

RSV1,6 S12 TGY BX

Weidmüller Interface GmbH & Co. KG

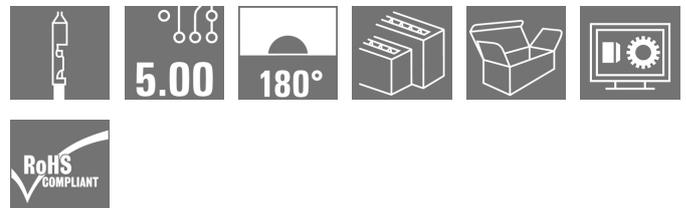
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



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

Version	PCB plug-in connector, male plug, 5.00 mm, Number of poles: 12, 180°, Crimp connection, Clamping range, max. : 3.31 mm ² , Box
Order No.	1218170000
Type	RSV1,6 S12 TGY BX
GTIN (EAN)	4050118001853
Qty.	25 pc(s).
Product data	IEC: 630 V / 17 A UL: 600 V / 10 A / AWG 26 - AWG 12
Packaging	Box

Creation date March 23, 2021 9:10:28 AM CET

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Technical data

Dimensions and weights

Net weight	12.88 g
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System Parameters

Product family		Type of connection	
	OMNIMATE Signal - series RSV		Field connection
Wire connection method	Crimp connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	Conductor outlet direction	180°
Number 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, plugged
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Can be coded	Yes
Stripping length	4 mm	Plugging force/pole, max.	2 N
Pulling force/pole, max.	2 N		

Material data

Insulating material		Colour	
	Wemid (PA)		Traffic grey (RAL)
Colour chart (similar)	RAL 7042	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	UL 94 flammability rating	V-0
Contact material	Copper alloy	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 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

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17 A
Rated current, max. number of poles (Tu=20°C)	13 A	Rated current, min. number of poles (Tu=40°C)	15 A
Rated current, max. number 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 1s 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	Rated current (Use group C / CSA)	13 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)		Certificate No. (UR)	E92202
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	38 mm
VPE width	145 mm	VPE height	240 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	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

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 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 • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Data sheet**RSV1,6 S12 TGY BX**

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Technical data**Approvals**

Approvals



ROHS	Conform
UL File Number Search	E92202

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	WSCAD

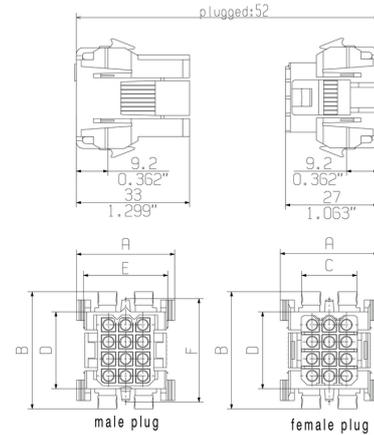
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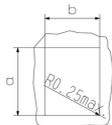
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Drawings

Dimensional drawing



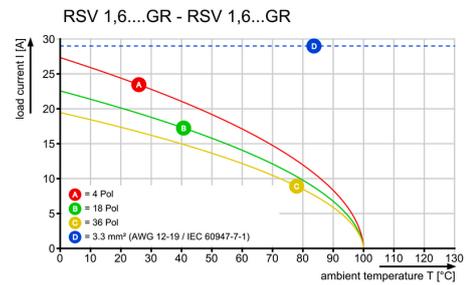
Dimensional drawing



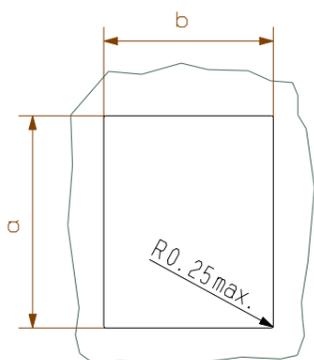
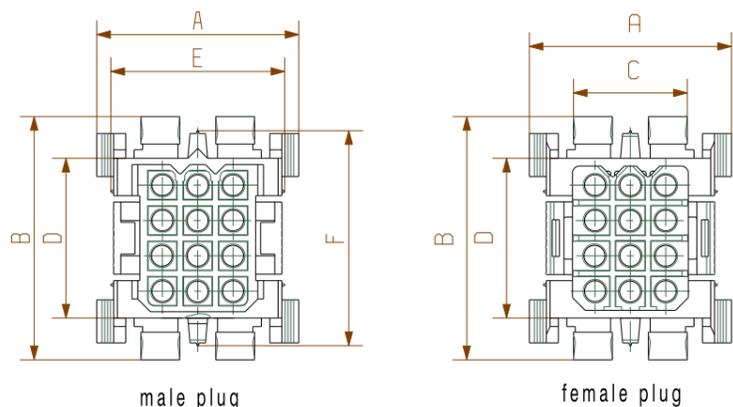
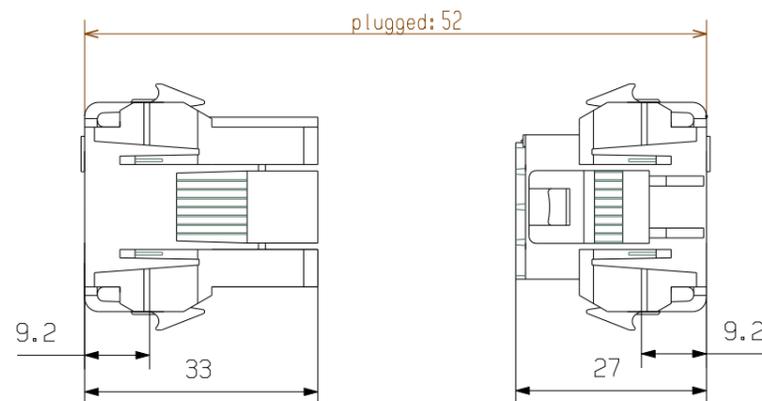
mounting cut-out
 wall thickness : 1,3 - 2,3mm
 recommended : 1,5 - 2,0mm

poles	dimension male plug / female plug					mounting cut-out	
	A	B	C	D	E	a ±0.2	b ±0.2
4	23.0	25.0	10.8	12.8	17.8	20.3	18.1
5	23.0	30.0	10.8	17.6	17.8	25.1	18.1
9	29.0	30.0	16.1	17.6	23.8	25.1	24.0
12	29.0	35.0	16.1	22.6	23.8	30.0	24.0
18	29.0	46.0	16.1	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

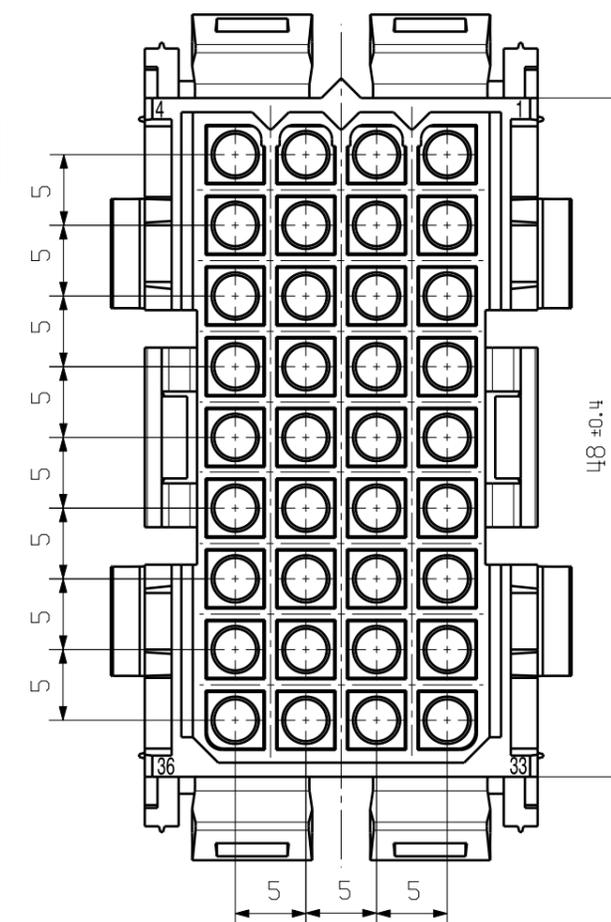
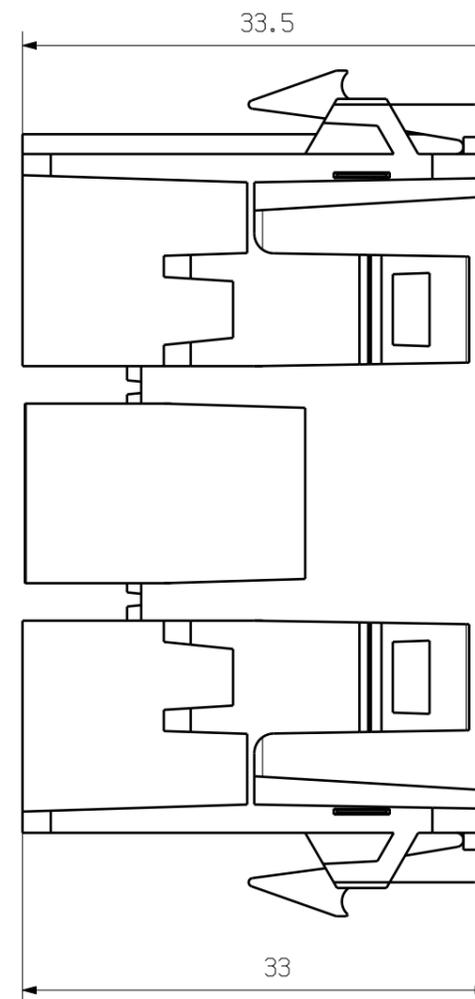
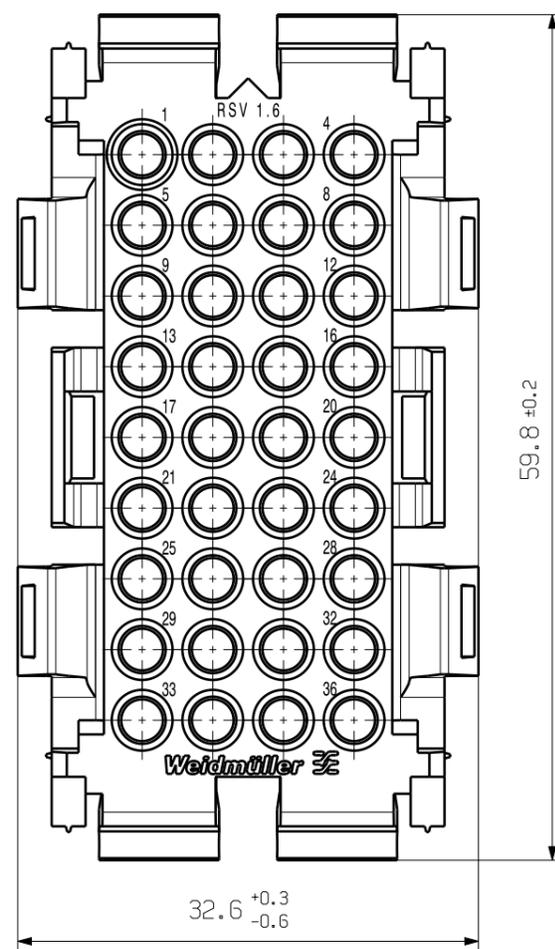
Graph



Assembly instruction:

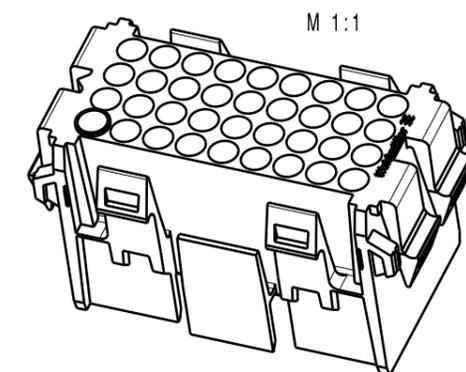


mounting cut-out
wall thickness : 1,3 - 2,3mm
recommended : 1,5 - 2,0mm



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	b ± 0.3
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

General tolerance: DIN ISO 2768-mK		94488/5 29.06.18 HELIS_MA 00		Cat.no.: 141910000	
		Modification			
		Drawn	Date	Name	1 14928 15
		Responsible	Date	Name	Drawing no. 1 14928 Issue no. 15 Sheet 01 of 01 sheets
		Checked	Date	Name	RSV 1.6 S36 STECKERGEHÄUSE PLUG MOULDING
Scale: 10:1		Approved	Date	Name	Product file: RSV 1.6 CRIMP
Supersedes: .				7265	