

## Data Sheet | Item Number: 745-604/011-000

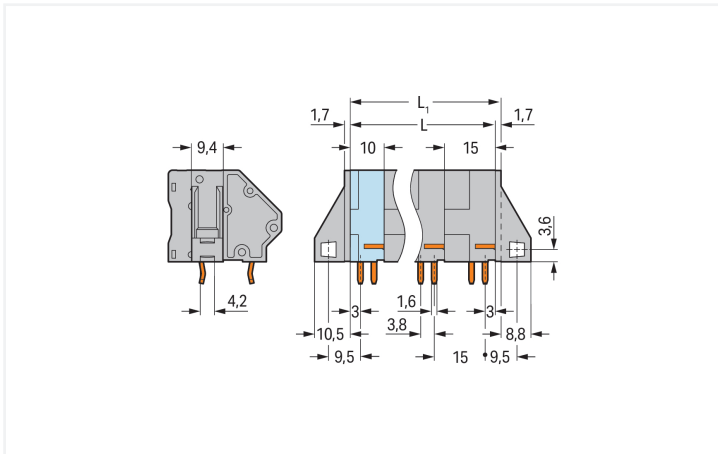
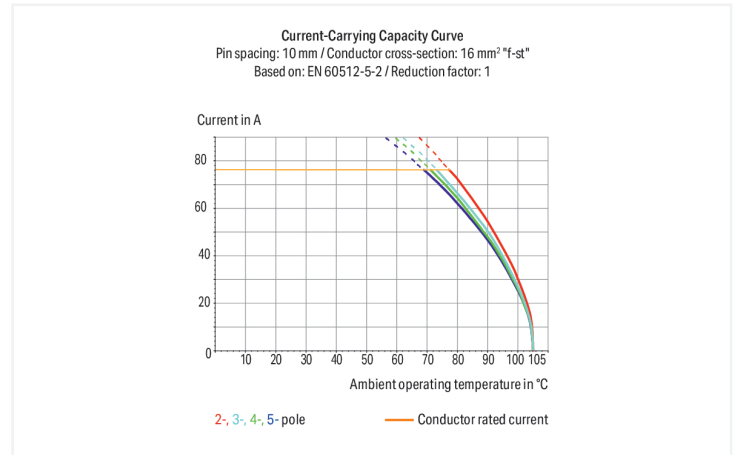
PCB terminal block; 16 mm<sup>2</sup>; Pin spacing 15 mm; 4-pole; CAGE CLAMP®; commoning option; gray

<https://www.wago.com/745-604/011-000>



Color: ■ gray

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 10 \text{ mm}$   
 $L_1 = L + 1.7 \text{ mm}$  version without mounting flange

PCB terminal block, 745 Series, operating tool

Quick and easy connections are guaranteed with this PCB terminal block (item number 745-604/011-000). It is a universal connector that can be used almost anywhere, e.g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Strip lengths must be between 12 and 13 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with CAGE CLAMP®, this product delivers reliable performance. Our CAGE CLAMP® connection offers a dependable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are (76 x 33.5 x 33.4) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 16 mm<sup>2</sup>.

The contact surface is coated with tin. An operating tool is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. Insert the conductor at a 45° angle..

## Notes

Variants:	Other pole numbers Versions for Ex e II and Ex i Versions for Ex i Other colors Mixed-color PCB connector strips Versions with mounting flanges Direct marking Solder pin length: 5 mm Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .
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## Electrical data

Ratings per	IEC/EN 60664-1			Approvals per	UL 1059		
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	300 V	300 V	600 V
Nominal voltage	630 V	1000 V	1000 V	Rated current	65 A	65 A	5 A
Rated impulse withstand voltage	8 kV	8 kV	8 kV				
Rated current	76 A	76 A	76 A				

Approvals per	CSA		
Use group	B	C	D
Rated voltage	300 V	300 V	600 V
Rated current	65 A	65 A	5 A

## Connection Data

Clamping units	4	<b>Connection 1</b>	
Total number of potentials	4	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Solid conductor	0.2 ... 16 mm <sup>2</sup> / 24 ... 6 AWG
Number of jumper slots	1	Fine-stranded conductor	0.2 ... 16 mm <sup>2</sup> / 24 ... 6 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 10 mm <sup>2</sup>
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 10 mm <sup>2</sup>
		Strip length	12 ... 13 mm / 0.47 ... 0.51 inches
		Conductor connection direction to PCB	45°
		Pole number	4

## Physical data

Pin spacing	15 mm / 0.591 inches
Width	76 mm / 2.992 inches
Height	33.5 mm / 1.319 inches
Height from the surface	27 mm / 1.063 inches
Depth	33.4 mm / 1.315 inches
Solder pin length	6.5 mm
Solder pin dimensions	1.2 x 1.6 mm
Drilled hole diameter	2.2 <sup>(+0.1)</sup> mm

### Mechanical data

Mounting type	Mounting flange
Mounting type	Panel mounting

### PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	4

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0.704 MJ
Weight	44.9 g

### Environmental requirements

Limit temperature range	-60 ... +105 °C
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### Commercial data

Product Group	4 (Printed Circuit Connectors)
PU (SPU)	16 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918302982
Customs tariff number	85369010000

### Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 10.0	EC002643
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**General approvals**



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	1604421
UR Underwriters Laboratories Inc.	UL 1059	E45172

**Downloads**

**Environmental Product Compliance**

**Compliance Search**

Environmental Product Compliance 745-604/011-000	↓
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**Documentation**

**Additional Information**

Technical Section	03.04.2019	pdf 2027.26 KB	↓
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**CAD/CAE-Data**

**CAD data**

2D/3D Models 745-604/011-000	↓
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**CAE data**

EPLAN Data Portal 745-604/011-000	↓
ZUKEN Portal 745-604/011-000	↓

**PCB Design**

Symbol and Footprint via SamacSys 745-604/011-000	↓
Symbol and Footprint via Ultra Librarian 745-604/011-000	↓

**1 Compatible Products**

**1.1 Optional Accessories**

**1.1.1 Ferrule**

**1.1.1.1 Ferrule**



**Item No.: 216-262**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-263**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-264**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



**Item No.: 216-209**

Ferrule; Sleeve for 10 mm<sup>2</sup> / AWG 8; insulated; electro-tin plated; red



**Item No.: 216-109**

Ferrule; Sleeve for 10 mm<sup>2</sup> / AWG 8; uninsulated; electro-tin plated



**Item No.: 216-266**

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



**Item No.: 216-267**

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-208**

Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow



**Item No.: 216-108**

Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; uninsulated; electro-tin plated; silver-colored

**1.1.2 Jumper**

**1.1.2.1 Jumper**



**Item No.: 745-632**

Jumper; 2-way; silver-colored



**Item No.: 745-631**

Jumper; 2-way; unplated; silver-colored



**Item No.: 745-633**

Jumper; 3-way; unplated; silver-colored



**Item No.: 745-634**

Jumper; 4-way; silver-colored

**1.1.3 Marking**

**1.1.3.1 Marker**



**Item No.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item No.: 2009-145/000-007**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item No.: 2009-145/000-023**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



**Item No.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item No.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

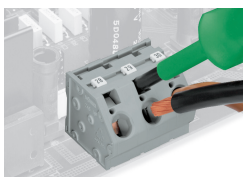


**Item No.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

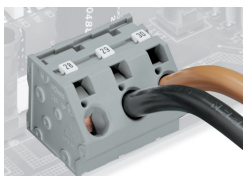
## Installation Notes

### Conductor termination



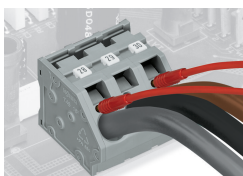
Inserting/removing a conductor via 5.5 mm screwdriver – 745 Series, 16 mm<sup>2</sup>.

### Marking



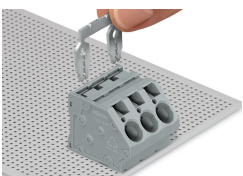
Marking via Mini-WSB and WMB markers or factory direct marking – 745 Series.

### Testing

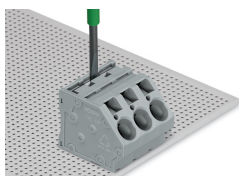


Testing with test plug – 745 Series.

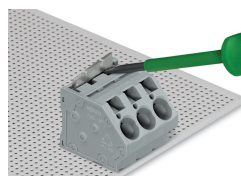
### Commoning



Inserting a comb-style jumper bar.



To insert a comb-style jumper bar, push it down using a screwdriver until it hits the backstop – 745 Series.



To remove the jumper bar, lift it up using a screwdriver – 745 Series.