

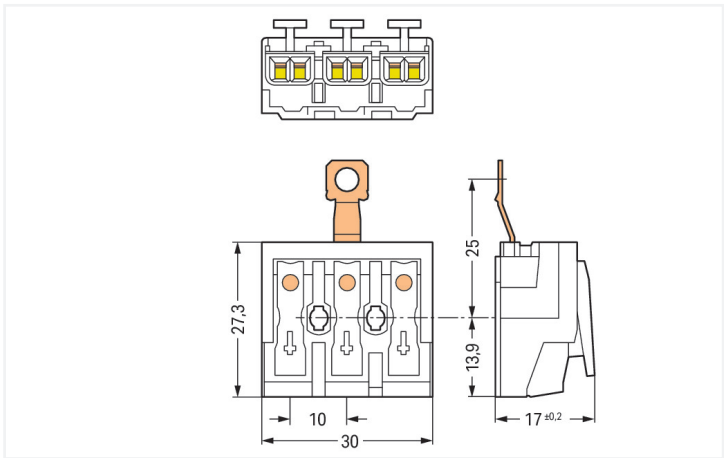
Data Sheet | Item Number: 294-4413

Lighting connector; push-button, external; with screw-type ground contact; 3-pole;
Lighting side: for solid conductors; Inst. side: for all conductor types; max. 2.5 mm²; Sur-
rounding air temperature: max 85°C (T85); white

<https://www.wago.com/294-4413>



Color: ■ white



Dimensions in mm

Field-wiring terminal block, 294 Series, with 10 mm pin spacing

Our field-wiring terminal block (item number 294-4413) is the perfect way to connect conductors quickly and easily. Strip lengths must be between 8 and 9 mm when connecting conductors to this field-wiring terminal block. Featuring four conductor terminals along with Push-in CAGE CLAMP® as well as PUSH WIRE®, this connector is highly versatile. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, offering a key advantage: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. Our tried-and-tested PUSH WIRE® connection offers the fastest method for clamping conductors. It utilizes the conductor's stiffness to overcome the clamping spring's contact force. Dimensions: (30 x 17 x 27.3) mm (width x height x depth). This field-wiring terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 2.5 mm² on one side and for conductor cross sections ranging from 0.5 mm² to 2.5 mm² on the other side as well as conductor cross sections from 0.5 mm² to 2.5 mm² and from 0.5 mm² to 0.75 mm² depending on the conductor type.

The contact surface is coated with tin.

Electrical data				
Ratings per		IEC/EN 60998-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		-	-	500 V
Rated impulse withstand voltage		-	-	4 kV
Rated current		-	-	24 A
Ratings per		IEC/EN 60998-2-2		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		-	-	500 V
Rated impulse withstand voltage		-	-	4 kV
Rated current		-	-	24 A
General information				
Wiring direction		Side-entry wiring		
Ratings (note)		Connection points		

Connection Data			Connection 1	
Clamping units	15		Connection type	External 1
Total number of potentials	3		Connection technology	Push-in CAGE CLAMP®
Number of connection types	4		Number of connection points	2
PE function	Screw-type PE contact		Actuation type	Push-button
			Connectable conductor materials	Copper
			Solid conductor	0.5 ... 2.5 mm² / 18 ... 12 AWG
			Solid conductor; push-in termination	0.5 ... 2.5 mm² / 18 ... 12 AWG
			Stranded conductor	0.5 ... 2.5 mm² / 18 ... 14 AWG
			Fine-stranded conductor	0.5 ... 2.5 mm² / 18 ... 14 AWG
			Fine-stranded conductor; with insulated fer- rule	0.5 ... 1.5 mm² / 18 ... 16 AWG
			Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1.5 mm² / 18 ... 16 AWG
			Fine-stranded conductor; with ferrule; push- in termination	0.5 mm² / 18 AWG
			Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
			Pole number	3

Connection 2	
Connection type	Internal 2
Connection technology	PUSH WIRE®
Number of connection points	1
Actuation type	Push-in
Solid conductor	0.5 ... 2.5 mm² / 18 ... 14 AWG
Fine-stranded conductor; with insulated fer- rule	0.5 ... 1 mm² / 18 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1.5 mm² / 18 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Connection 3	
Connection type	Internal 3
Connection technology	PUSH WIRE®
Number of connection points	1
Actuation type	Push-in
Solid conductor	0.5 ... 1.5 mm² / 18 ... 16 AWG
Fine-stranded conductor; with insulated fer- rule	0.5 ... 0.75 mm² / 18 AWG
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1 mm² / 18 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Connection 4	
Connection type	Internal 4
Connection technology	PUSH WIRE®
Number of connection points	1
Actuation type	Push-in
Solid conductor	0.5 ... 0.75 mm² / 18 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	17 mm / 0.669 inches
Depth	27.3 mm / 1.075 inches



Mechanical data		
Marking		N-⊕-L
Mounting type		without snap-in mounting feet

Material data		
Note (material data)		Information on material specifications can be found here
Color		white
Material group		IIIa
Insulation material (main housing)		Polycarbonate (PC)
Flammability class per UL94		V0
Clamping spring material		Chrome-nickel spring steel (CrNi)
Contact material		Electrolytic copper (E _{Cu})
Contact Plating		Tin
Fire load		0.138 MJ
Halogen-free		Yes
Weight		9.8 g

Environmental requirements		
Temperature stability		120 °C
T marking		T85

Commercial data		
Product Group		8 (Misc. Chassis Mount Blocks)
PU (SPU)		500 pcs
Packaging type		Bag
Country of origin		PL
GTIN		4050821098041
Customs tariff number		85369010000

Product Classification		
UNSPSC		39121409
eCl@ss 10.0		27-14-11-06
eCl@ss 9.0		27-14-11-06
ETIM 9.0		EC001284
ETIM 10.0		EC001284
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption
SCIP notification number (Austria)		217cc0b8-a97d-4bef-8027-0ff7327fe76f
SCIP notification number (Belgium)		886fefca-34b4-4efc-8fa9-b63b4e52dd99
SCIP notification number (Bulgaria)		856784b4-ae01-4e81-a8df-8324d03fa739
SCIP notification number (Czech Republic)		c9d34ce9-9212-425f-a87b-fcdc406923ce
SCIP notification number (Denmark)		20827ca7-c789-4598-929a-1570dc6121d2
SCIP notification number (Finland)		39e4fe78-1cb8-49ae-b108-cd145972b539
SCIP notification number (France)		9514e325-a808-4ffa-9c13-d9392b741556
SCIP notification number (Germany)		4c54ee07-d0c5-42f6-af42-3ad26bcf161b
SCIP notification number (Hungary)		d7c1eef7-62d6-4f54-87f6-34bd250ee2ec
SCIP notification number (Italy)		f546897c-276f-45f9-91c1-53f0c0ec0831
SCIP notification number (Netherlands)		71c7470e-432b-4e74-a43b-f0ac1c971e7e
SCIP notification number (Poland)		4fac6884-509a-4ac4-8efe-89fc4f502054
SCIP notification number (Romania)		7175dce3-6101-4299-9ad8-4dd11988a9b6

General approvals	Declarations of conformity and manufacturer's declarations
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Approval	Standard	Certificate Name
ENEC 05 DEKRA Certification B.V.	EN 60998	2128791.01

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 294-4413

Bid Text			
294-4413	19.02.2019	xml 5.58 KB	↓
294-4413	13.06.2017	doc 28.00 KB	↓

CAD data	CAE data
2D/3D Models 294-4413	WSCAD Universe 294-4413
	ZUKEN Portal 294-4413

1 Compatible Products

1.1 Optional Accessories

1.1.1 Strain relief

1.1.1.1 Strain relief



Item No.: 294-370
Strain relief; for 294 Series; with snap-in mounting feet; white



Item No.: 294-375
Strain relief; for 294 Series; without snap-in mounting feet; white

1.1.1.2 Strain relief plate

Item No.: 294-364
Strain relief plate; for 294 Series; for multi-core cables; 3- to 5-pole; with secured clamp; white

Item No.: 294-384
Strain relief plate; for 294 Series; for single strands; 3- to 5-pole; with secured clamp; white

1.1.2 Tool

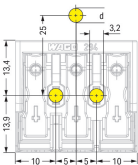
1.1.2.2 Operating tool



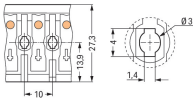
Item No.: 206-294
Disconnection tool; green

Installation Notes

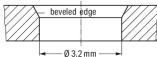
Installation



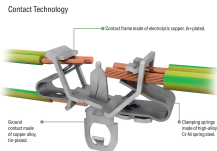
3-pole – with screw-type ground contact, d ≤ 4.1 mm



Mounting hole for screw
Notice: The maximum thread diameter for self-tapping screws is 3 mm.



Hole for screw mount
Notice: The maximum thread diameter for self-tapping screws is 3 mm.



Contact Technology
→ Contact frame made of electrical copper, tin-plated
→ Charging spring made of high alloy (20 Ni) spring steel
→ Contact cover of copper alloy (50 Ni) spring steel

EUROPE
1 x 0.5 ... 2.5 mm ² "s"
1 x 0.5 ... 1.5 mm ² "s"
1 x 0.5 ... 0.75 mm ² "s"

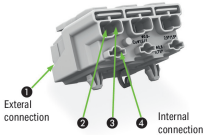
AMERICA
1 x AWG 18 ... 14 "s"
1 x AWG 18 ... 16 "s"
1 x AWG 18 "s"

JAPAN
1 x 0.8 ... 1.6 mm diam. "s"
1 x 0.8 ... 1 mm diam. "s"
1 x 0.8 mm diam. "s"

EUROPE
2 x 0.5 ... 2.5 mm ² "s, str, f-str"

AMERICA
2 x AWG 18 ... 12 "s"
2 x AWG 18 ... 14 "s, f-str"

JAPAN
2 x 0.8 ... 2 mm diam. "s"
2 x 0.5 ... 2 mm ² str, f-str"



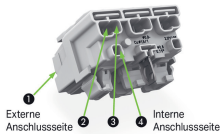
External connection
1
2
3
4
Internal connection

Internal connection:
PUSH WIRE® for internal wiring with solid conductors

External connection:
Push-in CAGE CLAMP® for field-wiring with all conductor types



Conductor termination



Terminating five conductors per pole – solid and fine-stranded.

