

# NOTIFICATION OF TEST RESULTS

Issued to: WAGO GmbH & Co. KG  
Hansastraße 27, 32423 Minden/westfalen, Germany

For the product: Splicing wire connectors

Trade name: WAGO

Type/Model: 221

Manufactured by: WAGO GmbH & Co. KG  
Hansastraße 27, 32423 Minden/westfalen, Germany

Ratings: 450 V, 32 A, 4 mm<sup>2</sup>

Additional information: This NTR replaces NTR NL-7827 issued on 30 March 2021, due to the fact that new lever material is added.  
See Annex for factory locations  
E-CTF 3

**A sample of the product has been tested and found to be in conformity with the current HD/EN and equivalent national standard**  
EN 60998-1:2004, EN 60998-2-2:2004

**As shown in the Test Report**  
2270581.50

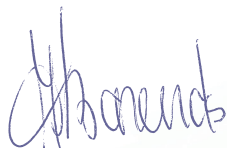
This Notification of Test Results is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard.

This Notification of Test Results has been established by a body, which participates in the CENELEC Certification Agreement (CCA) of 11th September 1973 as amended on 29th March 1983. Any other body participating in the CCA will take this Notification as a basis for granting a national mark of conformity or a national approval as specified in the CCA, as long as the standard referred to above is still in force in the country of that body.

Arnhem, 7 July 2023

Number: NTR NL-7990

DEKRA Certification B.V.



H.R.M Barends  
Certification Manager

© Integral publication of this attestation and adjoining reports is allowed

**CCA**  
**CENELEC CERTIFICATION AGREEMENT**  
**ACCORD DE CERTIFICATION DU CENELEC**

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands  
T +31 88 96 83000 F +31 88 96 83100 www.dekra.nl Company registration 09085396

**Annex**

**CCA  
CENELEC CERTIFICATION AGREEMENT  
ACCORD DE CERTIFICATION DU CELENEC**

Ref. no. NTR NL 7990  
Page 1 of 1

Factory locations:

Wago Elwag sp.z.o.o.  
ul. Piekna 58 a  
50-506, Wroclaw  
Poland

Wago Elwag  
Innowacyjna 2  
55-330 Wroblowice  
Poland

WAGO Private Limited  
Block No. 94, National Highway-8  
Village Vadsala – Varnama, Vadodara, Gujarat-391243  
India

Wago Electronic (Tianjin) Co. Ltd.  
No. 5 Quanhui Road  
Wu Qing Development Area  
301700 Tianjin  
China

WAGO GmbH & Co. KG  
Hansastraße 27, 32423 Minden/Westfalen  
Germany

WAGO GmbH & Co. KG, Werk Sondershausen  
Waldstrasse 1, 99706, Sondershausen  
Germany

WAGO Contact S.A.  
Route de l'Industrie 19, CP 168, 1564, Domdidier  
Switzerland

WAGO GmbH & Co. KG  
Cammer Str. 17,  
32423 Minden  
Germany

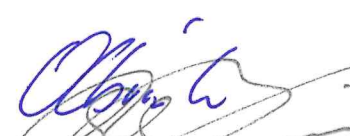





OD ECS 040-1  
January 2019

Responsible CB




### TEST REPORT SUMMARY

Report Number.....	2270581.50	
Date of issue.....	2023-04-11	
Tested by (name, function, signature):	J. Olbrich (Engineer)	
Witnessed by (name, function, signature):	H.L. Schendstok (Project Manager Industrial Safety)	
Approved by (name, function, signature):	R. Gioia (Team leader)	
Supervised by (name, function, signature):	F. Fu (Project Manager Industrial Safety)	

Testing Laboratory.....	DEKRA Certification B.V.	
Address .....	Meander 1051, 6825 MJ Arnhem, The Netherlands	
Testing procedure.....	<input type="checkbox"/> ENEC	<input checked="" type="checkbox"/> CCA NTR
	<input type="checkbox"/> ENEC based on IECIEE CBTC with number: .....	
Customer Testing Procedure.....	<input type="checkbox"/> TMP/CTF Stage 1	<input type="checkbox"/> WMT/CTF Stage 2 <input checked="" type="checkbox"/> SMT/CTF Stage 3

Applicant.....	WAGO GmbH & Co. KG	
Address .....	Hansastraße 27, 32423 Minden/Westfalen, Germany	
Manufacturer.....	WAGO GmbH & Co. KG	
Address .....	Hansastraße 27, 32423 Minden/Westfalen, Germany	

Product.....	Splicing wire connector	
Model/Type reference .....	Series 221	
Trademark .....		
Ratings .....	450 V, 32 A, 4 mm <sup>2</sup>	

Certification Scheme .....	<input type="checkbox"/> ENEC	<input checked="" type="checkbox"/> CCA	<input type="checkbox"/> Other: _____
Standard(s).....	EN 60998-2-2: 2004 in conjunction with EN 60998-1:2004		
<input checked="" type="checkbox"/> The text of the a.m. European Standard was approved by CENELEC is equivalent with the corresponding IEC Publication.			
<input checked="" type="checkbox"/> The text of the a.m. European Standard was approved by CENELEC with agreed common modifications and is <u>not</u> equivalent with the corresponding IEC Publication. An EU Deviation Addendum has to be issued.			

**This EN test report consists of the following parts:**

<input checked="" type="checkbox"/> IEC Test Report Number.....	2270581.50
<input checked="" type="checkbox"/> EU Deviation Addendum.....	2270581.50 Annex A

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 This ECS document together with the test report is only valid if signed by an approved ENEC or CCA Testing Laboratory and accompanied by the associated ENEC Licence or CCA Notification of Test Results, issued by a Certification Body member of ECS.

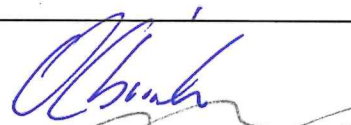
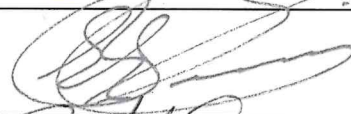
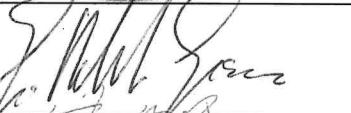
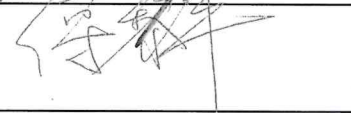


Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 60998-2-2</b> <b>Connecting devices for low voltage circuits for household and similar purposes</b> <b>Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units</b>	
Report Number. ....:	2270581.50
Date of issue .....	2023-04-11
Total number of pages .....	41
Name of Testing Laboratory preparing the Report .....	DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem, The Netherlands
Applicant's name .....	WAGO GmbH & Co. KG
Address .....	Hansastraße 27, 32423 Minden/Westfalen, Germany
<b>Test specification:</b>	
Standard .....	IEC 60998-2-2:2002 for use in conjunction with IEC 60998-1:2002
Test procedure.....	CB Scheme
Non-standard test method .....	N/A
TRF template used .....	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No.....	IEC60998_2_2C
Test Report Form(s) Originator.....	DEKRA Certification B.V.
Master TRF .....	Dated 2020-08-28
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The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

<b>Test item description.....:</b>	<b>Splicing wire connector</b>
Trade Mark .....	<b>WAGO</b>
Manufacturer .....	<b>WAGO GmbH &amp; Co. KG</b>
Model/Type reference.....:	<b>Series 221</b>
Ratings .....	<b>450 V, 32 A, 4 mm<sup>2</sup></b>

<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input type="checkbox"/>	<b>CB Testing Laboratory</b>	
Testing location/ address.....:		
<input type="checkbox"/>	<b>Associated CB Testing Laboratory:</b>	
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Approved by (name, function, signature)....:		
<hr/>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 1:</b>	
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Approved by (name, function, signature)....:		
<hr/>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 2:</b>	
Testing location/ address.....:		
Tested by (name + signature) .....		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)....:		
<hr/>		
<input checked="" type="checkbox"/>	<b>Testing procedure: CTF Stage 3:</b>	<b>WAGO GmbH &amp; Co. KG</b>
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 4:</b>	
Testing location/ address.....:		<b>Hansastraße 27, 32423 Minden/Westfalen, Germany</b>
Tested by (name, function, signature).....:		J. Olbrich (Engineer) 
Witnessed by (name, function, signature)..:		H.L. Schendstok (Project Manager Industrial Safety) 
Approved by (name, function, signature)....:		R. Gioia (Team Leader) 
Supervised by (name, function, signature) :		F. Fu (Project Manager Industrial Safety) 

<p><b>List of Attachments (including a total number of pages in each attachment):</b></p> <p>Annex A: EN 60998-1 CENELEC COMMON MODIFICATIONS and EN 60998-2-2 CENELEC COMMON MODIFICATIONS (2 pages) Annex B: EN 60998-1 SPECIAL NATIONAL CONDITIONS, United Kingdom (1 page)</p>	
<p><b>Summary of testing:</b></p>	
<p><b>Tests performed (name of test and test clause):</b></p> <p><b>First Edition, 2168803.50:</b> Complete type-testing Tests are carried out on type 221-415 unless otherwise stated.</p> <p><b>Second Edition, 2221141.50:</b> This report replaces report 2168803.50 issued on 2014-02-12 Due to the fact of re-verification a temperature-rise test (clause 15) on 221-415 is carried out.</p> <p><b>Third Edition, 2224732.50:</b> This report replaces report 2221141.50 issued on 2017-10-19 Due to the fact that types 221-482, 221-483 and 221-485 are added. The following tests are carried out: clause 12.1, 12.2, 13.3, 13.4, 14.101, 14.2, 16.2, 16.3, 18, 19</p> <p><b>Fourth Edition, 2245563.50:</b> This report replaces report 2224732.50 issued on 2018-08-21, due to the fact that types 221-2401 and 221-2411 are added. The following tests are carried out under CTF3: clause 8, 9, 10, 10.104, 10.105, 10.106, 11, 12.1, 12.2, 13.3, 13.4, 14.101, 14.2, 15, 15.101, 16.2, 16.3, 17, 19</p> <p>The following test is carried out at DEKRA clause 18</p>	<p><b>Testing location:</b></p> <p><b>WAGO GmbH &amp; Co. KG</b> <b>Hansastraße 27, 32423 Minden/Westfalen, Germany</b></p> <p><b>WAGO GmbH &amp; Co. KG</b> <b>Hansastraße 27, 32423 Minden/Westfalen, Germany</b></p> <p><b>WAGO GmbH &amp; Co. KG</b> <b>Hansastraße 27, 32423 Minden/Westfalen, Germany</b></p> <p><b>WAGO GmbH &amp; Co. KG</b> <b>Hansastraße 27, 32423 Minden/Westfalen, Germany</b></p> <p><b>DEKRA Certification B.V.</b> <b>Meander 1051, 6825 MJ Arnhem</b> <b>The Netherlands</b></p>

<p><b>Fifth Edition, 2270581.50:</b>  This report replaces report 225563.50 issued on 2021-02-24,  due to the fact that new recycled certified plastic (green) is added.  The following tests are carried out under CTF3:  clause 9, 12.1, 12.2, 13.3, 13.4, 14.2, 16.1, 16.2, 18, 19</p> <p>Except for the results of above mentioned tests, all other test results in this test report are taken over from previous test report 2245563.50.</p>	<p><b>WAGO GmbH &amp; Co. KG</b>  <b>Hansastraße 27, 32423 Minden/Westfalen,</b>  <b>Germany</b></p>
<p><b>Summary of compliance with National Differences</b>  <b>List of countries addressed:</b></p> <p>European Group Differences  Special National Conditions United Kingdom</p> <p><input checked="" type="checkbox"/> <b>The product fulfils the requirements of EN 60998-2-2: 2004 in conjunction with EN 60998-1:2004.</b></p>	
<p><b>Statement concerning the uncertainty of the measurement systems used for the tests</b>  (may be required by the product standard or client)</p> <p><input type="checkbox"/> <b>Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:</b>  <b>Procedure number, issue date and title:</b></p> <p>Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.</p> <p><input type="checkbox"/> <b>Statement not required by the standard used for type testing</b>  (Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be delete in both cases after selecting the applicable option)</p>	

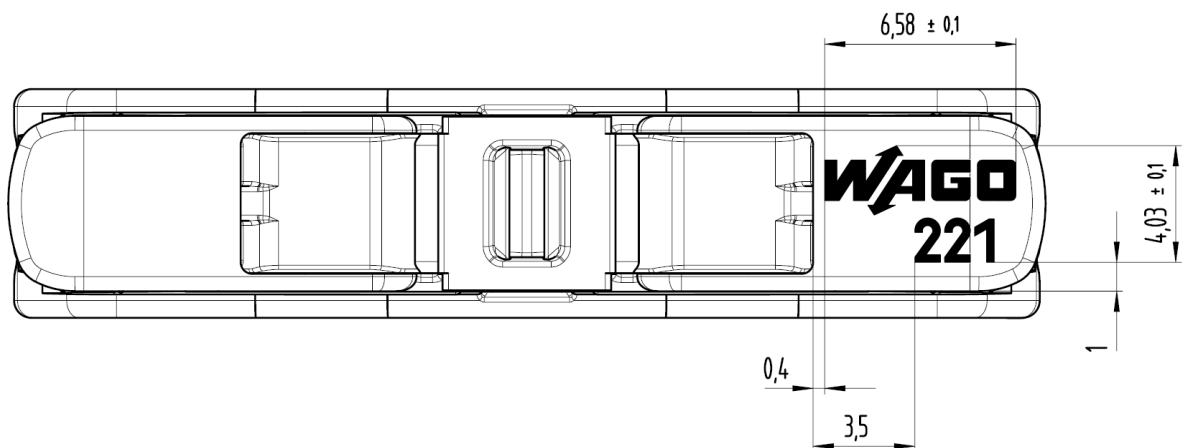
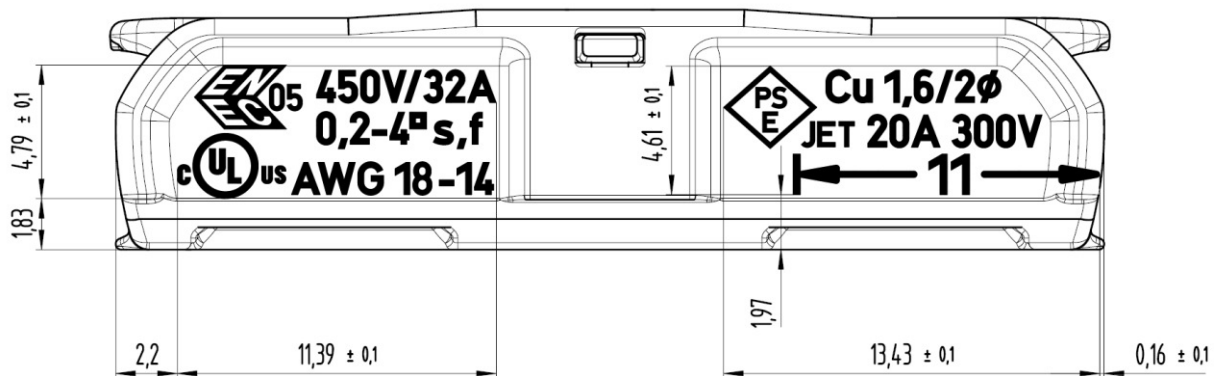
Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.

Example for all types, except 221-2401 and 221-2411



Example for type 221-2411



<b>Test item particulars:</b>	
Number of terminals.....:	<input checked="" type="checkbox"/> single <input type="checkbox"/> multiway
Protection against electric shock.....:	<input checked="" type="checkbox"/> with <input type="checkbox"/> without
Means of fixing.....:	<input type="checkbox"/> with <input checked="" type="checkbox"/> without
Rated temperature.....:	<input type="checkbox"/> without T marking <input checked="" type="checkbox"/> with T marking (85°C)
IP number.....:	IP-
Type of terminals, screwless-type.....:	<input checked="" type="checkbox"/> universal <input type="checkbox"/> non-universal <input type="checkbox"/> push wire
Conductor type.....:	<input checked="" type="checkbox"/> rigid <input checked="" type="checkbox"/> flexible
Rated connecting capacity.....:	<input checked="" type="checkbox"/> 0,14mm <sup>2</sup> "F" <input checked="" type="checkbox"/> 0,2mm <sup>2</sup> <input checked="" type="checkbox"/> 4mm <sup>2</sup> <input type="checkbox"/> 1,5mm <sup>2</sup> <input type="checkbox"/> 2,5mm <sup>2</sup> <input type="checkbox"/> 4mm <sup>2</sup> <input type="checkbox"/> 6mm <sup>2</sup> <input type="checkbox"/> 10mm <sup>2</sup>
Conductor insulation.....:	<input type="checkbox"/> 16mm <sup>2</sup> <input type="checkbox"/> 25mm <sup>2</sup> <input type="checkbox"/> 35 mm <sup>2</sup>
Rated voltage (V ac / V dc).....:	<input checked="" type="checkbox"/> AC <input checked="" type="checkbox"/> DC
<b>Classification of installation and use .....</b>	
<b>Supply Connection.....:</b>	
.....:	
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object ..... : <b>N/A</b>	
- test object does meet the requirement ..... : <b>P (Pass)</b>	
- test object does not meet the requirement ..... : <b>F (Fail)</b>	
<b>Testing .....</b>	
<b>Date of receipt of test item .....</b> : <b>10-2022</b>	
<b>Date (s) of performance of tests.....</b> : <b>02-2023</b>	
<b>General remarks:</b>	
"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.	
<b>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</b>	
N.B.: Projects performed under the IECEE CB-Scheme CTF procedure, are fully in line with the procedures and requirements of the IECEE CB-Scheme, but do not fall under DEKRA Netherland's laboratory accreditation, according to ISO/IEC 17025, by the Dutch Accreditation Council.	

<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60068-2-2:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....	<input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	
<b>Name and address of factory (ies) .....</b>	<b>Factory locations:</b>  Wago Elwag sp.z.o.o. ul. Piekna 58 a 50-506, Wroclaw, Poland  Wago Elwag Innowacyjna 2 55-330 Wroblowice, Poland  WAGO Private Limited Block No. 94, National Highway-8 Village Vadsala – Varnama, Vadodara, Gujarat-391243 India  Wago Electronic (Tianjin) Co. Ltd. No. 5 Quanhui Road Wu Qing Development Area 301700 Tianjin, China  WAGO GmbH & Co. KG Hansastraße 27, 32423 Minden/Westfalen Germany  WAGO GmbH & Co. KG, Werk Sondershausen Waldstrasse 1, 99706, Sondershausen Germany  WAGO Contact S.A. Route de l'Industrie 19, CP 168, 1564, Domdidier, Switzerland  WAGO GmbH & Co. KG Cammer Str. 17, 32423 Minden Germany
<b>General product information:</b>	
N/A	

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>8</b>	<b>MARKING</b>		
8.1	On main part: <b>All types, except 221-2401 and 221-2411</b>		
	a) rated connecting capacity (mm <sup>2</sup> ) .....	<b>0,14 mm<sup>2</sup> "f"</b> <b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup></b>	<b>P</b>
	b) rated insulation voltage (V) .....	<b>450 V</b>	<b>P</b>
	c) T marking (°C) (if > 40 °C or < -5 °C) .....	<b>85 °C</b> <b>catalogue</b>	<b>P</b>
	d) type reference .....	<b>221-415 example</b>	<b>P</b>
	e) manufacturer's or responsible vendor's name, trademark or identification mark.....	<b>WAGO</b>	<b>P</b>
	f) IP if > IP20 .....		<b>N</b>
	Small devices: only d) and e) indicated on device		<b>N</b>
	All marks visible on smallest package unit		<b>P</b>
8.1	On main part: <b>Types 221-2401 and 221-2411</b>		
	a) rated connecting capacity (mm <sup>2</sup> ) .....	<b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup></b>	<b>P</b>
	b) rated insulation voltage (V) .....	<b>450 V</b>	<b>P</b>
	c) T marking (°C) (if > 40 °C or < -5 °C) .....	<b>85 °C</b> <b>catalogue</b>	<b>P</b>
	d) type reference .....	<b>221</b>	<b>P</b>
	e) manufacturer's or responsible vendor's name, trademark or identification mark.....	<b>WAGO</b>	<b>P</b>
	f) IP if > IP20 .....		<b>N</b>
	Small devices: only d) and e) indicated on device		<b>N</b>
	All marks visible on smallest package unit		<b>P</b>
8.101	Type of acceptable conductor "s" "r" or "f"		<b>P</b>
8.102	Marking indicating the length of insulation to be removed before insertion of the conductor		<b>P</b>
8.2	Multiway terminal devices: at least two adjacent		<b>N</b>
8.3	When symbols are used they shall be as follow: V for volts mm <sup>2</sup> or □ for square millimetres T for T-rating		<b>P</b>
8.4	Marking: durable and easily legible; 15 s water; 15 s hexane		<b>P</b>

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>9</b>	<b>PROTECTION AGAINST ELECTRIC SHOCK</b>		
	Live parts not accessible		<b>P</b>
<b>10</b>	<b>CONNECTION OF CONDUCTORS</b>		
10.1	Connecting devices allow correct connection of conductors		<b>P</b>
10.101	Connection or disconnection: use a general tool or simple insertion	lever operated	<b>P</b>
	Disconnection operation other than a pull	lever operated	<b>P</b>
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		<b>P</b>
	Universal terminals shall accept rigid(solid or stranded) and flexible unprepared conductors		<b>P</b>
	Non-universal terminals shall accept the types of conductors declared by the manufacturer		<b>P</b>
	Rated connecting capacity (mm <sup>2</sup> ) .....	<b>all types, except 221-2401 and 221-2411</b> <b>0,14 mm<sup>2</sup> "f"</b> <b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup></b>  <b>type 221-2401</b> <b>0,34 mm<sup>2</sup> - 4 mm<sup>2</sup></b>  <b>type 221-2411</b> <b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup></b>	<b>P</b>
	Suitable for connecting cross-sectional areas (mm <sup>2</sup> ) .....	<b>all types, except 221-2401 and 221-2411</b> <b>0,14 mm<sup>2</sup> "f"</b> <b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup> "f" "sol"</b> <b>1,5 mm<sup>2</sup> - 4 mm<sup>2</sup> "str"</b>  <b>type 221-2401</b> <b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup> "sol"</b> <b>0,34 mm<sup>2</sup> - 4 mm<sup>2</sup> "f"</b> <b>0,2 mm<sup>2</sup> - 2,5 mm<sup>2</sup> "str"</b>  <b>type 221-2411</b> <b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup> "f" "sol"</b> <b>0,2 mm<sup>2</sup> - 2,5 mm<sup>2</sup> "str"</b>	<b>P</b>
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		<b>P</b>

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Smallest diameter (mm); largest diameter (mm)..... :	<b>0,42 mm, 2,7 mm</b>	<b>P</b>
	During the test: terminals show no damage		<b>P</b>
10.104	Terminals clamp the conductor without undue damage: <b>All types, except 221-2401 and 221-2411</b>		
10.104.1	Connection/disconnection 5 times: smallest diameter (mm)..... :	<b>0,14 mm<sup>2</sup> "f"</b>	<b>P</b>
	Connection/disconnection 5 times: largest diameter (mm)..... :	<b>4 mm<sup>2</sup></b>	<b>P</b>
	After the test, terminal not damaged		<b>P</b>
10.104	Terminals clamp the conductor without undue damage: <b>Types 221-2411</b>		
10.104.1	Connection/disconnection 5 times: smallest diameter (mm)..... :	<b>0,2 mm<sup>2</sup> solid and flexible</b>	<b>P</b>
	Connection/disconnection 5 times: largest diameter (mm)..... :	<b>4 mm<sup>2</sup> solid, stranded and flexible</b>	<b>P</b>
	After the test, terminal not damaged		<b>P</b>
10.104.2	Rated cross-sectional area (mm <sup>2</sup> ) ..... :	<b>4 mm<sup>2</sup></b>	<b>P</b>
	Type ..... :	<b>rigid and flexible</b>	<b>P</b>
	After the test, no wire of conductor escaped outside the terminal		<b>P</b>
10.105	Secureness test:		
	during the test: the conductor does not slip out, no break near clamping unit and no damage	See appended table 10.105	<b>P</b>
10.106	Pull test:		
	- during the test the conductor does not come out	See appended table 10.106	<b>P</b>

<b>11</b>	<b>CONSTRUCTION</b>		
11.101	Contact pressure not transmitted via insulating material, unless there is sufficient resiliency		<b>P</b>
11.102	Insertion and disconnection, in accordance with manufacturer's instructions		<b>P</b>
	Openings clearly distinguishable		<b>P</b>
11.103	Terminals so constructed that:		
	- each conductor is clamped individually		<b>P</b>
	- conductors can be connected or disconnected at same time or separately	<b>separately</b>	<b>P</b>
	Possible to clamp maximum number of conductors	<b>1</b>	<b>P</b>

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
11.104	Inadequate insertion of conductor avoided		<b>P</b>
11.2	Clamping units clamp conductors reliably and between metal surfaces		<b>P</b>
11.3	Connecting devices: insulation of conductors not in contact with live parts of different polarity		<b>P</b>
11.4	Insulating lining: adequate mechanical strength and secured in a reliable manner		<b>P</b>
11.5	Current-carrying parts: adequate mechanical strength, electrical conductivity and resistance to corrosion; type of metal .....	<b>tin plated copper</b>	<b>P</b>
	Current-carrying parts not made with electroplated coating if subjected to mechanical wear		<b>N</b>
11.6	Terminals: possible to connect number of conductors as specified by the manufacturer:		
	- number of conductors .....	<b>1</b>	<b>P</b>
	- rigid, cross-sectional area (mm <sup>2</sup> ) .....	<b>0,2 mm<sup>2</sup> - 4 mm<sup>2</sup></b>	<b>P</b>
	- flexible, cross-sectional area (mm <sup>2</sup> ).....	<b>all types, except 221-2401 and 221-2411 0,14 mm<sup>2</sup> - 4 mm<sup>2</sup> all types, except 221-2401 and 221-2411 0,2 mm<sup>2</sup> - 4 mm<sup>2</sup></b>	<b>P</b>
11.7	Fixing means of bases do not serve any other purpose		<b>P</b>
<b>12</b>	<b>RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER</b> <b>Type 221-413, 221-482, 221-483, 221-485, 221-2411, 221-422</b>		
12.1	Connecting devices resistant to ageing; after the test (168 h): no cracks visible, not sticky or greasy, no damage; test temperature (°C) .....	<input type="checkbox"/> 85 °C <input checked="" type="checkbox"/> <b>T + 30 °C=115 °C</b>	<b>P</b>
12.2	After humidity test (91-95%): no damage; test duration (168 h for connecting devices > IPx2, 48 h for all other).....	<b>48 h</b>	<b>P</b>
12.3	IP test (IEC 60529).....	IP__	<b>N</b>
	After the test, electric strength test as 13.4, and by inspection	IP__	<b>N</b>
	no appreciable entry of water		<b>N</b>
<b>13</b>	<b>INSULATION RESISTANCE AND ELECTRIC STRENGTH</b> <b>Type 221-415, 221-485, 221-2411, 221-425</b>		

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
13.1	Insulated connecting devices provided with adequate insulation resistance and electric strength		<b>P</b>
13.2	Insulation between the connected conductors and the external surface is adequate for all the combinations of conductors		<b>P</b>
13.3	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 13.3	<b>P</b>
13.4	Electric strength test	See appended table 13.4	<b>P</b>
<b>14</b>	<b>MECHANICAL STRENGTH</b> <b>Type 221-415, 221-485, 221-2411, (221-425 Tumbling barrel only)</b>		
14.101	the test conductor, properly inserted into a clamping unit of the connection devices shall be allowed to be bent (deflected) in all 12 directions each of them differing from the adjacent directions by $30^\circ \pm 5^\circ$		
	Deflection test (principle of test apparatus shown in figure 103a):		
	- requirement: $\leq 2,5$ mV	See appended table 14.101	<b>P</b>
	max measured voltage drop (mV)	<b>0,99 mV</b>	<b>P</b>
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage	<b>4,15 g</b>	<b>P</b>
14.3	Impact test (for > 50 g): 10 blows:		
	- height of fall: 7,5 cm		<b>N</b>
	- height of fall: 10 cm		<b>N</b>
	- height of fall: 20 cm		<b>N</b>
	- height of fall: 25 cm		<b>N</b>
	After the test, no damage and live parts shall not become accessible		<b>N</b>
<b>15</b>	<b>TEMPERATURE RISE</b>		
	requirement: $\leq 45$ K		<b>P</b>
	max measured temperature rise (K)	See appended table 15	<b>P</b>
15.101	192 temperature cycles test, each cycle with a duration of 1 h, with the test current as defined in Table 2 of Part I		<b>P</b>
	Cabinet temperature (°C)..... : <input type="checkbox"/> 40 <input checked="" type="checkbox"/> T-marking: <b>85 °C</b>		<b>P</b>
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24 <sup>th</sup> cycle value	See appended table 15.101	<b>P</b>
<b>16</b>	<b>RESISTANCE TO HEAT</b>		
16.1	Connecting devices are sufficiently resistant to heat		<b>P</b>

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
16.2	Heating cabinet test	See appended table 16.2	<b>P</b>
	After the test: no changes impairing further use and markings still legible		<b>P</b>
16.3	Ball-pressure test (IEC 60695-10-2) for parts necessary to retain current-carrying parts and parts of the earthing circuit in position	See appended table 16.3A	<b>P</b>
	Impression diameter not exceed 2 mm		<b>P</b>
	Ball-pressure test (IEC 60695-10-2) for parts not necessary to retain current-carrying parts and parts of the earthing circuit in position	See appended table 16.3B	<b>N</b>
	Impression diameter not exceed 2 mm		<b>N</b>
<b>17</b>	<b>CLEARANCES AND CREEPAGE DISTANCES</b>		<b>P</b>
	Creepage distances, clearances and distances through sealing compound	See appended table 17	<b>P</b>
<b>18</b>	<b>RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE</b>		
	Glow-wire test (clauses 4 to 10 of IEC 60695-2-10)	See appended table 18	<b>P</b>
	No visible flames and no sustained glowing or flame and glowing extinguished within 30 s		<b>P</b>
	No ignition of the tissue paper or scorching of the board		<b>P</b>
<b>19</b>	<b>RESISTANCE OF INSULATING MATERIAL TO TRACKING</b>		
	Tracking test (IEC 60112): PTI 175 V, 50 drops, solution A	See appended table 19	<b>P</b>

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

<b>10.105</b>						
<b>TABLE: Clamping securement and damage to the conductor test</b>						
Model/type reference.....:				221-415		
No of sample	Conductor cross-sectional area (mm <sup>2</sup> )	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1-3	0,14	Flexible	0,1	260	6,4	P
4-6	0,2	Solid / flexible	0,1	260	6,4	P
7-9	4	Solid/ flexible	0,9	280	9,5	P
10-12	4	stranded	0,9	280	9,5	P
Supplementary information:						
<b>10.106</b>						
<b>TABLE: Pull-out test</b>						
Model/type reference.....:				221-415		
No of sample	Conductor cross-sectional area (mm <sup>2</sup> )	Conductor type	Pull force (N)			
1-3	0,14	flexible	10			P
4-6	0,2	solid / flexible	10			P
7-9	4	solid / flexible	60			P
10-12	4	stranded	60			P
Supplementary information:						

IEC 60998-2-2						
Clause	Requirement + Test			Result - Remark		Verdict
<b>10.105</b>	<b>TABLE: Clamping securement and damage to the conductor test</b>					
	Model/type reference.....:			<b>221-2411</b>		
No of sample	Conductor cross-sectional area (mm <sup>2</sup> )	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1-3	0,2	solid / flexible	0,2	260	6,4	P
4-6	4	solid / flexible	0,9	280	9,5	P
7-9	1,5	stranded	0,4	260	6,5	P
10-12	2,5	stranded	0,7	280	9,5	P
13-15	0,2	stranded	0,2	260	6,4	P
Supplementary information:						
<b>10.106</b>	<b>TABLE: Pull-out test</b>					
	Model/type reference.....:			<b>221-2411</b>		
No of sample	Conductor cross-sectional area (mm <sup>2</sup> )	Conductor type		Pull force (N)		
1-3	0,2	solid / flexible		10		P
4-6	4	solid / flexible		60		P
7-9	1,5	stranded		40		P
10-12	2,5	stranded		50		P
13-15	0,2	stranded		10		P
Supplementary information:						

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

<b>10.105</b>						
<b>TABLE: Clamping securement and damage to the conductor test</b>						
Model/type reference.....:				221-2401		
No of sample	Conductor cross-sectional area (mm <sup>2</sup> )	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1-3	0,2	solid	0,2	260	6,4	P
4-6	0,34	flexible	0,2	260	6,4	P
7-9	4	solid / flexible	0,9	280	9,5	P
13-15	2,5	stranded	0,7	280	9,5	P
16-18	0,2	stranded	0,2	260	6,4	P
Supplementary information:						
<b>10.106</b>						
<b>TABLE: Pull-out test</b>						
Model/type reference.....:				221-2401		
No of sample	Conductor cross-sectional area (mm <sup>2</sup> )	Conductor type		Pull force (N)		
1-3	0,2	solid		10		P
4-6	0,34	flexible		15		P
7-9	4	solid / flexible		60		P
13-15	2,5	stranded		50		P
16-18	0,2	stranded		10		P
Supplementary information:						

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

13.3	TABLE: Insulation resistance		
	Model/type reference.....:	221-415	
	Smallest cross-sectional area (mm <sup>2</sup> ) :	0,14 mm <sup>2</sup> "f" / 0,2 mm <sup>2</sup> "r"	
	Largest cross-sectional area (mm <sup>2</sup> ) :	4 mm <sup>2</sup> "r"	
	<b>Test voltage applied between</b>	<b>Measured (MΩ)</b>	<b>Required (MΩ)</b>
	All clamping units together and the body	>20 MΩ	5 MΩ
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

13.3	TABLE: Insulation resistance		
	Model/type reference.....:	221-485	
	Smallest cross-sectional area (mm <sup>2</sup> ) :	0,14 mm <sup>2</sup> "f" / 0,2 mm <sup>2</sup> "r" / 0,2 mm <sup>2</sup> "f"	
	Largest cross-sectional area (mm <sup>2</sup> ) :	4 mm <sup>2</sup> "r" / 4 mm <sup>2</sup> "f"	
	<b>Test voltage applied between</b>	<b>Measured (MΩ)</b>	<b>Required (MΩ)</b>
	All clamping units together and the body	>20 MΩ	5 MΩ
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

13.3	TABLE: Insulation resistance		
	Model/type reference.....:	221-2411	
	Smallest cross-sectional area (mm <sup>2</sup> ) :	0,2 mm <sup>2</sup> solid and flexible	
	Largest cross-sectional area (mm <sup>2</sup> ) :	4 mm <sup>2</sup> solid, stranded and flexible	
	<b>Test voltage applied between</b>	<b>Measured (MΩ)</b>	<b>Required (MΩ)</b>
	All clamping units together and the body	>5 MΩ	5 MΩ
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>13.3</b>	<b>TABLE: Insulation resistance</b>		
	Model/type reference.....:	221-425	
	Smallest cross-sectional area (mm <sup>2</sup> ) :	0,14 mm <sup>2</sup> "f" / 0,2 mm <sup>2</sup> "r" / 0,2 mm <sup>2</sup> "f"	
	Largest cross-sectional area (mm <sup>2</sup> ) :	4 mm <sup>2</sup> "r" / 4 mm <sup>2</sup> "f"	
	<b>Test voltage applied between</b>	<b>Measured (MΩ)</b>	<b>Required (MΩ)</b>
	All clamping units together and the body	>5 MΩ	5 MΩ
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

<b>13.4</b>	<b>TABLE: Electric strength test</b>		
	Model/type reference.....:	221-415	
	Rated insulation voltage (V).....:	450 V	
	<b>Test voltage applied between</b>	<b>Test voltage (V)</b>	<b>Flashover / breakdown (Yes/No)</b>
	All clamping units together and the body	2500 V	No
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

<b>13.4</b>	<b>TABLE: Electric strength test</b>		
	Model/type reference.....:	221-485	
	Rated insulation voltage (V).....:	450 V	
	<b>Test voltage applied between</b>	<b>Test voltage (V)</b>	<b>Flashover / breakdown (Yes/No)</b>
	All clamping units together and the body	2500 V	No
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>13.4</b>	<b>TABLE: Electric strength test</b>		
	<b>Model/type reference.....:</b>	<b>221-2411</b>	
	<b>Rated insulation voltage (V).....:</b>	<b>450 V</b>	
	<b>Test voltage applied between</b>	<b>Test voltage (V)</b>	<b>Flashover / breakdown (Yes/No)</b>
	All clamping units together and the body	<b>2500 V</b>	<b>No</b>
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

<b>13.4</b>	<b>TABLE: Electric strength test</b>		
	<b>Model/type reference.....:</b>	<b>221-425</b>	
	<b>Rated insulation voltage (V).....:</b>	<b>450 V</b>	
	<b>Test voltage applied between</b>	<b>Test voltage (V)</b>	<b>Flashover / breakdown (Yes/No)</b>
	All clamping units together and the body	<b>2500 V</b>	<b>No</b>
	Each clamping unit and all others together		
<b>Supplementary information:</b>			

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-413</b>				
	0,1 times the test current (A)..... :	<b>0,2 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>0,14 mm<sup>2</sup></b>			<b>P</b>
	force (N) (table 104) .....	<b>0,09 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,39	0,38	0,39	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,39	0,38	0,38	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,39	0,38	0,38	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,38	0,39	0,38	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,38	0,39	0,38	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,39	0,39	0,38	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,38	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,39	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,39	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,38	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,38	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,39	0,39	0,39	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-413</b>				
	0,1 times the test current (A)..... :	<b>0,4 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>0,2 mm<sup>2</sup></b>			<b>P</b>
	force (N) (table 104) .....	<b>0,09 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,42	0,43	0,43	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,45	0,44	0,44	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,46	0,45	0,45	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,45	0,45	0,45	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,46	0,44	0,45	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,46	0,45	0,45	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,45	0,45	0,44	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,46	0,46	0,45	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,45	0,45	0,45	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,46	0,46	0,45	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,45	0,45	0,45	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,46	0,45	0,45	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-413</b>				
	0,1 times the test current (A)..... :	<b>3,2 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>4 mm<sup>2</sup></b>			<b>P</b>
	force (N) (table 104) .....	<b>2 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,62	0,57	0,60	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,61	0,60	0,60	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,57	0,54	0,54	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,54	0,54	0,55	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,61	0,58	0,56	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,60	0,57	0,55	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,60	0,58	0,59	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,61	0,60	0,59	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,61	0,60	0,60	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,59	0,58	0,58	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,59	0,58	0,59	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,58	0,58	0,58	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-485</b>				
	0,1 times the test current (A)..... :	<b>0,2 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>0,14 mm<sup>2</sup> flexible</b>			<b>P</b>
	force (N) (table 104) .....	<b>0,09 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,38	0,38	0,39	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,38	0,38	0,38	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,38	0,38	0,38	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,37	0,39	0,38	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,37	0,39	0,37	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,37	0,39	0,37	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,37	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,37	0,39	0,37	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,39	0,39	0,37	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,37	0,39	0,39	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,38	0,39	0,37	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,37	0,39	0,39	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-485</b>				
	0,1 times the test current (A)..... :	<b>0,4 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>0,2 mm<sup>2</sup> solid</b>			<b>P</b>
	force (N) (table 104) .....	<b>0,09 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,41	0,43	0,43	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,44	0,44	0,45	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,45	0,44	0,45	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,45	0,45	0,41	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,46	0,44	0,41	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,45	0,46	0,42	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,45	0,45	0,42	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,46	0,46	0,43	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,45	0,45	0,41	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,44	0,46	0,45	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,45	0,47	0,43	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,44	0,45	0,45	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-485</b>				
	0,1 times the test current (A)..... :	<b>3,2 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>4 mm<sup>2</sup> solid</b>			<b>P</b>
	force (N) (table 104) .....	<b>2 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,62	0,57	0,60	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,61	0,60	0,60	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,59	0,54	0,54	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,56	0,54	0,55	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,62	0,58	0,56	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,61	0,57	0,55	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,63	0,58	0,59	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,61	0,60	0,59	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,61	0,60	0,60	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,55	0,58	0,58	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,56	0,58	0,59	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,57	0,58	0,58	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-485</b>				
	0,1 times the test current (A)..... :	<b>3,2 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>4 mm<sup>2</sup> stranded</b>			<b>P</b>
	force (N) (table 104) .....	<b>2 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,68	0,66	0,65	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,68	0,72	0,71	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,69	0,65	0,65	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,64	0,74	0,73	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,66	0,73	0,73	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,68	0,64	0,67	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,69	0,66	0,69	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,64	0,62	0,68	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,71	0,75	0,73	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,72	0,74	0,71	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,72	0,73	0,72	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,73	0,75	0,74	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-42411</b>				
	0,1 times the test current (A)..... :	<b>0,4 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>0,2 mm<sup>2</sup> solid</b>			<b>P</b>
	force (N) (table 104) .....	<b>0,09 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,56	0,55	0,55	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,56	0,55	0,55	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,56	0,56	0,56	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,55	0,56	0,55	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,56	0,56	0,56	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,58	0,58	0,56	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,57	0,56	0,56	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,57	0,56	0,56	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,58	0,57	0,56	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,57	0,56	0,56	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,57	0,56	0,56	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,56	0,56	0,56	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>14.101</b>	<b>TABLE: Mechanical strength Type 221-42411</b>				
	0,1 times the test current (A)..... :	<b>3,2 A</b>			<b>P</b>
	smallest cross-sectional area (mm <sup>2</sup> ) 10.103 .....	<b>4 mm<sup>2</sup> solid</b>			<b>P</b>
	force (N) (table 104) .....	<b>2 N</b>			<b>P</b>
	Distance (mm) (table 104) .....	<b>100 mm</b>			<b>P</b>
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1 <sup>st</sup> deflection) .....	0,99	0,84	0,89	<b>P</b>
	- voltage drop measured (mV) (2 <sup>nd</sup> deflection) .....	0,96	0,91	0,93	<b>P</b>
	- voltage drop measured (mV) (3 <sup>rd</sup> deflection) .....	0,78	0,94	0,74	<b>P</b>
	- voltage drop measured (mV) (4 <sup>th</sup> deflection) .....	0,65	0,71	0,63	<b>P</b>
	- voltage drop measured (mV) (5 <sup>th</sup> deflection) .....	0,50	0,51	0,52	<b>P</b>
	- voltage drop measured (mV) (6 <sup>th</sup> deflection) .....	0,47	0,53	0,58	<b>P</b>
	- voltage drop measured (mV) (7 <sup>th</sup> deflection) .....	0,51	0,51	0,51	<b>P</b>
	- voltage drop measured (mV) (8 <sup>th</sup> deflection) .....	0,47	0,44	0,48	<b>P</b>
	- voltage drop measured (mV) (9 <sup>th</sup> deflection) .....	0,48	0,51	0,63	<b>P</b>
	- voltage drop measured (mV) (10 <sup>th</sup> deflection) .....	0,55	0,55	0,60	<b>P</b>
	- voltage drop measured (mV) (11 <sup>th</sup> deflection) .....	0,51	0,58	0,67	<b>P</b>
	- voltage drop measured (mV) (12 <sup>th</sup> deflection) .....	0,81	0,82	0,92	<b>P</b>
	- requirement: ≤ 2,5 mV				<b>P</b>

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

<b>15</b>	<b>TABLE: Temperature rise</b>		
	Model/type reference.....	<b>221-415</b>	
	Terminal.....	<input checked="" type="checkbox"/> <b>single</b> <input type="checkbox"/> <b>multiway</b>	—
	T marking (°C).....	<input checked="" type="checkbox"/> <b>Yes (85°C):</b>	—
	Largest cross-sectional area (mm <sup>2</sup> ) .....	<b>4 mm<sup>2</sup></b>	
	Conductors .....	<b>rigid and flexible</b>	
	Rated connecting capacity (mm <sup>2</sup> ).....	<b>4 mm<sup>2</sup></b>	
	Test current (A) .....	<b>32 A</b>	
<b>Thermocouple Locations</b>		<b>max. temperature measured, (K)</b>	<b>max. temperature limit, (K)</b>
On conductor in the terminal T1		<b>21</b>	<b>45</b>
On conductor in the terminal T2		<b>22</b>	<b>45</b>
On conductor in the terminal T3		<b>21</b>	<b>45</b>
On conductor in the terminal T4		<b>22</b>	<b>45</b>
On conductor in the terminal T5		<b>22</b>	<b>45</b>
	Model/type reference.....	<b>221-415</b>	
	Terminal.....	<input checked="" type="checkbox"/> <b>single</b> <input type="checkbox"/> <b>multiway</b>	—
	T marking (°C).....	<input checked="" type="checkbox"/> <b>Yes (85°C):</b>	—
	Used cross-sectional area (mm <sup>2</sup> ) .....	<b>4 mm<sup>2</sup></b>	
	Conductors .....	<b>rigid</b>	
	Test current (A) .....	<b>32 A</b>	
<b>Thermocouple Locations</b>		<b>max. temperature measured, (K)</b>	<b>max. temperature limit, (K)</b>
On conductor in the terminal T1		<b>24</b>	<b>45</b>
On conductor in the terminal T2		<b>23</b>	<b>45</b>
On conductor in the terminal T3		<b>22</b>	<b>45</b>
On conductor in the terminal T4		<b>23</b>	<b>45</b>
On conductor in the terminal T5		<b>24</b>	<b>45</b>
Supplementary information:			

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>15</b>	<b>TABLE: Temperature rise</b>		
	Model/type reference.....	<b>221-2411</b>	
	Terminal.....	<input checked="" type="checkbox"/> <b>single</b> <input type="checkbox"/> <b>multiway</b>	—
	T marking (°C).....	<input checked="" type="checkbox"/> <b>Yes (85°C):</b>	—
	Largest cross-sectional area (mm <sup>2</sup> ) .....	<b>4 mm<sup>2</sup></b>	
	Conductors .....	<b>solid, stranded and flexible</b>	
	Rated connecting capacity (mm <sup>2</sup> ).....	<b>4 mm<sup>2</sup></b>	
	Test current (A) .....	<b>32 A</b>	
	<b>Thermocouple Locations</b>	<b>max. temperature measured, (K)</b>	<b>max. temperature limit, (K)</b>
	On conductor in the terminal and wire (sample with solid wire)	<b>27</b> <b>26</b> <b>26</b>	<b>45</b>
	On conductor in the terminal and wire (sample with flexible wire)	<b>24</b> <b>28</b> <b>25</b>	<b>45</b>
	On conductor in the terminal and wire (sample with stranded wire)	<b>19</b> <b>20</b> <b>19</b>	<b>45</b>
Supplementary information:			

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>15.101</b>	<b>TABLE: Temperature-cycling test</b>				
	Model/type reference .....	<b>221-415</b>			
	Smallest cross-sectional area (mm <sup>2</sup> ) .....	<b>0,14 mm<sup>2</sup> flexible</b>			
	Test current (Table 2) (A) .....	<b>2 A</b>			
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)				
Stranded conductors	(after 24 cycles)				
Flexible conductors	(after 24 cycles)	<b>1,31</b>	<b>1,40</b>	<b>1,36</b>	<b>P</b>
Solid conductors	(1,5 times 24 <sup>th</sup> cycle value)				
Stranded conductors	(1,5 times 24 <sup>th</sup> cycle value)				
Flexible conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>1,96</b>	<b>2,10</b>	<b>2,04</b>	<b>P</b>
Solid conductors	(after 192 cycles)				
Stranded conductors	(after 192 cycles)				
Flexible conductors	(after 192 cycles)	<b>0,89</b>	<b>1,01</b>	<b>0,99</b>	<b>P</b>
	Largest cross-sectional area (mm <sup>2</sup> ) .....	<b>4 mm<sup>2</sup> rigid flexible</b>			
	Test current (Table 2) (A) .....	<b>32 A</b>			
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)	<b>2,31</b>	<b>2,10</b>	<b>2,00</b>	<b>P</b>
Stranded conductors	(after 24 cycles)	<b>2,12</b>	<b>2,23</b>	<b>2,10</b>	<b>P</b>
Flexible conductors	(after 24 cycles)	<b>2,00</b>	<b>2,50</b>	<b>2,64</b>	<b>P</b>
Solid conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>3,46</b>	<b>3,15</b>	<b>3,00</b>	<b>P</b>
Stranded conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>3,18</b>	<b>3,34</b>	<b>3,15</b>	<b>P</b>
Flexible conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>3,00</b>	<b>3,75</b>	<b>3,96</b>	<b>P</b>
Solid conductors	(after 192 cycles)	<b>1,85</b>	<b>1,83</b>	<b>1,87</b>	<b>P</b>
Stranded conductors	(after 192 cycles)	<b>1,79</b>	<b>1,81</b>	<b>1,80</b>	<b>P</b>
Flexible conductors	(after 192 cycles)	<b>2,00</b>	<b>2,50</b>	<b>2,64</b>	<b>P</b>
Supplementary information:					

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

15.101	TABLE: Temperature-cycling test				
	Model/type reference .....	221-415			
	Smallest cross-sectional area (mm <sup>2</sup> ) .....	0,2 mm <sup>2</sup> rigid flexible			
	Test current (Table 2) (A) .....	4 A			
	Measured voltage drop of:	Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
	Solid conductors (after 24 cycles)	1,72	1,54	1,71	P
	Stranded conductors (after 24 cycles)				
	Flexible conductors (after 24 cycles)	1,79	1,79	2,10	P
	Solid conductors (1,5 times 24 <sup>th</sup> cycle value)	2,58	2,31	2,56	P
	Stranded conductors (1,5 times 24 <sup>th</sup> cycle value)				
	Flexible conductors (1,5 times 24 <sup>th</sup> cycle value)	2,68	2,68	3,15	P
	Solid conductors (after 192 cycles)	1,48	1,27	1,26	P
	Stranded conductors (after 192 cycles)				
	Flexible conductors (after 192 cycles)	1,28	1,14	1,89	P

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
<b>15.101</b>	<b>TABLE: Temperature-cycling test</b>				
	Model/type reference .....	<b>221-2411</b>			
	Smallest cross-sectional area (mm <sup>2</sup> ) .....	<b>0,2 mm<sup>2</sup> solid and flexible</b>			
	Test current (Table 2) (A) .....	<b>4 A</b>			
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)	<b>10,18</b>	<b>11,90</b>	<b>12,14</b>	
Stranded conductors	(after 24 cycles)				
Flexible conductors	(after 24 cycles)	<b>11,10</b>	<b>15,04</b>	<b>13,51</b>	<b>P</b>
Solid conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>15,27</b>	<b>17,85</b>	<b>18,21</b>	
Stranded conductors	(1,5 times 24 <sup>th</sup> cycle value)				
Flexible conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>16,65</b>	<b>22,56</b>	<b>20,27</b>	<b>P</b>
Solid conductors	(after 192 cycles)	<b>10,03</b>	<b>11,46</b>	<b>11,80</b>	
Stranded conductors	(after 192 cycles)				
Flexible conductors	(after 192 cycles)	<b>11,35</b>	<b>15,24</b>	<b>13,47</b>	<b>P</b>
	Largest cross-sectional area (mm <sup>2</sup> ) .....	<b>4 mm<sup>2</sup> solid, stranded and flexible</b>			
	Test current (Table 2) (A) .....	<b>32 A</b>			
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)	<b>15,33</b>	<b>12,71</b>	<b>13,91</b>	<b>P</b>
Stranded conductors	(after 24 cycles)	<b>13,36</b>	<b>14,49</b>	<b>10,92</b>	<b>P</b>
Flexible conductors	(after 24 cycles)	<b>13,41</b>	<b>16,01</b>	<b>16,31</b>	<b>P</b>
Solid conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>23,00</b>	<b>19,07</b>	<b>20,87</b>	<b>P</b>
Stranded conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>20,04</b>	<b>21,74</b>	<b>16,38</b>	<b>P</b>
Flexible conductors	(1,5 times 24 <sup>th</sup> cycle value)	<b>20,12</b>	<b>24,02</b>	<b>24,47</b>	<b>P</b>
Solid conductors	(after 192 cycles)	<b>15,28</b>	<b>12,44</b>	<b>13,83</b>	<b>P</b>
Stranded conductors	(after 192 cycles)	<b>13,26</b>	<b>14,71</b>	<b>13,00</b>	<b>P</b>
Flexible conductors	(after 192 cycles)	<b>13,68</b>	<b>16,55</b>	<b>16,33</b>	<b>P</b>
Supplementary information:					

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>16.3B</b>	<b>TABLE: Ball pressure test of insulating materials</b>		
	Test temperature (°C)..... :	<input type="checkbox"/> 70 <input type="checkbox"/> T + 40 =	
Part under test	Material designation / manufacturer	Impression diameter (mm)	<b>N</b>
Supplementary information:			

17	<b>TABLE: Clearances and creepage distances all types, except 221-2401 and 221-2411</b>				
	Rated insulation voltage (V)..... :	450 V			<b>P</b>
	Clearance cl, creepage distance cr and distance through sealing compound tsc at/of:	Required cl, cr, tsc (mm)	Measured cl (mm)	Measured cr (mm)	Measured tsc (mm)
	<b>Between clamping units</b>				
	<b>Clamping units - surface</b>	<b>4</b>	<b>4,05</b>	<b>4,07</b>	<b>-</b>
Supplementary information:					

17	<b>TABLE: Clearances and creepage distances types 221-2401 and 221-2411</b>				
	Rated insulation voltage (V)..... :	450 V			<b>P</b>
	Clearance cl, creepage distance cr and distance through sealing compound tsc at/of:	Required cl, cr, tsc (mm)	Measured cl (mm)	Measured cr (mm)	Measured tsc (mm)
	<b>Between clamping units</b>				
	<b>Clamping units - surface</b>	<b>4</b>	<b>4,11</b>	<b>4,11</b>	<b>-</b>
Supplementary information:					

Remarks

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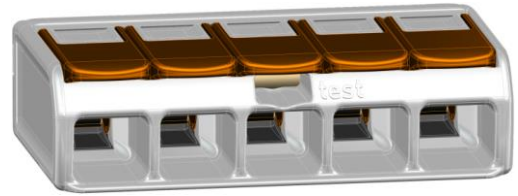
**Illustrations:**



Type: 221-412



Type: 221-413



Type: 221-415



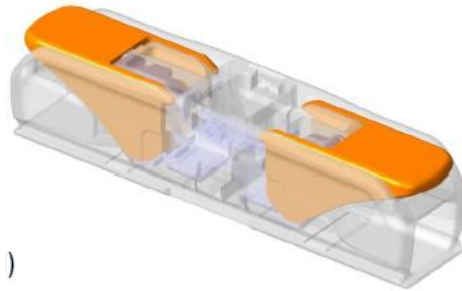
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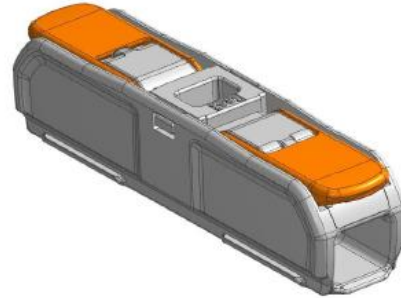
Type: 221-483



Type: 221-485



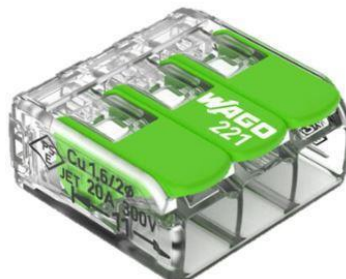
Type 221-2401



Type 221-2411



Type 221-422



Type 221-423



Type 221-425

Annex A IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

<b>ATTACHMENT TO TEST REPORT IEC 60998-2-2</b> <b>EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES</b> <b>Connecting devices for low voltage circuits for household and similar purposes</b> <b>Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units</b>			
<b>Differences according to</b> ..... : EN 60998-1 : 2004 and EN 60998-2-2 : 2004 in conjunction with IEC 60998-1 : 2002 and IEC 60998-2-2 : 2002			
<b>Attachment Form No.</b> ..... : EU_GD_IEC60998_2_2C			
<b>Attachment Originator</b> ..... : DEKRA certification B.V.			
<b>Master Attachment</b> ..... : Date 2020-08-28			
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EN 60998-1 CENELEC COMMON MODIFICATIONS			
<b>1</b>	<b>Scope</b>		
delete	In the first paragraph ", and equivalent AWG conductors".		<b>P</b>
<b>6.2</b>	<b>Main characteristics</b>		
delete	NOTE 1		<b>P</b>
<b>8.3</b>	<b>Marking</b>		
delete	the NOTE		<b>P</b>
<b>11.6</b>	<b>Construction</b>		
delete	", or equivalent AWG conductors".		<b>P</b>
<b>15.4</b>	<b>Temperature rise</b>		
delete	the NOTE		<b>P</b>
<b>Annex</b>	<b>B</b>		
delete	The whole annex		<b>P</b>

Annex A IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	<b>EN 60998-2-2 CENELEC COMMON MODIFICATIONS</b>		
<b>10.103</b>	<b>Connection of conductors</b>		
delete	NOTE 1		<b>P</b>
delete	In Table 101, NOTE 2, "and for AWG conductors, on ASTM B172-71, ICEA publication S-19-81, ICEA Publication S-66-524 and ICEA Publication S-65-516."		
<b>10.105</b>			
delete	NOTE 1 and NOTE 2		<b>P</b>
<b>10.106</b>			
delete	NOTE 1 and NOTE 2		<b>P</b>
<b>14.101</b>	<b>Mechanical strength</b>		
delete	the NOTE		<b>P</b>
<b>Annex</b>	<b>BB</b>		
delete	The whole annex		<b>P</b>

Annex B IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>ANNEX ZB</b> <b>(normative)</b> <b>SPECIAL NATIONAL CONDITIONS</b> <b>(EN 60998-1)</b>			
<b>Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.</b>			
<b>NOTE If it affects harmonization, it forms part of the European Standard.</b>			
<b>For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.</b>			
Clause			
<b>6.2</b>	<b>United Kingdom</b>		
Replace	The entire subclause by:  6.2 The standard rated connecting capacities are 0,2 mm <sup>2</sup> , 0,34 mm <sup>2</sup> , 0,5 mm <sup>2</sup> , 0,75 mm <sup>2</sup> , 1 mm <sup>2</sup> , 1,25mm <sup>2</sup> , 1,5 mm <sup>2</sup> , 2,5 mm <sup>2</sup> , 4 mm <sup>2</sup> , 6 mm <sup>2</sup> , 10 mm <sup>2</sup> , 16 mm <sup>2</sup> , 25 mm <sup>2</sup> , and 35 mm <sup>2</sup>		<b>P</b>