

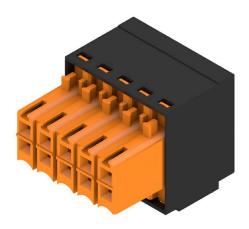


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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Female connector with integral cross-connection and clear printing for uninterrupted relaying of potential at full current-carrying capacity with the maximum cable cross-section. The cross-connection is positioned vertically between the poles of rows directly on top of each other. Conductor connection with tension clamp system with straight outlet and 3.5 mm pitch. Flange and release lever available. Packed in cardboard box.

General ordering data

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 10, 180°, Tension-clamp con- nection, Clamping range, max.: 1 mm², Box
Order No.	<u>1944610000</u>
Туре	B2L 3.50/10/180QV5 SN BK BX
GTIN (EAN)	4032248619542
Qty.	102 items
Product data	IEC: 200 V / 10.6 A / 0.2 - 1 mm² UL: 150 V / 7 A / AWG 28 - AWG 18
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	20.6 mm	Depth (inches)	0.811 inch
Height	15.7 mm	Height (inches)	0.6181 inch
Width	17.5 mm	Width (inches)	0.689 inch
Net weight	5.12 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	Type of connection	Field connection	
	B2L/S2L 3.50 - 2-row	D: 1 : (D)	0.50	
Wire connection method	Tension-clamp connection	Pitch in mm (P)	3.50 mm	
Pitch in inches (P)	0.138 "	Conductor outlet direction	180°	
Number of poles	10	L1 in mm	14.00 mm	
L1 in inches	0.551 "	Number of rows	1	
Pin series quantity	2	Rated cross-section	1 mm ²	
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged	
Protection degree	IP20, when fully mounted	Can be coded	Yes	
Stripping length	7 mm	Screwdriver blade	0.4 x 2.5	
Screwdriver blade standard	DIN 5264	Plugging cycles	25	
Plugging force/pole, max.	5 N	Pulling force/pole, max.	4 N	

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	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.	-30 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.08 mm ²
Clamping range, max.	1 mm ²
Wire connection cross section AWG,	AWG 28
min.	
Wire connection cross section AWG,	AWG 18
max.	

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0.2 mm ²		
1 mm ²		
0.2 mm ²		
1 mm ²		
4, 0.14 mm ²		
4, 0.34 mm ²		
0.14 mm ²		
0.34 mm ²		
Cross-section for conductor connection	Туре	fine-wired
	nominal	0.14 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,14/12 GR SV
Cross-section for conductor connection	Type	fine-wired
	nominal	0.25 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire- end ferrule	H0,25/12 HBL
	1 mm² 0.2 mm² 1 mm² 4, 0.14 mm² 4, 0.34 mm² 0.14 mm² Cross-section for conductor connection wire end ferrule Cross-section for conductor connection	1 mm² 0.2 mm² 1 mm² 4, 0.14 mm² 2.4, 0.34 mm² 0.14 mm² 0.34 mm² Cross-section for conductor connection wire end ferrule Type nominal Stripping length Recommended wireend ferrule Cross-section for conductor connection wire end ferrule Type nominal Stripping length Recommended wireended wiree

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	10.6 A
Rated current, max. number of poles (Tu=20°C)	8.2 A	Rated current, min. number of poles (Tu=40°C)	9.1 A
Rated current, max. number of poles (Tu=40°C)	7 A	Rated voltage for surge voltage class / pollution degree II/2	200 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	80 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	1.5 kV	Short-time withstand current resistance	3 x 1s with 77 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1488444
Rated voltage (Use group B / CSA)	300 V	Rated current (Use group B / CSA)	7 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 18
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)	150 V	Rated voltage (Use group C / UL 1059)	50 V
Rated current (Use group B / UL 1059)	7 A	Rated current (Use group C / UL 1059)	7 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 18
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Packaging	Box	VPE length	350.00 mm	
VPE width	142.00 mm	VPE height	31.00 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, type identification, rated cross- section, type of material	
	Evaluation		available	
	Test		durability	
	Evaluation		passed	
Test: Misengagement (Non- interchangeability)	Standard		DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 60512-7 section 5 / 05.94	
	Test		180° turned without 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	
			Type of conductor stranded 0.2 mm ² and conductor cross-section	
			Type of conductor solid 1.0 mm ² and conductor cross-section	
			Type of conductor stranded 1.0 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 18/1 and conductor cross-section	
			Type of conductor AWG 18/19 and conductor cross-section	
	Evaluation		passed	
Test for damage to and accidental	Standard		DIN EN 60999-1 section 9.4 / 12.00	
oosening of conductors	Requirement		0.2 kg	
	Conductor type		Type of conductor AWG 28/1 and conductor cross-section	
			Type of conductor AWG 28/19 and conductor cross-section	
	Evaluation		passed	
	Requirement Conductor type		0.3 kg Type of conductor solid 0.5 mm ² and conductor cross-	



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Technical data

		Type of conductor stranded 0.5 mm ² and conductor cross-section	
	Evaluation	passed	
	Requirement	0.4 kg	
	Conductor type	Type of conductor solid 1.0 mm ² and conductor cross-section	
		Type of conductor stranded 1.0 mm ² and conductor cross-section	
		Type of conductor AWG 18/1 and conductor cross-section	
		Type of conductor AWG 18/19 and conductor cross-section	
	Evaluation	passed	
Il-out test	Standard	DIN EN 60999-1 section 9.4 / 12.00	
	Requirement	≥5 N	
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section	
		Type of conductor AWG 28/19 and conductor cross-section	
	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	
	Requirement	≥35 N	
	Conductor type	Type of conductor H05V-U1 and conductor cross-section	
		Type of conductor H05V-K1 and conductor cross-section	
		Type of conductor AWG 18/1 and conductor cross-section	
		Type of conductor AWG 18/19 and conductor cross-section	
	Requirement	≥30 N	
	Conductor type	Type of conductor AWG 18/1 and conductor cross-section	
		Type of conductor AWG 18/19 and conductor cross-section	

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 with plastic collar to DIN 46228/4





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Technical data

- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- 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

	<u> </u>		
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		



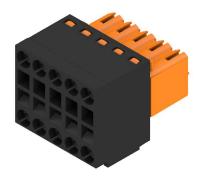
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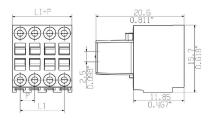
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Drawings

Product image



Dimensional drawing



Graph

