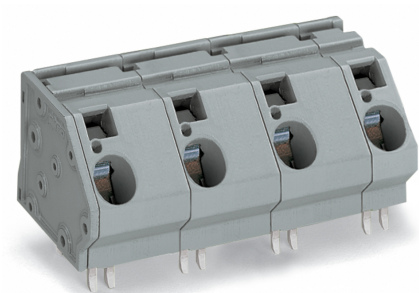


Data Sheet | Item Number: 745-653/006-000

PCB terminal block; 16 mm²; Pin spacing 20 mm; 3-pole; CAGE CLAMP®; commoning option; gray

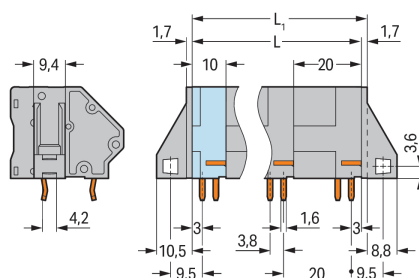
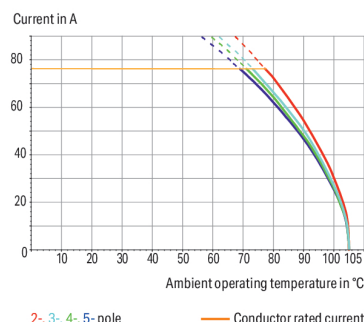
<https://www.wago.com/745-653/006-000>



Color: ■ gray

Similar to illustration

Current-Carrying Capacity Curve
Pin spacing: 10 mm / Conductor cross-section: 16 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1



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

This PCB terminal block (item number 745-653/006-000) is designed to connect conductors quickly and easily. It offers the flexibility needed for different mounting types. Conductors can only be connected to this PCB terminal block if their strip length is between 12 and 13 mm. This product incorporates one conductor terminal and utilizes CAGE CLAMP®. Our renowned universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. The item's dimensions are (51.7 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 mm² to 16 mm².

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

Notes	
Variants:	Other pole numbers Versions for Ex e II and 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 https://configurator.wago.com/ .

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		1000 V	1000 V	1000 V
Rated impulse withstand voltage		12 kV	12 kV	12 kV
Rated current		76 A	76 A	76 A
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		600 V	600 V	-
Rated current		65 A	65 A	-

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

Connection Data	
Clamping units	3
Total number of potentials	3
Number of connection types	1
Number of levels	1
Number of jumper slots	1

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.2 ... 16 mm ² / 24 ... 6 AWG
Fine-stranded conductor	0.2 ... 16 mm ² / 24 ... 6 AWG
Fine-stranded conductor; with insulated fer- rule	0.25 ... 10 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 10 mm ²
Strip length	12 ... 13 mm / 0.47 ... 0.51 inches
Conductor connection direction to PCB	45 °
Pole number	3

Physical data	
Pin spacing	20 mm / 0.787 inches
Width	51.7 mm / 2.035 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 (+0.1) mm

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)		Information on material specifications can be found here
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 _{Cu})
Contact Plating		Tin
Fire load		0.571 MJ
Weight		35.3 g

Environmental requirements		
Limit temperature range		-60 ... +105 °C

Commercial data		
Product Group		4 (Printed Circuit Connectors)
PU (SPU)		20 pcs
Packaging type		Box
Country of origin		PL
GTIN		4044918303071
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

Approvals / Certificates

General approvals			General approvals		
   			UR	UL 1059	E45172
			Underwriters Laboratories Inc.		
Approval	Standard	Certificate Name			
CCA DEKRA Certification B.V.	EN 60947	2160584.14			
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7094			
CSA DEKRA Certification B.V.	C22.2 No. 158	1604421			

Downloads

Compliance Search	
Environmental Product Compliance	↓
745-653/006-000	

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD data
2D/3D Models
745-653/006-000

PCB Design	
Symbol and Footprint via SamacSys 745-653/006-000	
Symbol and Footprint via Ultra Librarian 745-653/006-000	



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 ² / 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 ² / 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 ² / 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 ² / AWG 8; insulated; electro-tin plated; red
 Item No.: 216-109 Ferrule; Sleeve for 10 mm ² / AWG 8; uninsulated; electro-tin plated	 Item No.: 216-266 Ferrule; Sleeve for 2.5 mm ² / 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 ² / 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 ² / 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 ² / AWG 10; uninsulated; electro-tin plated; silver-colored			
1.1.2 Jumper			
1.1.2.1 Jumper			
 Item No.: 745-681 Jumper; 2-way; unplated; silver-colored	 Item No.: 745-682 Jumper; 2-way; unplated; silver-colored	 Item No.: 745-683 Jumper; 3-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.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	 Item No.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	 Item No.: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	 Item No.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green
 Item No.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	 Item No.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	 Item No.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	 Item No.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



1.1.3.1 Marker



Item No.: 248-501/000-002
Mini-WSB marking card; as card; not stretch-
able; plain; snap-on type; yellow



Item No.: 793-5501/000-006
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; blue



Item No.: 793-5501/000-007
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; gray



Item No.: 793-5501/000-023
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; green



Item No.: 793-5501/000-017
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; light green



Item No.: 793-5501/000-012
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; orange



Item No.: 793-5501/000-005
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; red



Item No.: 793-5501/000-024
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; violet



Item No.: 793-5501
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; white



Item No.: 793-5501/000-002
WMB marking card; as card; for terminal
block width 5 - 17.5 mm; stretchable 5 - 5.2
mm; plain; snap-on type; yellow



Item No.: 793-501
WMB marking card; as card; not stretchable;
plain; snap-on type; white



Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; blue



Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; gray



Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; green



Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; light green



Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; orange



Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; violet



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; white



Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; yellow

1.1.4 Test and measurement

1.1.4.1 Testing accessories



Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

1.1.5 Tool

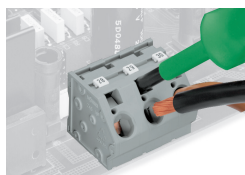
1.1.5.1 Operating tool



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a
partially insulated shaft; multicoloured

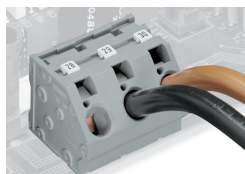
Installation Notes

Conductor termination



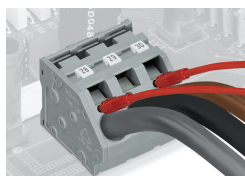
Inserting/removing a conductor via 5.5 mm screwdriver – 745 Series, 16 mm².

Marking



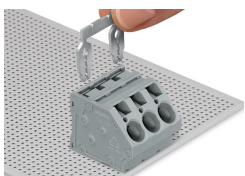
Marking via Mini-WSB and WMB markers or factory direct marking – 745 Series.

Testing

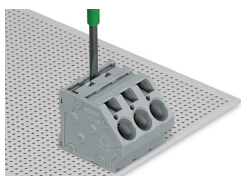


Testing with test plug – 745 Series.

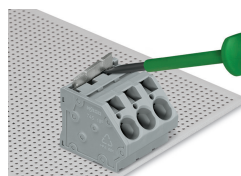
Commoning



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.