

OMNIMATE Signal - series RSV
RSV1,6 B12 GR

Weidmüller Interface GmbH & Co. KG
 Klingenbergsstraße 16
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 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com



Similar to illustration

Rectangular plug-in connector for use with crimp contacts. Can be used as universal coupling, but also with the PCB variations. The crimp contacts guarantee a high connection density. CS 1.6 or CB 1.6 contacts can be used here. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

General ordering data

Type	RSV1,6 B12 GR
Order No.	1416000000
Version	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 12, 180°, Crimp connection, Clamping range, max. : 3.31 mm ² , Box
GTIN (EAN)	4008190021177
Qty.	25 pc(s).
Product data	IEC: 630 V / 17 A UL: 600 V / 10 A / AWG 26 - AWG 12
Packaging	Box

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Technical data

Dimensions and weights

Net weight 10.84 g

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

system parameters

Product family	OMNIMATE Signal - series RSV	Type of connection	Field connection
Wire connection method	Crimp connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	Conductor outlet direction	180°
No. of poles	12	L1 in mm	15 mm
L1 in inches	0.591 inch	Number of rows	1
Pin series quantity	3	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Can be coded	Yes
Stripping length	4 mm	Plugging force/pole, max.	2 N
Pulling force/pole, max.	2 N		

Material data

Insulating material	Wemid (PA)	Colour	Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
CTI	≥ 600	UL 94 flammability rating	V-0
Contact material	Copper alloy	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, max.	100 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	3.31 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	2.5 mm ²
Max. clamping range	3.31 mm ²		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	17 A
Rated current, max. no. of poles (Tu=20°C)	13 A	Rated current, min. no. of poles (Tu=40°C)	15 A
Rated current, max. no. of poles (Tu=40°C)	11.5 A	Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/2	400 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 1 s with 120 A

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Technical data

Rated data acc. to CSA

Institute (CSA)	Certificate No. (CSA)
	53975-13
Rated voltage (Use group C / CSA)	600 V
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated data acc. to UL 1059

Institute (UR)	Certificate No. (UR)
	E92202
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Box	VPE length	48 mm
VPE width	100 mm	VPE height	134 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002636
ETIM 5.0	EC002636	ETIM 6.0	EC002638
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-01
eClass 6.2	27-26-07-03	eClass 7.1	27-44-01-01
eClass 8.1	27-44-01-01	eClass 9.0	27-44-03-09
eClass 9.1	27-44-03-09		

Notes

Notes	<ul style="list-style-type: none"> Additional colours on request Rated current related to rated cross-section & min. No. of poles. Spacing between rows: see hole layout Rated cross-section depends on crimp contact used. 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. Max. outer diameter of the cable (with insulation): 3.5 mm
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.

Data sheet**OMNIMATE Signal - series RSV
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Technical data**Approvals**

Approvals



ROHS

Conform

DownloadsApproval/Certificate/Document of
Conformity[Declaration of the Manufacturer](#)

Brochure/Catalogue

[MB DEVICE MANUF. EN](#)
[CAT.2 PORTFOLIOGUIDE EN](#)
[FL 72H SAMPLE SER EN](#)
[PO OMNIMATE EN](#)

Engineering Data

[EPLAN, WSCAD](#)

Engineering Data

[RSV1.6.zip](#)

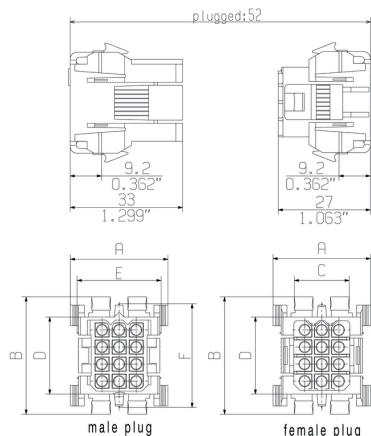
Data sheet

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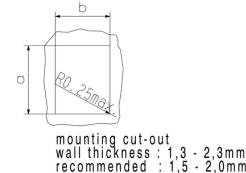
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Drawings

Dimensional drawing

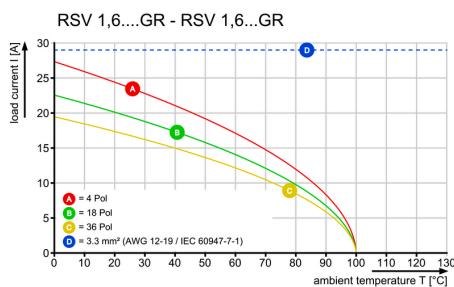


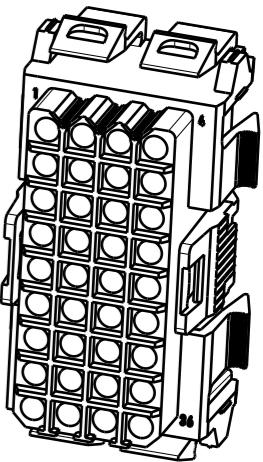
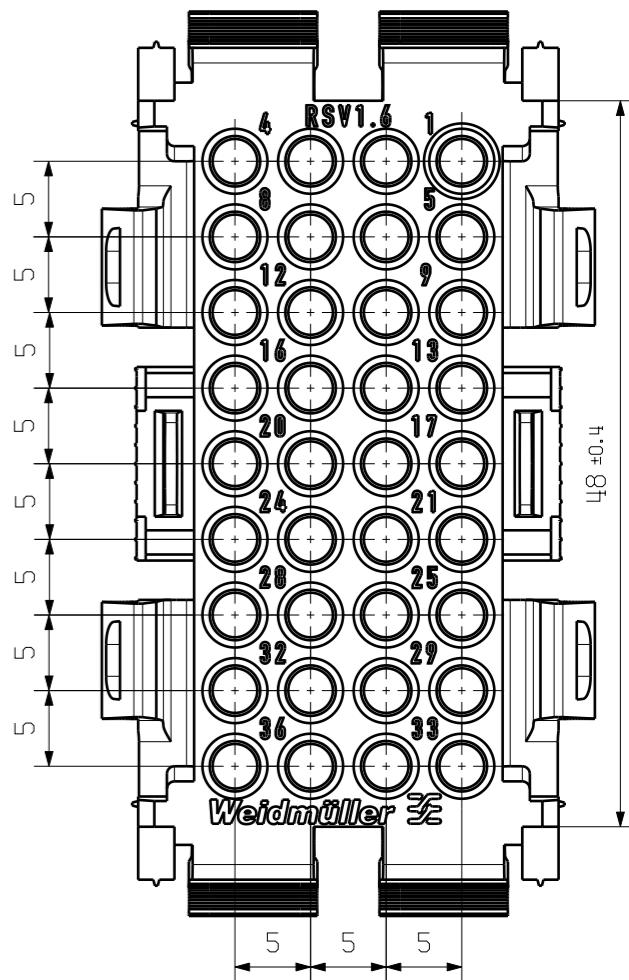
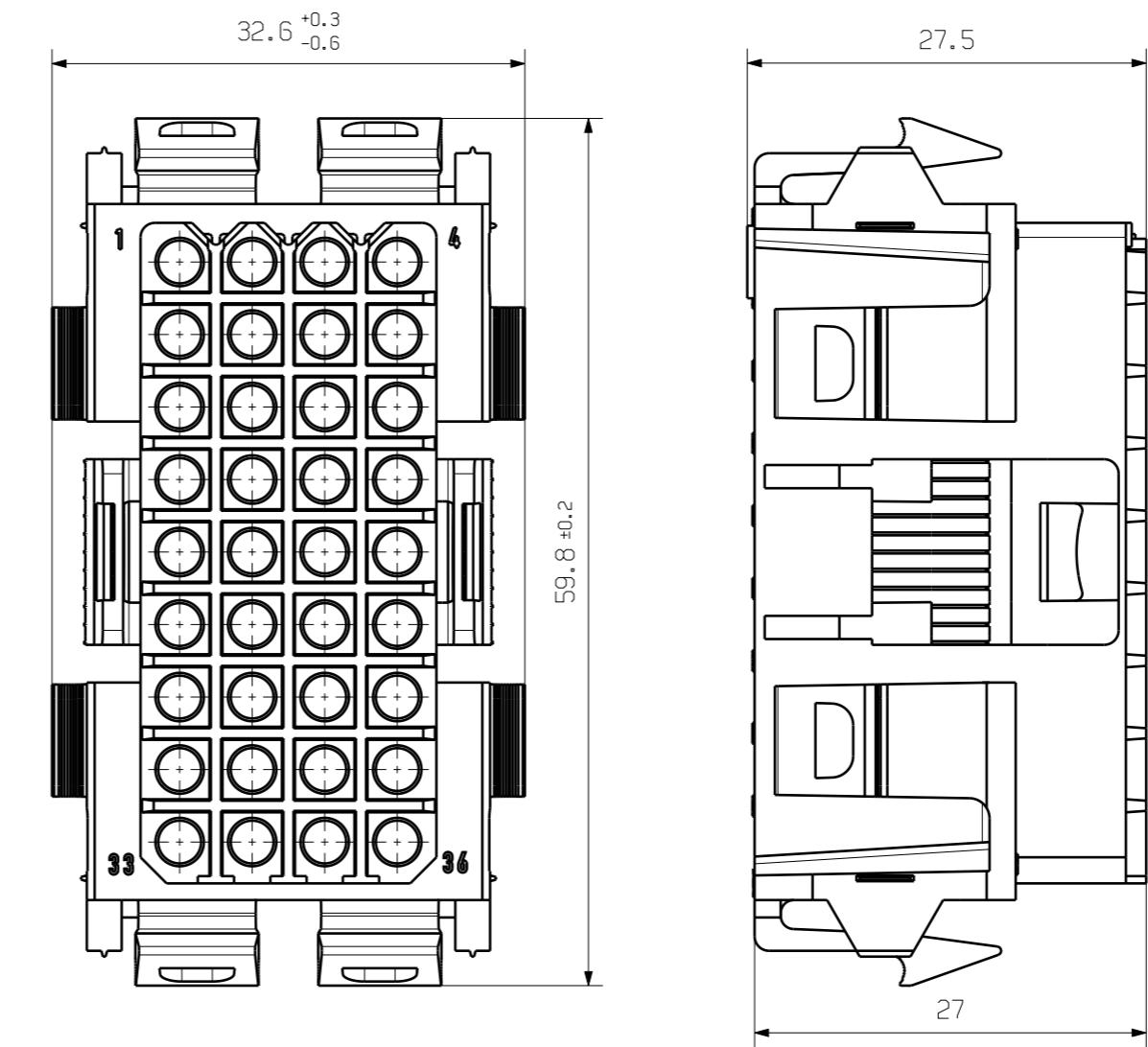
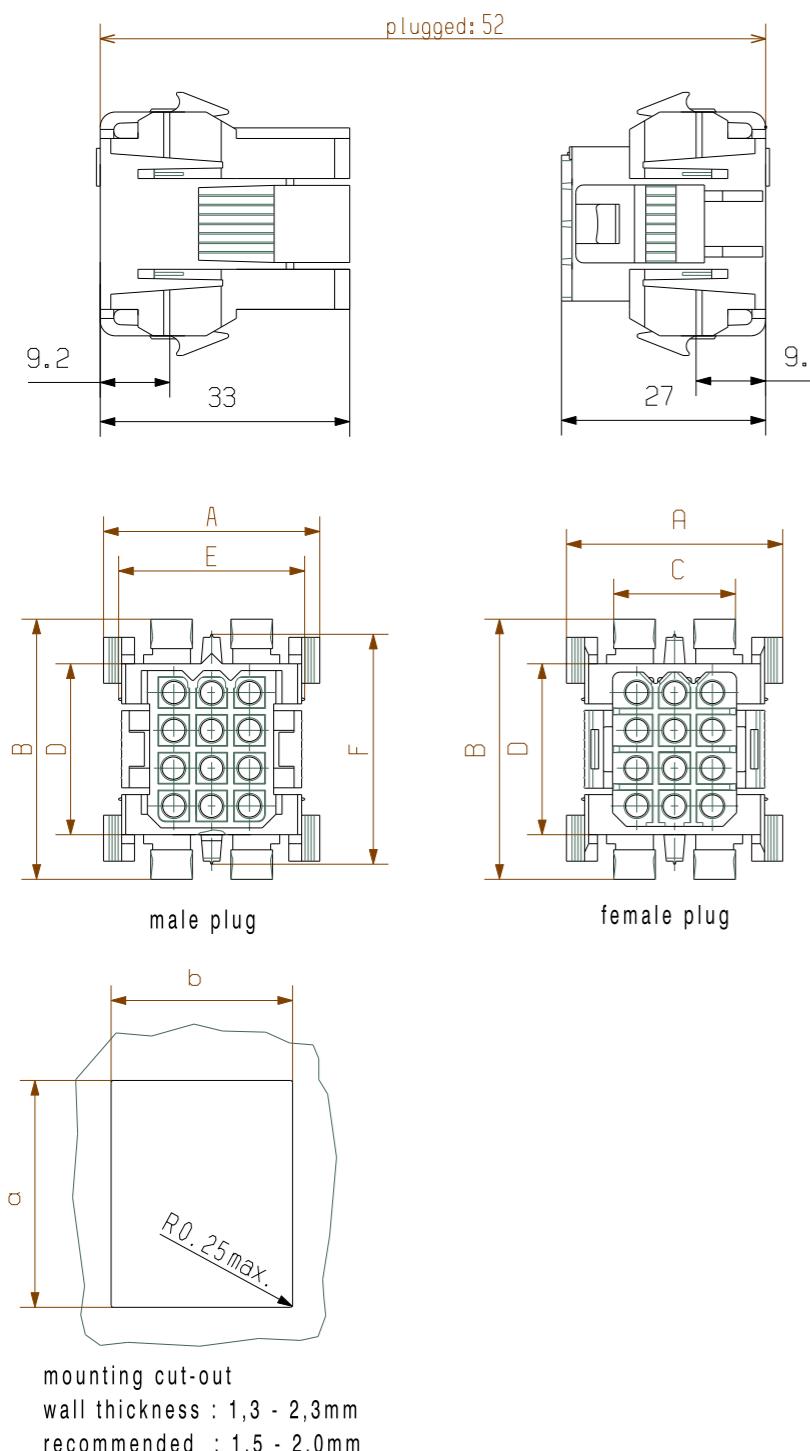
Dimensional drawing



poles	dimension male plug / female plug					mounting cut-out	
	A	B	C	D	E	a 3,3	b 16,2
4	23,0	25,0	10,8	12,8	17,8	20,3	18,1
5	23,0	30,0	10,8	17,8	21,8	23,8	19,1
9	29,0	30,0	16,6	17,6	23,8	25,1	24,0
12	29,0	35,0	16,6	22,6	23,8	30,0	24,0
16	29,0	46,0	16,6	33,0	23,8	40,5	24,0
24	33,0	46,0	20,6	33,0	27,8	40,5	26,3
36	33,0	61,0	20,6	46,0	27,8	55,5	26,3

Graph



Assembly instruction:


For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

poles	dimension male plug / female plug					mounting cut-out	
	A	B	C	D	E	a ^{+0.3} _{-0.0}	b ^{+0.3} _{-0.0}
4	23,0	25,0	10,8	12,8	17,8	20,3	18,1
6	23,0	30,0	10,8	17,6	17,8	25,1	18,1
9	29,0	30,0	16,6	17,6	23,8	25,1	24,0
12	29,0	35,0	16,6	22,6	23,8	30,0	24,0
18	29,0	46,0	16,6	33,0	23,8	40,5	24,0
24	33,0	46,0	20,6	33,0	27,8	40,5	28,3
36	33,0	61,0	20,6	48,0	27,8	55,5	28,3

 RoHS COMPLIANT	General tolerance: DIN ISO 2768-mK		Cat. no.: 1 14927 16
	94488/5 29.06.18 HERTEL_S	01	
Modification			
	Date	Name	
Drawn	25.05.2011	LANG_T	
Responsible	HERTEL_S		
Scale:10:1	Checked	12.07.2018 HERTEL_S	
Supersedes: .	Approved	LANG_T	
Product file: RSV 1.6 CRIMP			

RSV 1.6 B36
BUCHSENGEHÄUSE
SOCKET HOUSING