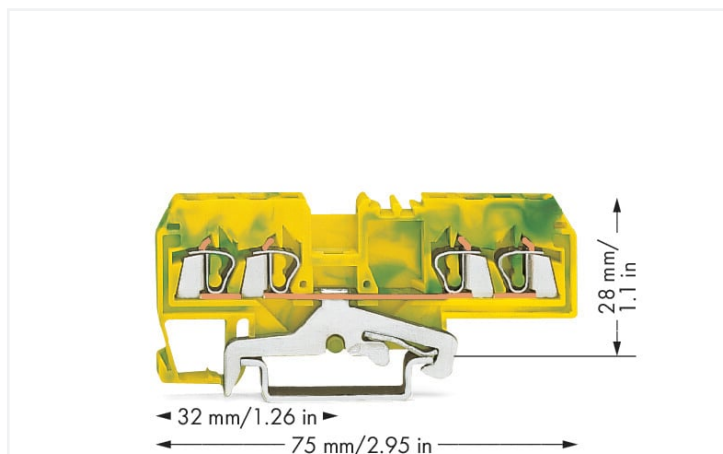


Data Sheet | Item Number: 280-677

4-conductor ground terminal block; 2.5 mm²; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm²; green-yellow

<https://www.wago.com/280-677>



Color: ■ green-yellow

Electrical data

Ratings per	IEC/EN 60947-7-2		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	-
Rated surge voltage	-	-	-
Rated current	-	-	-

Connection data

Connection points	4
Total number of potentials	1
Number of levels	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum

Connection 1

Connectable conductor materials (note)

Terminating Aluminum Conductors

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste [249-130](#) is used for termination.

"Alu-Plus" Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::

2.5 mm² = 16 A

4 mm² = 22 A

Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Wiring direction	Front-entry wiring

Physical data

Width	5 mm / 0.197 inches
Height	75 mm / 2.953 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

Mechanical data

Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Center marking

Material data

Note (material data)	Information on material specifications can be found here
Color	green-yellow
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.132 MJ
Weight	12.8 g

Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data

eCl@ss 10.0	27-14-11-41
eCl@ss 9.0	27-14-11-41
ETIM 8.0	EC000901
ETIM 7.0	EC000901
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454100124
Customs tariff number	85369010000

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	cbc34508-55a4-438b-9c3e-92c55b7384a3
SCIP notification number (Belgium)	7096740a-4d11-4967-9b19-9ffdeca87c3b
SCIP notification number (Bulgaria)	5a1cd21f-01db-41ba-9031-296d1b899701
SCIP notification number (Czech Republic)	a1894330-d1d7-4d57-8139-ecd27f9fad29
SCIP notification number (Denmark)	b96c602f-fc5b-44f0-94cf-300be5b2390a
SCIP notification number (Finland)	a46e6c11-22ea-4b17-b4cc-2e2cfee74f1b
SCIP notification number (France)	ab9895e1-25ef-47b1-af94-9912c21f6394
SCIP notification number (Germany)	060dbd04-84aa-4ad8-a059-eed832151b89
SCIP notification number (Hungary)	182bcced-f5ed-4990-9423-4ace7ab4cc5b
SCIP notification number (Italy)	86c00150-0407-45ff-ad8b-13b6c7a79e92
SCIP notification number (Netherlands)	c264cfe7-8e84-4310-a0de-436a0b307950
SCIP notification number (Poland)	a2f68a63-a794-4196-93a9-838e2832babe
SCIP notification number (Romania)	09f90dac-bf11-4d23-a6c2-e1bc09b9294e
SCIP notification number (Sweden)	259056bd-67a3-40f7-b257-475051e53cf1

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	2157201.01
CSA DEKRA Certification B.V.	C22.2	1536071
UL UL International Germany GmbH	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 280-677 ↓

Documentation

Additional Information
Technical Section pdf 2240.62 KB ↓

CAD/CAE-Data

CAD data
2D/3D Models 280-677 ↓

CAE data
EPLAN Data Portal 280-677 ↓
WSCAD Universe 280-677 ↓
ZUKEN Portal 280-677 ↓

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 280-314

End and intermediate plate; 2.5 mm thick; gray

Item No.: 280-315

End and intermediate plate; 2.5 mm thick; orange

Item No.: 280-334

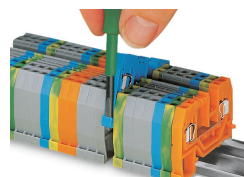
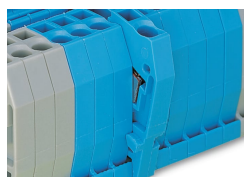
Separator plate; 2 mm thick; oversized; gray

Item No.: 280-335

Separator plate; 2 mm thick; oversized; orange

Installation Notes

Installation

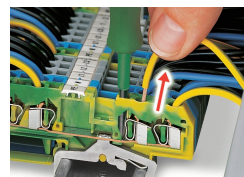
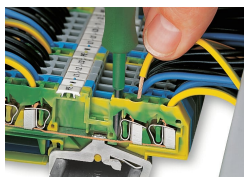


Snapping a ground conductor block onto the DIN-rail automatically makes a direct electrical connection to the rail.

Quick assembly keys prevent reverse mounting.

Removing a terminal block from the assembly.

Conductor termination



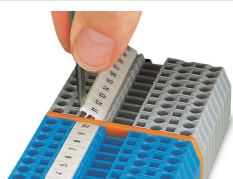
CAGE CLAMP® connection
Inserting a conductor.

CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.

CAGE CLAMP® connection
Removing a solid conductor.

Inserting insulation stops.

Marking



Labeling via WMB Multi Marking System.