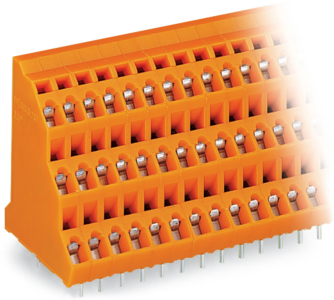
Data Sheet | Item Number: 737-416/000-004

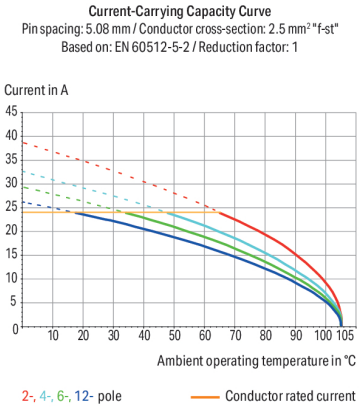
Triple-deck PCB terminal block; 2.5 mm²; Pin spacing 5.08 mm; 48-pole; CAGE CLAMP®; black

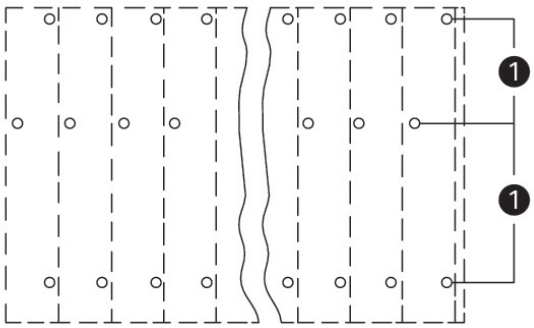
https://www.wago.com/737-416/000-004



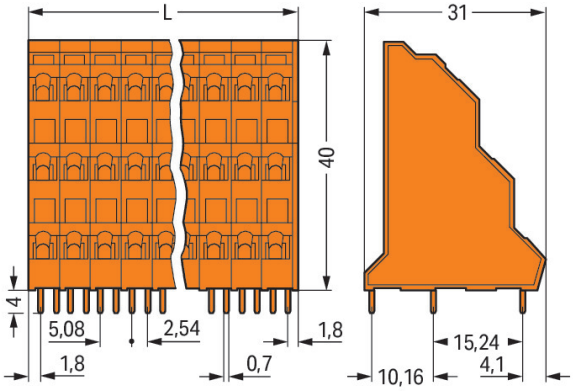
Color: ■ black

Similar to illustration





(1) Solder pins for deck 2 staggered by half the pin spacing



Dimensions in mm
L = ((pole no. / 3) x pin spacing) + 1.1 mm

PCB terminal block, 737 Series, CAGE CLAMP®

This PCB terminal block (item number 737-416/000-004) streamlines wire connections, making them both quick and easy. You can count on trusted safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. Strip lengths must be between 5 and 6 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. The item's dimensions are (82.38 x 44 x 31) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm².

Tin is used for coating the contact surfaces. This PCB terminal block is operated with an operating tool. THT is used to solder the PCB terminal block. Insert the conductor at an angle of 45°..

Notes

Variants:	Other pole numbers Other colors Mixed-color PCB connector strips Direct marking Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.

Electrical data

Ratings	between the modules		
Ratings per	IEC/EN 60664-1	IEC/EN 60664-1	IEC/EN 60664-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	320 V	630 V
Rated impulse withstand voltage	4 kV	4 kV	4 kV
Rated current	21 A	21 A	21 A

Ratings	between the decks		
Ratings per	IEC/EN 60664-1	IEC/EN 60664-1	IEC/EN 60664-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated impulse withstand voltage	4 kV	4 kV	4 kV
Rated current	21 A	21 A	21 A

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Approvals per	CSA		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Connection Data

Clamping units	48
Total number of potentials	48
Number of connection types	1
Number of levels	3

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm²
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	5 … 6 mm / 0.2 … 0.24 inches
Conductor connection direction to PCB	45 °
Pole number	48

Physical data

Pin spacing	5.08 mm / 0.2 inches
Width	82.38 mm / 3.243 inches
Height	44 mm / 1.732 inches
Height from the surface	40 mm / 1.575 inches
Depth	31 mm / 1.22 inches
Solder pin length	4 mm
Solder pin dimensions	0.7 x 0.7 mm
Drilled hole diameter with tolerance	1.3 $^{(+0.1)}$ mm

Continued on next page

PCB contact

PCB contact	THT
Solder pin arrangement	within the terminal block (staggered)
Number of solder pins per potential	1

Material data

Note (material data)	Information on material specifications can be found here
Color	black
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	0.949 MJ
Weight	66.3 g

Environmental requirements

Limit temperature range	-60 … +105 °C

Commercial data

PU (SPU)	12 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143672801
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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 737-416/000-004

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB
Gebrückte Klemmenleisten für Leiterplatten		pdf 303.71 KB

CAD/CAE-Data

CAD data

2D/3D Models 737-416/000-004

PCB Design

Symbol and Footprint via SamacSys 737-416/000-004

Symbol and Footprint via Ultra Librarian 737-416/000-004

1 Compatible Products

1.1 Optional Accessories

1.1.1 Test and measurement

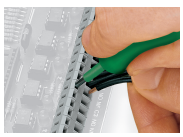
1.1.1.1 Testing accessories

Item No.: 231-426
Testing plug module with contact stud; orange

Item No.: 231-455
Testing plug module with contact stud; Pin spacing 5.08 mm / 0.2 in; 2,50 mm²; orange

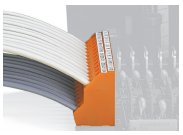
Installation Notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver.
Screwdriver actuation parallel to conductor entry

Installation



Low space requirements due to high-density design
Double-deck PCB terminal strip – 736 Series

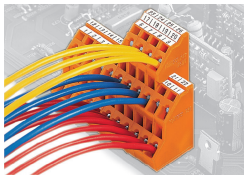
Possible combination:
Double- (736 Series) and triple-deck PCB terminal strips (737 Series) upon request

Possible combination:
Double- (736 Series) and triple-deck PCB terminal strips (737 Series) upon request

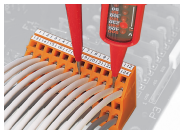
Possible combination:
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

Possible combination:
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

Marking



Testing



Testing via contact area above the conductors.