

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Terminal Block**with type designation(s)
221, 222, 224, 273, 2273, 773

Issued to

WAGO Kontakttechnik GmbH & Co. KG
Minden, Germanyis found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2022-06-17**.Issued at **Hamburg** on **2018-06-26**DNV GL local station: **Magdeburg**Approval Engineer: **Heinz Scheffler**for **DNV GL**.....
Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-022474-2**
 Certificate No: **TAE000015T**
 Revision No: **1**

Product description
Splicing connector Series 221, 222.

Material: Insulation housing: Polyamid 6.6
 Contact bridge: HC copper, contact face tinned
 Clamping spring: Stainless Steel

Type designation	Item No.	Rated Voltage (V)	Rated Current (A)	Rated Cross-Section (mm ²)	Description
Series 221	221-412 221-413 221-415	450	32	4	Splicing connector
Series 221	221-612 221-613 221-615	450	41	6	Splicing connector
Series 222	222-412 222-413 222-414 222-415	400	32	4	Splicing connector

Connectors for Junction Boxes Series 273, 773 and 2273.

Type designation	Item No.	Rated Voltage (V)	Rated Current (A)	Rated Cross-Section (mm ²)	Description
Series 273	273-100 273-101 273-108 273-153 273-155 273-158 273-163 273-165 273-173 273-175 273-178	400	17,5	1,5	Push wire for junction boxes
	273-102 to -105 273-112 273-114 273-124 273-125 273-135 to -139 273-202 to -205 273-212 273-242 to -245 273-252 to -255 273-258 273-262 to -268	400	24	2,5	Push wire for junction boxes
	273-403 273-453 273-463 273-503	400	32	4	Push wire for junction boxes

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Series 773	773-1xx 773-2xx 773-3xx 773-4xx	400	24	2,5	Push wire connector
Series 2273	2273-xxx	450	24	2,5	Push wire connector

Lighting Connectors Series 224

Series 224	224-101 224-114 224-201	380	24	2,5	Lighting connector
	224-104 224-112	400	24	2,5	Lighting connector

Application/Limitation

Terminations in accordance with the manufacturer's instructions.
For use inside switchboards or enclosures.

Type Approval documentation

Test Reports: NL-7223 (12.02.2014); 28061 (19.12.2016); 25955 (11.05.2015); 2168803.50 (12.02.2014); 2220573.50 (05.02.2018); 71-101850; ENEC-01360 (04.03.2016); 12791 (08.01.2004); 12816 (13.02.2004); 2527 (05.10.2007); CCA 2612 (28.10.2015); CCA D-03479-A1 (24.12.2014); 18191 (30.01.2009); 40029794 (7.4.2010); 2273 28060 (15.12.2016); 2191517.50 (15.07.2016)
Documents: Rail-Mounted Terminal Block Systems ; Full Line Catalog, Volume 1 – Edition 2017/2018

Tests carried out

EN 60998-1:2004

EN 60998-2-2:2004

Vibration test class A in accordance with DNVGL-CG-0339, November 2016

Marking of product

- Wago - Type Designation - Voltage - Cross-section.
- Name/code of manufacturing site at product or packing only.
- Wago, MCS (Multi connecting system) and cross-section.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE