 °C

Conductors suitable for connection

Clamping range, min.	0.22 mm ²
Wire connection cross section AWG, min.	AWG 24
Flexible, min. H05(07) V-K	0.5 mm ²
Reference text	The outside diameter of the plastic collar should not be larger than the pitch

Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, max.	AWG 14
Flexible, max. H05(07) V-K	2.5 mm ²

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(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)	21 A
Rated current, max. number of poles (Tu=20°C)	14.5 A	Rated current, min. number of poles (Tu=40°C)	18 A
Rated current, max. number of poles (Tu=40°C)	12.5 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)	12400-374
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
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)	10 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	185.00 mm
VPE width	113.00 mm	VPE height	90.00 mm

Type tests

Test: Durability of markings	Standard	draft DIN VDE 0627 section 6.2.2 / 09.91, DIN IEC 512 part 7 section 5 / 05.94
	Test	durability
	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	<ul style="list-style-type: none"> Additional variants on request Rated current related to rated cross-section & min. No. of poles. Rated cross-section depends on crimp contact used.

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- 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

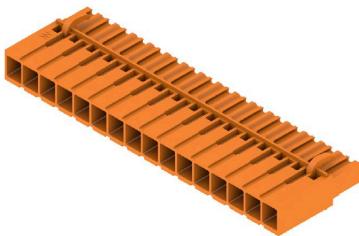
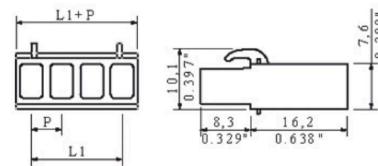
Classifications

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**Product image****Dimensional drawing****Graph**