



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx PTB 19.0011U

Issue No: 0

Certificate history:

Issue No. 0 (2019-03-22)

Status: **Current**

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Date of Issue: **2019-03-22**

Applicant: **WAGO Kontakttechnik GmbH & Co. KG**
Hansastraße 27
32423 Minden
Germany

Ex Component: **COMPACT splicing wire connector type 221-68*, adapter 221-511**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety "eb"**

Marking:

Ex eb IIC Gb or Ex eb I Mb


Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Department "Explosion Protection in Energy Technology"

Signature:
(for printed version)


25.03.19

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **WAGO Kontakttechnik GmbH & Co. KG**
Hansastraße 27
32423 Minden
Germany

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex Component covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The Ex Component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/PTB/ExTR19.0007/00

Quality Assessment Report:

DE/PTB/QAR06.0003/10



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Schedule

Ex Component(s) covered by this certificate is described below:

COMPACT splicing wire connector type 221-68* with two, three or five clamping units with lever, composed of insulating envelope (polycarbonate/PC) and connection facilities with CAGE CLAMP ® (cage clamp). Mandatory accessory for use is the adapter 221-511. Alternatively, various, separately certified mounting adapters may be used. The COMPACT splicing wire connector is fastened on the adapter. The adapter is fastened to mounting rails or by screws on flat surfaces.

The terminal is used to connect copper conductors in terminal compartments of the type of protection increased safety "eb" and protection by enclosure "ta, tb, tc".

Technical data and Nomenclature see Annex.

SCHEDULE OF LIMITATIONS:

The COMPACT Splicing wire connectors shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0, clause 1 or IEC 60079-31.

When installing the COMPACT Splicing wire connectors in an enclosure designed to Increased Safety "e" type of protection as specified in EN 60079-7, the clearance and creepage distances shown in table 2 shall be duly considered.

If accessories are used, the instructions for installation provided by the manufacturer shall be observed.

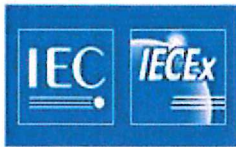
In order to maintain the clearance and creepage distances as well as a fixed position, the splicing wire connector is approved only with adapter type 221-511.

Other adapters or other suitable fixture shall be evaluated to fulfil the creepage and clearance requirements of IEC 60079-7 and shall be separately approved for this application.

All technical specifications are contained in the technical data section of this certificate.

Annex:

COCA190011U-00.pdf



Applicant: WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27, 32423 Minden
Germany

Electrical Apparatus: COMPACT splicing wire connector type 221-68*,
adapter 221-511

Description of equipment

COMPACT splicing wire connector with lever type 221-68* with two, three or five clamping units, composed of insulating envelope (polycarbonate/PC) and connection facilities with CAGE CLAMP® (cage clamp). Mandatory accessory for use is the adapter 221-511. Alternatively, various, separately certified mounting adapters may be used. The COMPACT splicing wire connector is fastened on the adapter. The adapter is fastened to mounting rails or by screws on flat surfaces.

The terminal is used to connect copper conductors in terminal compartments of the type of protection increased safety "eb" and protection by enclosure "ta, tb, tc".

Technical data

Rating	Type 221		
	-682	-683	-685
Rated insulation Voltage (without distance element and/or nonconductive screw)	250 V	250 V	250 V
Rated insulation Voltage (with distance element and/or non-conductive screw)	400 V	400 V	400 V
Rated Voltage (without distance element and/or nonconductive screw)	275 V	275 V	275 V
Rated Voltage (with distance element and/or non-conductive screw)	440 V	440 V	440 V
Max. current temperature rise 40 K	37 A	37 A	37 A
Rated cross section	6.0 mm ²		
Capacity single-, fine- and multicore	0.5 – 6.0 mm ²		
Number of wires per clamping point	1		
Resistance	0.3 mΩ		
Service Temperature range	-55 °C to 105 °C		



Nomenclature

COMPACT Splicing wire connector	221	-68	*
1	2	3	4

- 1: Type designation
2: Series
3. Transparent Housing, Gray color lever
4. Number of Poles
 2 – Poles
 3 – Poles
 5 – Poles

Accessories

Adapter grey	221-511
Mounting foot / spacer	209-120 209-137