CERTIFICATE

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

Licensee:
WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27
32423 Minden/westfalen, Germany

Product	:	Connection devices for low-voltage circuits for household and similar purposes
Trade name(s)	:	WAGO
Type(s)/model(s)	:	873-902, 873-903 and 873-953

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard EN 60998-1:2004 and EN 60998-2-2:2004
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 900220

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 24 June 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-114174

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

H.R.M. Barends
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

KEMA KEUR

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Connection devices for low-voltage circuits for household and similar purposes
Trade name(s)	:	WAGO
Type(s)/model(s)	:	873-902, 873-903 and 873-953
Rated current	:	9 A (female part) 32 A (male part)
Rated voltage	:	400 V
Connectable conductors	:	0,75 mm² solid (female part) 0,75 mm² - 4 mm² solid (male part) 1,5 mm² - 2,5 mm² stranded (male part)
Terminals	:	screwless clamping units

Product data – type 873-902

Number of pole	:	two-pole
Description	:	connection device consist of a male and female part which can connected to each other female part: provided with 1 screwless clamping unit and 1 female plug per pole male part: provided with 2 screwless clamping units and 1 male plug per pole

Product data – type 873-903

Number of poles	:	three-pole
Description	:	connection device consist of a male and female part which can connected to each other female part: provided with 1 screwless clamping unit and 1 female plug per pole male part: provided with 2 screwless clamping units and 1 male plug per pole

Product data – type 873-953

Number of poles	:	two-pole with earthing contact
Description	:	connection device consist of a male and female part which can connected to each other female part: provided with 1 screwless clamping unit and 1 female plug per pole male part: provided with 2 screwless clamping units and 1 male plug per pole

TESTS

Test requirements

EN 60998-1:2004
EN 60998-2-2:2004

Test result

The test results are laid down in DEKRA test file 224360300.

Additional information
This certificate replaces certificate No. 2178521.02 which we hereby declare invalid.

Conclusion
The examination proved that all requirements were met.

Factory locations
WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27
32423 Minden/westfalen, Germany

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

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

Wago Pvt. Ltd.
C-27, Sector-58, Phase III
201301 Noida Uttar Pradesh, India

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

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

Wago Elwag
Innowacyjna 2
55-330 Wroblowice, Poland

ETICS OD ECS 040-1 January 2019	Responsible CB: DEKRA

TEST REPORT SUMMARY

Report Number ..... :	**2243603.50**
Date of issue ..... :	**2020-06-23**
Tested by (name, function, signature):	**B. Veenvliet**
Witnessed by (name, function, signature):	
Approved by (name, function, signature):	**H.L. Schendstok**
Supervised by (name, function, signature):	



Testing Laboratory ..... :	**DEKRA Certification B.V.**
Address ..... :	**Meander 1051, 6825 MJ Arnhem, The Netherlands**
Testing procedure ..... :	☐ ENEC ☒ CCA NTR
	☐ ENEC based on IECEE CBTC with number: …….
Customer Testing Procedure..... :	☐ TMP/CTF Stage 1 ☐ WMT/CTF Stage 2 ☐ SMT/CTF Stage 3
Applicant ..... :	**WAGO Kontakttechnik GmbH & Co. KG**
Address ..... :	**Hansastraße 27, 32423 Minden/Westfalen, Germany**
Manufacturer ..... :	**WAGO Kontakttechnik GmbH & Co. KG**
Address ..... :	**Hansastraße 27, 32423 Minden/Westfalen, Germany**
Product ..... :	**Connection devices for low-voltage circuits for household and similar purposes**
Model/Type reference ..... :	**873**
Trademark ..... :	WAGO
Ratings ..... :	**male part: 4,0 mm², 32 A, 400 V** **female part: 0,75 mm², 9 A, 400 V**
Certification Scheme ..... :	☐ ENEC ☒ CCA ☐ Other: _____
Standard(s) ..... :	**EN 60998-2-2:2004 in conjunction with EN 60998-1:2004**

☐ The text of the a.m. European Standard was approved by CENELEC is equivalent with the corresponding IEC Publication.

☒ The text of the a.m. European Standard was approved by CENELEC with agreed common modifications and is not equivalent with the corresponding IEC Publication. An EU Deviation Addendum has to be issued.

This EN test report consists of the following parts:

☒ IEC Test Report Number..... :	**2243603.50**
☒ EU Deviation Addendum..... :	**Attachment A of 2243603.50**

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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:

DEKRA

TEST REPORT
IEC 60998-2-2
Connecting devices for low voltage circuits for household and similar purposes
Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

Report Reference No.....:	**2243603.50**
Date of issue……..…..:	**2020-06-23**
Total number of page……..……:	**29 pages**
Applicant's name……..……..……:	**WAGO Kontakttechnik GmbH & Co. KG**
Address....……..…….....:	**Hansastraße 27, 32423 Minden, Germany**
Test specification:	
Standard.....…… :	IEC 60998-2-2 (see also IEC 60998-1:2002)
Test procedure..... :	CB Scheme
Non-standard test method……:	N/A
Test Report Form No. ..... :	IEC60998_2_2B
Test Report Form(s) Originator..... :	DEKRA certification B.V.
Master TRF..... …….:	Dated 2013-02

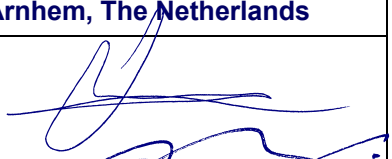
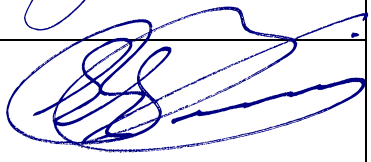
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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description.....:	**Connection devices for low-voltage circuits for household and similar purposes**
Trade Mark .....:	
Manufacturer.....:	**WAGO Kontakttechnik GmbH & Co. KG**
Model/Type reference .....:	**873**
Ratings .....:	**male part: 4,0 mm², 32 A, 400 V** **female part: 0,75 mm², 9 A, 400 V**

Testing procedure and testing location:		
☒ **CB Testing Laboratory:**	**DEKRA Certification B.V.**	
Testing location/ address .....:	**Meander 1051, 6825 MJ Arnhem, The Netherlands**	
Tested by (name + signature).....:	**B. Veenvliet**	
Approved by (name + signature).....:	**H.L. Schendstok**	
☐ **Testing procedure: TMP**		
Testing location/ address .....:		
Tested by (name + signature).....:		
Approved by (name + signature).....:		
☐ **Testing procedure: WMT**		
Testing location/ address .....:		
Tested by (name + signature).....:		
Witnessed by (name + signature)....:		
Approved by (name + signature).....:		
☐ **Testing procedure: SMT**		
Testing location/ address .....:		
Tested by (name + signature).....:		
Approved by (name + signature).....:		
Supervised by (name + signature) ..:		

List of Attachments (including a total number of pages in each attachment):

Attachment A: EN 60998-1 CENELEC COMMON MODIFICATIONS and EN 60998-2-2 CENELEC COMMON MODIFICATIONS (2 pages)
Attachment B: EN 60998-1 SPECIAL NATIONAL CONDITIONS, United Kingdom (1 page)

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
Project 2178521.51 **Complete examination** **All tests carried out on type 873 903 unless otherwise stated.** **Project 224360300.50** **This test report replaces test report 2178521.51 issued on 2015-03-31, due to the fact that the connectable conductors have been changed.** **The following tests are carried out:** **clause 10.104, 10.105, 10.106, 12, 13, 14.101, 15 and 15.101**	**DEKRA Certification B.V.** **Meander 1051, 6825 MJ Arnhem, The Netherlands**

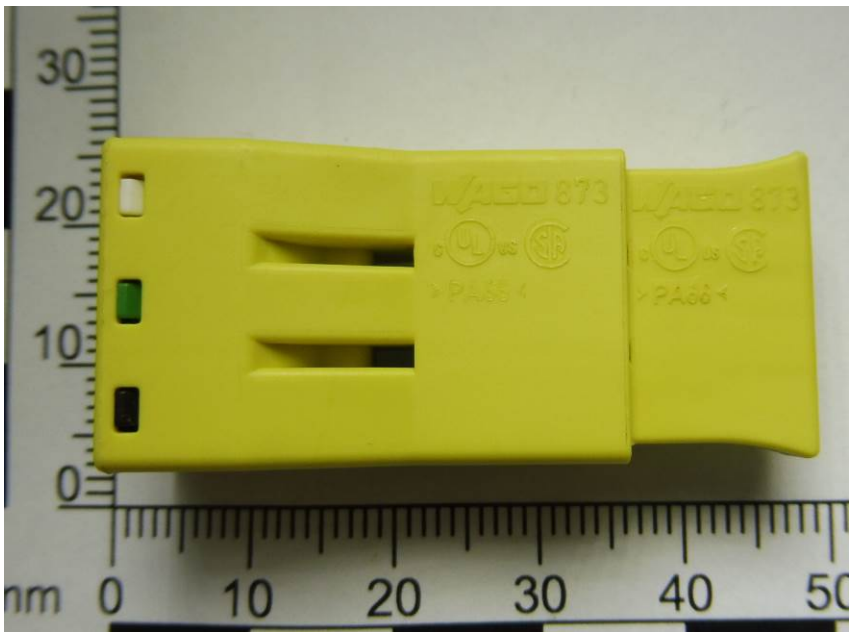
Summary of compliance with National Differences
List of countries addressed:

EN 60998-1 SPECIAL NATIONAL CONDITIONS, United Kingdom

☒ **The product fulfils the requirements of EN 60998-2-2:2004 in conjunction with EN 60998-1:2004.**

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.



Test item particulars:	
Number of terminals……..:	☐ single ☒ multiway
Protection against electric shock……..:	☒ with ☐ without
Means of fixing……..:	☐ with ☒ without
Rated temperature……..:	☒ without T marking ☐ with T marking (°C)
IP number……:	IP-
Type of terminals, screwless-type.....:	☐ universal non-universal ☒ push wire
Conductor type……:	☒ rigid ☐ flexible
Rated connecting capacity……..:	☐ 0,5 mm² ☒ 0,75 mm² ☐ 1 mm² ☒ 1,5 mm²
Conductor insulation……..:	☒ 2,5 mm² ☒ 4 mm² ☐ 6 mm² ☐ 10 mm² ☐ 16 mm² ☐ 25 mm² ☐ 35 mm²
Rated voltage (V ac / V dc)……..:	☒ AC ☐ DC
Classification of installation and use.....:	
Supply Connection .....:	
.....:	
Possible test case verdicts:	
- test case does not apply to the test object..... :	**N/A**
- test object does meet the requirement..... :	**P (Pass)**
- test object does not meet the requirement..... :	**F (Fail)**
Testing ..... :	
Date of receipt of test item..... :	**03-2015 and 2020-01**
Date (s) of performance of tests ..... :	**03-2015 and 2020-02**

General remarks:

This report in not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in according with IECEE 02.

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 testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	
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 ..... :	☒ **Yes** ☐ **Not applicable**
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)..... :	**Wago Elwag sp.z.o.o.** **ul. Piekna 58 a** **50-506, Wroclaw, Poland** **Wago Elwag** **Innowacyjna 2** **55-330 Wroblowice, Poland** **Wago Pvt. Ltd.** **C-27, Sector-58, Phase III** **201301 Noida Uttar Pradesh, India** **Wago Electronic (Tianjin) Co. Ltd.** **No. 5 Quanhui Road** **Wu Qing Development Area** **301700 Tianjin, China** **WAGO Kontakttechnik GmbH & Co. KG** **Hansastraße 27, 32423 Minden/Westfalen** **Germany** **WAGO Kontakttechnik GmbH & Co. KG, Werk Sondershausen** **Waldstrasse 1, 99706, Sondershausen** **Germany** **WAGO Contact S.A.** **Route de l'Industrie 19, CP 168, 1564, Domdidier, Switzerland**
General product information: **See page 24 - 26.**	

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
8	**MARKING**		
8.1	On main part:		
	a) rated connecting capacity (mm²) .....:	**0,75 mm² solid (female part)** **4,0 mm² solid (male part)**	**P**
	b) rated insulation voltage (V).....:	**400 V** **in catalogue**	**P**
	c) T marking (°C) (if > 40 °C or < -5 °C) .....:		**N/A**
	d) type reference .....:	**873**	**P**
	e) manufacturer's or responsible vendor's name, trademark or identification mark .....:	WAGO	**P**
	f) IP if > IP20 .....:		**N/A**
	Small devices: only d) and e) indicated on device		**P**
	All marks visible on smallest package unit	**catalogue**	**P**
8.101	Type of acceptable conductor "s" "r" or "f"	**"S"**	**P**
8.102	Marking indicating the length of insulation to be removed before insertion of the conductor	**11 – 13 mm (male part)** **9-11 mm (female part)**	**P**
8.2	Multiway terminal devices: at least two adjacent		**P**
8.3	When symbols are used they shall be as follow: V for volts mm² or ☐ for square millimetres T for T-rating		**P**
8.4	Marking: durable and easily legible; 15 s water; 15 s hexane		**P**

9	**PROTECTION AGAINST ELECTRIC SHOCK**		
	Live parts not accessible		**P**

10	**CONNECTION OF CONDUCTORS**		
10.1	Connecting devices allow correct connection of conductors		**P**
10.101	Connection or disconnection: use a general tool or simple insertion		**P**
	Disconnection operation other than a pull		**P**
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		**P**

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Universal terminals shall accept rigid(solid or stranded) and flexible unprepared conductors		
	Non-universal terminals shall accept the types of conductors declared by the manufacturer		
	Rated connecting capacity (mm²).....:	**Female part:** **0,75 mm² solid** **Male part:** **4,0 mm² solid**	**P**
	Suitable for connecting cross-sectional areas (mm²) .....:	**Female part:** **0,2 mm² - 0,75 mm² solid** **Male part:** **0,75 mm² - 4,0 mm² solid** **1,5 mm² - 2,5 mm² stranded**	**P**
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		**P**
	Smallest diameter (mm); largest diameter (mm)....:	**Female part:** **0.51 mm / 1,0 mm solid** **Male part:** **1,0 mm/ 2,4 mm solid** **1,7 mm / 2,2 mm stranded**	**P**
	During the test: terminals show no damage		**P**
10.104	Terminals clamp the conductor without undue damage:		
10.104.1	Connection/disconnection 5 times: smallest diameter (mm).....:	**Female part:** **0,2 mm² solid** **Male part:** **0,75 mm² solid** **1,5 mm² stranded**	**P**
	Connection/disconnection 5 times: largest diameter (mm).....:	**Female part:** **0,75 mm² solid** **Male part:** **4,0 mm² solid** **2,5 mm² stranded**	**P**
	After the test, terminal not damaged		**P**
10.104.2	Rated cross-sectional area (mm²) .....:	**Male part:** **1,5 mm² Stranded** **2,5 mm² stranded**	**P**
	Type .....:	**Stranded**	**P**

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	After the test, no wire of conductor escaped outside the terminal		**P**
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	**P**
10.106	Pull test:		
	- during the test the conductor does not come out	See appended table 10.106	**P**
11	**CONSTRUCTION**		
11.101	Contact pressure not transmitted via insulating material, unless there is sufficient resiliency		**P**
11.102	Insertion and disconnection, in accordance with manufacturer's instructions		**P**
	Openings clearly distinguishable		**P**
11.103	Terminals so constructed that:		
	- each conductor is clamped individually		**P**
	- conductors can be connected or disconnected at same time or separately		**P**
	Possible to clamp maximum number of conductors		**P**
11.104	Inadequate insertion of conductor avoided		**P**
11.2	Clamping units clamp conductors reliably and between metal surfaces		**P**
11.3	Connecting devices: insulation of conductors not in contact with live parts of different polarity		**P**
11.4	Insulating lining: adequate mechanical strength and secured in a reliable manner		**P**
11.5	Current-carrying parts: adequate mechanical strength, electrical conductivity and resistance to corrosion; type of metal.....:		**P**
	Current-carrying parts not made with electroplated coating if subjected to mechanical wear		**P**
11.6	Terminals: possible to connect number of conductors as specified by the manufacturer:		
	- number of conductors.....:	**1**	**P**
	- rigid, cross-sectional area (mm²).....:	**male part: 0,75 mm² solid** **female part:** **0,75 mm² - 4,0 mm² solid** **1,5 mm² – 2,5 mm² stranded**	**P**
	- flexible, cross-sectional area (mm²).....:	**-**	**N/A**

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
11.7	Fixing means of bases do not serve any other purpose		**P**
12	**RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER**		
12.1	Connecting devices resistant to ageing; after the test (168 h): no cracks visible, not sticky or greasy, no damage; test temperature (°C)..... :	☒ **70 °C** ☐ **T + 30 °C=..°C**	**P**
12.2	After humidity test (91-95%): no damage; test duration (168 h for connecting devices > IPx2, 48 h for all other)..... :	***48 h***	**P**
12.3	IP test (IEC 60529)..... :	IPx	**N/A**
	After the test, electric strength test as 13.4, and by inspection	IPx	**N/A**
	no appreciable entry of water		**N/A**
13	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		
13.1	Insulated connecting devices provided with adequate insulation resistance and electric strength	**female part:** **0,75 mm² solid** **Male part:** **0,75 mm^2 - 4,0 mm^2 solid**	**P**
13.2	Insulation between the connected conductors and the external surface is adequate for all the combinations of conductors		**P**
13.3	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 13.3	**P**
13.4	Electric strength test	See appended table 13.4	**P**
14	**MECHANICAL STRENGTH**		
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° ± 5°		
	Deflection test (principle of test apparatus shown in figure 103a):		
	- requirement: ≤ 2,5 mV	See appended table 14.101	**P**
	max measured voltage drop (mV)	**2,21 mV**	**P**
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage	**6,76 gr (connected)**	**P**
14.3	Impact test (for > 50 g): 10 blows:		
	- height of fall: 7,5 cm		**N/A**
	- height of fall: 10 cm		**N/A**

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- height of fall: 20 cm		**N/A**
	- height of fall: 25 cm		**N/A**
	After the test, no damage and live parts shall not become accessible		**N/A**
15	**TEMPERATURE RISE**		
	requirement: ≤ 45K		**P**
	max measured temperature rise (K)	See appended table 15	**P**
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		**P**
	Cabinet temperature (°C).....:	☒ 40 ☐ T-marking: **..°C**	**P**
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24th cycle value	See appended table 15.101	**P**
16	**RESISTANCE TO HEAT**		
16.1	Connecting devices are sufficiently resistant to heat		**P**
16.2	Heating cabinet test	See appended table 16.2	**P**
	After the test: no changes impairing further use and markings still legible		**P**
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	**P**
	Impression diameter not exceed 2 mm	**1,15 mm**	**P**
	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	**N/A**
	Impression diameter not exceed 2 mm		**N/A**
17	**CLEARANCES AND CREEPAGE DISTANCES**		
	Creepage distances, clearances and distances through sealing compound	See appended table 17	**P**
18	**RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE**		
	Glow-wire test (clauses 4 to 10 of IEC 60695-2-10)	See appended table 18	**P**
	No visible flames and no sustained glowing or flame and glowing extinguished within 30 s		**P**
	No ignition of the tissue paper or scorching of the board		**P**

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

19	**RESISTANCE OF INSULATING MATERIAL TO TRACKING**		
	Tracking test (IEC 60112): PTI 175 V, 50 drops, solution A	See appended table 19	**P**

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

10.105	**TABLE: Clamping securement and damage to the conductor test**					
	Model/type reference……..…..:	**type 873**				**P**
No of sample	Conductor cross-sectional area (mm²)	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1 - 3	**0,75 mm² F**	**solid**	**0,4 kg**	**260 mm**	**6,5 mm**	**P**
1 - 3	**0,75 mm² M**	**solid**	**0,4 kg**	**260 mm**	**6,5 mm**	**P**
1 - 3	**4,0 mm² M**	**solid**	**0,9 kg**	**280 mm**	**9,5 mm**	**P**
1 - 3	**1,5 mm² M**	**Stranded**	**0,4 kg**	**260 mm**	**6,5 mm**	**P**
1 - 3	**2,5 mm² M**	**Stranded**	**0,7 kg**	**280 mm**	**9,5 mm**	**P**
1 - 3	**0,2 mm² F**	**solid**	**0,3 kg**	**260 mm**	**6,5 mm**	**P**
Remarks: **F = Female** **M = Male**						

10.106	**TABLE: Pull-out test**			
	Model/type reference……..…..:	**type 873**		**P**
No of sample	Conductor cross-sectional area (mm²)	Conductor type	Pull force (N)	
1 - 3	**0,75 mm² F**	**solid**	**30 N**	**P**
1 - 3	**0,75 mm² M**	**solid**	**30 N**	**P**
1 - 3	**4,0 mm² M**	**solid**	**60N**	**P**
1 - 3	**1,5 mm² M**	**stranded**	**40 N**	**P**
1 - 3	**2,5 mm² M**	**stranded**	**50 N**	**P**
1 - 3	**0,2 mm² F**	**solid**	**10 N**	**P**
Remarks: **F = Female** **M = Male**				

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

13.3	**TABLE: Insulation resistance**		
	Model/type reference……..…..:	**type 873**	**P**
	Smallest cross-sectional area (mm²) :	**Female part:** **0,75 mm² solid** **Male part:** **0,75 mm² solid**	**P**
	Largest cross-sectional area (mm²) :	**Female part:** **0,75 mm² solid** **Male part:** **4,0 mm² solid** **2,5 mm² stranded**	**P**

Test voltage applied between	**Measured (MΩ)**	**Required (MΩ)**
All clamping units together and the body	**7,95 MΩ**	**> 5 MΩ**
Each clamping unit and all others together	**25 MΩ**	**> 5 MΩ**

Supplementary information:
Female part

13.4	**TABLE: Electric strength test**		
	Model/type reference……..…..:	**type 873**	**P**
	Rated insulation voltage (V)……..:	**400 V**	

Test voltage applied between	**Test voltage (V)**	**Flashover / breakdown (Yes/No)**
All clamping units together and the body	**2500 V**	**No**
Each clamping unit and all others together	**2500 V**	**No**

Supplementary information:

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

14.101	**TABLE: Mechanical strength type 873 male part**				
	0,1 times the test current (A) ..... :	**0,9 A**			**P**
	smallest cross-sectional area (mm^2) 10.103 ..... :	**0,75 mm² solid (male part)**			**P**
	force (N) (table 104) ..... :	**0,16 N**			**P**
	Distance (mm) (table 104) ..... :	**100 mm**			**P**
	-screwless terminal number	**1**	**2**	**3**	**-**
	- voltage drop measured (mV) (1st deflection) ..... :	**2,10**	**1,72**	**1,65**	**P**
	- voltage drop measured (mV) (2nd deflection) ..... :	**1,84**	**1,81**	**1,60**	**P**
	- voltage drop measured (mV) (3rd deflection) ..... :	**1,76**	**1,66**	**1,57**	**P**
	- voltage drop measured (mV) (4th deflection) ..... :	**1,82**	**1,72**	**1,54**	**P**
	- voltage drop measured (mV) (5th deflection) ..... :	**1,84**	**1,74**	**1,57**	**P**
	- voltage drop measured (mV) (6th deflection) ..... :	**1,76**	**1,82**	**1,58**	**P**
	- voltage drop measured (mV) (7th deflection) ..... :	**2,00**	**1,74**	**1,60**	**P**
	- voltage drop measured (mV) (8th deflection) ..... :	**1,75**	**1,72**	**1,57**	**P**
	- voltage drop measured (mV) (9th deflection) ..... :	**1,81**	**2,00**	**1,57**	**P**
	- voltage drop measured (mV) (10th deflection) ..... :	**1,98**	**2,05**	**1,63**	**P**
	- voltage drop measured (mV) (11th deflection) ..... :	**2,00**	**2,14**	**1,56**	**P**
	- voltage drop measured (mV) (12th deflection) ..... :	**2,21**	**2,06**	**1,58**	**P**
	- requirement: ≤ 2,5 mV				**P**
	0,1 times the test current (A) ..... :	**3,2 A**			**P**
	Largest cross-sectional area (mm^2) 10.103 ..... :	**4 mm² solid (male part)**			**P**
	force (N) (table 104) ..... :	**2 N**			**P**
	Distance (mm) (table 104) ..... :	**100 mm**			**P**
	- screwless terminal number ..... :	1	2	3	—
	- voltage drop measured (mV) (1st deflection) ..... :	**1,81**	**0,89**	**1,11**	**P**
	- voltage drop measured (mV) (2nd deflection) ..... :	**1,78**	**0,91**	**1,18**	**P**
	- voltage drop measured (mV) (3rd deflection) ..... :	**170,**	**0,94**	**1,16**	**P**
	- voltage drop measured (mV) (4th deflection) ..... :	**1,69**	**0,97**	**1,14**	**P**
	- voltage drop measured (mV) (5th deflection) ..... :	**1,65**	**0,95**	**1,09**	**P**
	- voltage drop measured (mV) (6th deflection) ..... :	**1,66**	**0,95**	**1,04**	**P**
	- voltage drop measured (mV) (7th deflection) ..... :	**1,60**	**0,94**	**1,05**	**P**
	- voltage drop measured (mV) (8th deflection) ..... :	**1,58**	**0,96**	**1,10**	**P**

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
	- voltage drop measured (mV) (9th deflection) .....:	**1,62**	**0,97**	**1,12**	**P**
	- voltage drop measured (mV) (10th deflection) .....:	**1,64**	**0,98**	**1,08**	**P**
	- voltage drop measured (mV) (11th deflection) .....:	**1,60**	**0,95**	**1,04**	**P**
	- voltage drop measured (mV) (12th deflection) .....:	**1,64**	**0,96**	**1,01**	**P**
	- requirement: ≤ 2,5 mV				**P**
14.101	**TABLE: Mechanical strength type 873 female part**				
	0,1 times the test current (A).....:	**0,4 A**			**P**
	smallest cross-sectional area (mm²) 10.103 .....:	**0,2 mm² solid (female part)**			**P**
	force (N) (table 104) .....:	**0,09 N**			**P**
	Distance (mm) (table 104) .....:	**100 mm**			**P**
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1st deflection) .....:	**0,36**	**0,59**	**0,47**	**P**
	- voltage drop measured (mV) (2nd deflection) .....:	**0,38**	**0,61**	**0,46**	**P**
	- voltage drop measured (mV) (3rd deflection) .....:	**0,39**	**0,63**	**0,44**	**P**
	- voltage drop measured (mV) (4th deflection) .....:	**0,40**	**0,60**	**0,41**	**P**
	- voltage drop measured (mV) (5th deflection) .....:	**0,44**	**0,62**	**0,40**	**P**
	- voltage drop measured (mV) (6th deflection) .....:	**0,42**	**0,60**	**0,38**	**P**
	- voltage drop measured (mV) (7th deflection) .....:	**0,45**	**0,58**	**0,41**	**P**
	- voltage drop measured (mV) (8th deflection) .....:	**0,42**	**0,58**	**0,40**	**P**
	- voltage drop measured (mV) (9th deflection) .....:	**0,40**	**0,57**	**0,38**	**P**
	- voltage drop measured (mV) (10th deflection) .....:	**0,39**	**0,55**	**0,37**	**P**
	- voltage drop measured (mV) (11th deflection) .....:	**0,41**	**0,36**	**0,35**	**P**
	- voltage drop measured (mV) (12th deflection) .....:	**0,44**	**0,55**	**0,38**	**P**
	- requirement: ≤ 2,5 mV				**P**
	0,1 times the test current (A).....:	**0,9 A**			**P**
	Largest cross-sectional area (mm²) 10.103.....:	**0,75 mm² solid (female part)**			**P**
	force (N) (table 104) .....:	**0,16 N**			**P**
	Distance (mm) (table 104) .....:	**100 mm**			**P**
	-screwless terminal number	**1**	**2**	**3**	-
	- voltage drop measured (mV) (1st deflection) .....:	**1,75**	**1,40**	**2,04**	**P**
	- voltage drop measured (mV) (2nd deflection) .....:	**1,68**	**1,46**	**1,81**	**P**
	- voltage drop measured (mV) (3rd deflection) .....:	**1,84**	**1,41**	**1,75**	**P**
	- voltage drop measured (mV) (4th deflection) .....:	**1,55**	**1,55**	**2,05**	**P**

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

	- voltage drop measured (mV) (5th deflection) .....:	**1,61**	**1,50**	**1,79**	**P**
	- voltage drop measured (mV) (6th deflection) .....:	**1,54**	**1,48**	**1,82**	**P**
	- voltage drop measured (mV) (7th deflection) .....:	**1,47**	**1,47**	**1,72**	**P**
	- voltage drop measured (mV) (8th deflection) .....:	**1,66**	**1,54**	**1,71**	**P**
	- voltage drop measured (mV) (9th deflection) .....:	**1,58**	**1,53**	**2,05**	**P**
	- voltage drop measured (mV) (10th deflection) .....:	**1,58**	**1,46**	**1,87**	**P**
	- voltage drop measured (mV) (11th deflection) .....:	**1,57**	**1,51**	**1,88**	**P**
	- voltage drop measured (mV) (12th deflection)	**1,54**	**1,55**	**1,89**	**P**
	- requirement: ≤ 2,5 mV				**P**

15	**TABLE: Temperature rise**		
	Model/type reference……..:	**type 873**	
	Terminal ..... :	☐ **single** ☒ **multiway**	—
	T marking (°C) ..... :	☐ **Yes** **(..°C):**	—
	Largest cross-sectional area (mm²)..... :	**0,75 mm² (female par t)**	**P**
	Conductors ..... :	**solid**	**P**
	Rated connecting capacity (mm²)..... :	**0,75 mm² solid**	**P**
	Test current (A)..... :	**9 A**	**P**

Thermocouple Locations	**max. temperature measured, (K)**	**max. temperature limit, (K)**
Female	**15**	**45**
Female	**22**	**45**
Female	**20**	**45**
Male	**20**	**45**
Male	**22**	**45**
Male	**20**	**45**
Inside clamping unit	**19**	**45**
Supplementary information: **Ambient temperature 21,2 °C**		

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

15	**TABLE: Temperature rise**		
	Model/type reference……..:	**type 873**	
	Terminal ..... :	☐ **single** ☒ **multiway**	**P**
	T marking (°C) ..... :	☐ **Yes** **(..°C):**	**—**
	Largest cross-sectional area (mm²)..... :	**4 mm² (male part)**	**P**
	Conductors ..... :	**solid**	**P**
	Rated connecting capacity (mm²)..... :	**4 mm² solid**	**P**
	Test current (A)..... :	**32 A**	**P**

Thermocouple Locations	**max. temperature measured, (°C)**	**max. temperature limit, (°C)**
On conductor in the terminal T1	**35 K**	**45 K**
On conductor in the terminal T2	**39 K**	**45 K**
On conductor in the terminal T3	**36 K**	**45 K**
Supplementary information:		

15.101	**TABLE: Temperature-cycling test**				
	Model/type reference ..... :	**type 873**			**P**
	Smallest cross-sectional area (mm^2) ..... :	**0,2 mm² solid (female part)**			**P**
	Test current (Table 2) (A)..... :	**4 A**			**P**
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)	**6,37 mV**	**6,47 mv**	**6,83 mV**	
Stranded conductors	(after 24 cycles)				
Flexible conductors	(after 24 cycles)				
Solid conductors	(1,5 times 24th cycle value)	**9,56 mV**	**9,7 mV**	**10,25 mV**	
Stranded conductors	(1,5 times 24th cycle value)				
Flexible conductors	(1,5 times 24th cycle value)				
Solid conductors	(after 192 cycles)	**6,34 mV**	**6,55 mV**	**6,79 mV**	**P**
Stranded conductors	(after 192 cycles)	**-**	**-**	**-**	**N**
Flexible conductors	(after 192 cycles)	**-**	**-**	**-**	**N**
Supplementary information:					

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

15.101	**TABLE: Temperature-cycling test**				
	Model/type reference ..... :	**type 873**			**P**
	Smallest cross-sectional area (mm^2) ..... :	**0,75 mm² solid (male) / 1,5 mm^2 Stranded (male)**			**P**
	Test current (Table 2) (A)..... :	**9 A (Solid) / 17,5 A (Stranded)**			**P**
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors (after 24 cycles)		**5,12 mV**	**4,74 mV**	**6,80 mV**	
Stranded conductors (after 24 cycles)		**20,12 mV**	**13,34 mV**	**11,98 mV**	
Flexible conductors (after 24 cycles)					
Solid conductors (1,5 times 24th cycle value)		**7,68 mV**	**7,11 mV**	**10,2 mV**	
Stranded conductors (1,5 times 24th cycle value)		**22,50 mV**	**20,01 mV**	**17 97 mV**	
Flexible conductors (1,5 times 24th cycle value)					
Solid conductors (after 192 cycles)		**5,09 mV**	**4,77 mV**	**6,94 mV**	**P**
Stranded conductors (after 192 cycles)		**19,88 mV**	**14,29 mV**	**12,36 mV**	**P**
Flexible conductors (after 192 cycles)		**-**	**-**	**-**	**N**
	Largest cross-sectional area (mm^2) ..... :	**4 mm² solid**			**P**
	Test current (Table 2) (A)..... :	**32 A**			**P**
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors (after 24 cycles)		**14,60 mV**	**15,80 mV**	**12,01 mV**	
Stranded conductors (after 24 cycles)					
Flexible conductors (after 24 cycles)					
Solid conductors (1,5 times 24th cycle value)		**21,85 mV**	**22,22 mV**	**17,30 mV**	
Stranded conductors (1,5 times 24th cycle value)					
Flexible conductors (1,5 times 24th cycle value)					
Solid conductors (after 192 cycles)		**14,57 mV**	**14,81 mV**	**11,53 mV**	**P**
Stranded conductors (after 192 cycles)		**-**	**-**	**-**	**N**
Flexible conductors (after 192 cycles)		**-**	**-**	**-**	**N**
Supplementary information:					

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

15.101	**TABLE: Temperature-cycling test**		
	Model/type reference .....:	**type 873**	**P**
	Largest cross-sectional area (mm^2) .....:	**0,75 mm² solid (female) / 2,5 mm^2 Stranded (male)**	**P**
	Test current (Table 2) (A).....:	**9 A (Solid) / 24 A (Stranded)**	**P**

Measured voltage drop of:	Measured voltage drop (mV)			
	Sample 1	Sample 2	Sample 3	
Solid conductors (after 24 cycles)	**0,73 mV**	**0,74 mV**	**0,77 mV**	
Stranded conductors (after 24 cycles)	**7,86 mV**	**18,91 mV**	**5,66 mV**	
Flexible conductors (after 24 cycles)				
Solid conductors (1,5 times 24th cycle value)	**1,10 mV**	**1,11 mV**	**1,16 mV**	
Stranded conductors (1,5 times 24th cycle value)	**11,79 mV**	**22,50 mV**	**8,49 mV**	
Flexible conductors (1,5 times 24th cycle value)				
Solid conductors (after 192 cycles)	**0,75 mV**	**0,74 mV**	**0,67 mV**	**P**
Stranded conductors (after 192 cycles)	**7,97 mV**	**19,3 mV**	**5,67 mV**	**P**
Flexible conductors (after 192 cycles)	**-**	**-**	**-**	**N**
Supplementary information:				

16.2	**TABLE: Heating cabinet test**			
	Test temperature (°C).....:	☒ 85°C ☐ T + 45 =		
Model/type reference		Sample 1	Sample 2	Sample 3
873-903				**P**
Supplementary information:				

16.3A	**TABLE: Ball pressure test of insulating materials**		
	Test temperature (°C).....:	☒ 125 ☐ T + 45 =	
Part under test	Material designation / manufacturer	Impression diameter (mm)	
Housing	**Thermoplastic material**	**1,15 mm**	**P**
Supplementary information:			

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

16.3B	TABLE: Ball pressure test of insulating materials		
	Test temperature (°C).....:	☐ 70 ☐ T + 40 =	
Part under test	Material designation / manufacturer	Impression diameter (mm)	N
Supplementary information:			

17	TABLE: Clearances and creepage distances				
	Rated insulation voltage (V) .....:	400 V			P
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)
Between clamping units and mounting		**4 mm**	**> 5 mm**	**> 5 mm**	-
Supplementary information:					

18	TABLE: Glow-wire test		
Part under test	Material designation / manufacturer	Test temperature (°C)	Result
Housing	**Thermoplastic material**	**850 °C**	**P**
Supplementary information:			

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

19	TABLE: Tracking		
Part under test	Material designation / manufacturer	Test voltage (V)	Remarks
Housing	**Thermoplastic material**	**175 V**	**P**
Supplementary information:			

Remarks

Product data

product	:	connecting device
trade name(s)	:	WAGO
type(s)	:	873-902, 873-903, 873-953
rated current	:	9 A (female part) 32 A (male part)
rated voltage	:	400 V
connectable conductors	:	0,75 mm² solid (female part) 0,75 mm² - 4,0 mm² solid (male part) 1,5 mm² - 2,5 mm² stranded (male part)
terminals	:	screwless clamping units

Product data - type 873-902

number of pole	:	two-pole
type	:	873-902
description	:	connection device consist of a male and female part which can connected to each other female part: provided with 1 screwless clamping unit and 1 female plug per pole male part: provided with 2 screwless clamping units and 1 male plug per pole

Product data - type 873-903

number of poles	:	three-pole
description	:	connection device consist of a male and female part which can connected to each other female part: provided with 1 screwless clamping unit and 1 female plug per pole male part: provided with 2 screwless clamping units and 1 male plug per pole

Product data - type 873-953

number of poles	:	two-pole with earthing contact
description	:	connection device consist of a male and female part which can connected to each other female part: provided with 1 screwless clamping unit and 1 female plug per pole male part: provided with 2 screwless clamping units and 1 male plug per pole

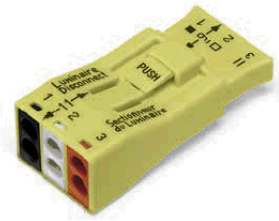
12 Luminaire Disconnect Connectors (US Version Only) 873 Series

484

PUSH WIRE®

2-conductor plug ❶	1-conductor socket ❷	2-conductor plug ❶	1-conductor socket ❷
AWG 18 - 12 "s"	AWG 18 "s"	AWG 18 - 12 "s"	AWG 18 "s"
AWG 16 - 12 "st"	600 V, 6 A	AWG 16 - 12 "st"	600 V, 6 A
11 - 13 mm / 0.47 in ❶		11 - 13 mm / 0.47 in ❶	
9 - 11 mm / 0.39 in ❷		9 - 11 mm / 0.39 in ❷	



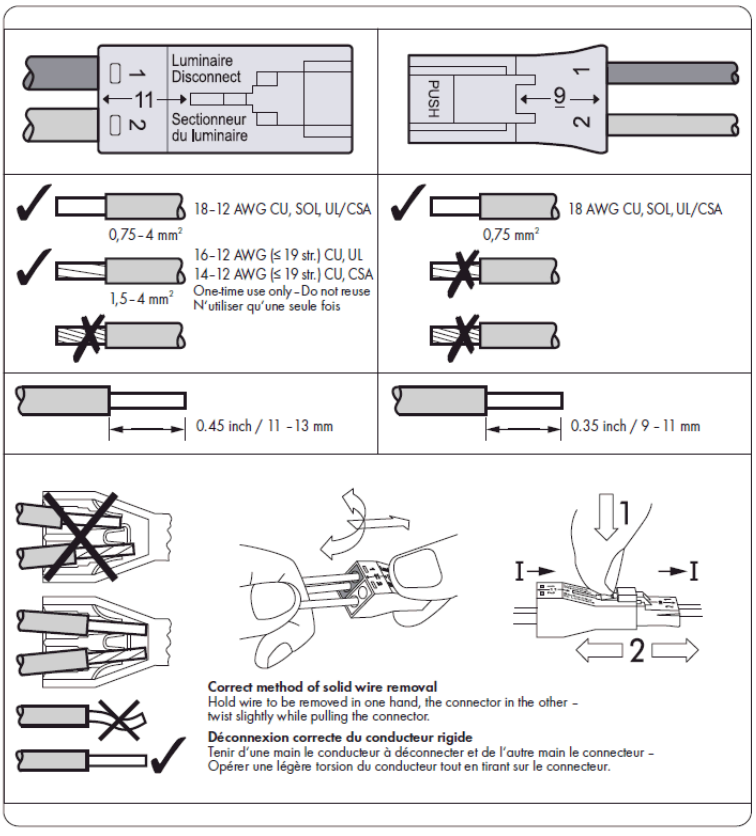


❶ 2-conductor plug
❷ 1-conductor socket

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Luminaire disconnect connector			Luminaire disconnect connector		
2	873-902	40	3	873-903	20

Touchproof connectors are required for ballast supply cables in the USA and Canada.
When exchanging a ballast:
1. The touchproof plug-in connection is disconnected first
2. The ballast is replaced
3. Network connection is restored by plugging the connection.

This streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock.
The 873 Series connectors are approved according to UL 2459 and CSA 22.2 for this type of application.



The 873 Series is approved to:

EN 60998
0.2 mm² - 0.5 mm² solid, 6A for female part
1.5 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

EN 61984
0.75 mm² solid, 6A for female part
0.75 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

Luminaire Disconnect Connectors (US Version Only)
873 Series

PUSH WIRE®

2-conductor plug ❶	1-conductor socket ❷
AWG 18 - 12 "s"	AWG 18 "s"
AWG 16 - 12 "st"	600 V, 6 A
11 - 13 mm / 0.47 in ❶	
9 - 11 mm / 0.39 in ❷	

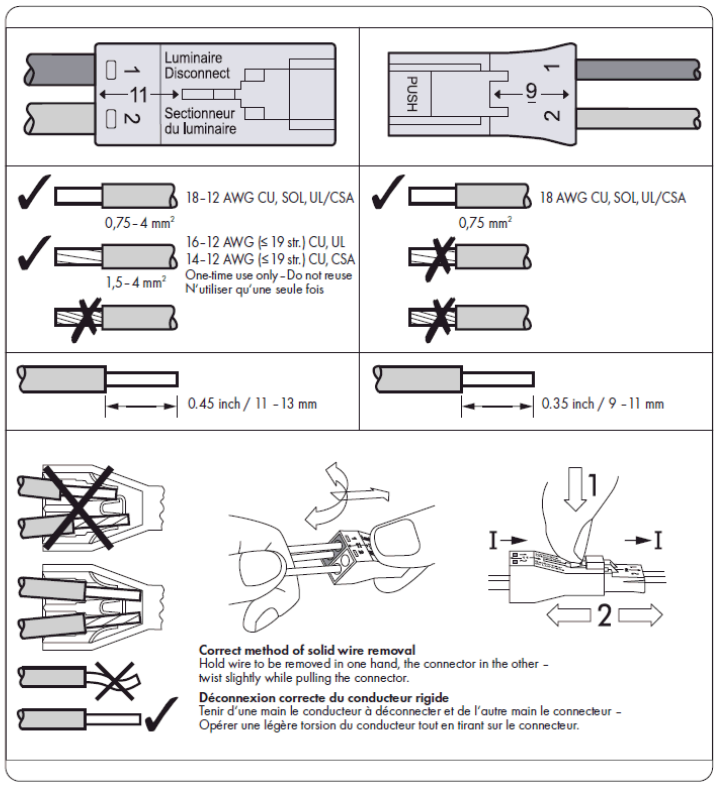


❶ 2-conductor plug
❷ 1-conductor socket

Pole No.	Item No.	Pack. Unit
Luminaire disconnect connector,		
preceding ground contact in center position		
3	873-953	500

Touchproof connectors are required for ballast supply cables in the USA and Canada.
When exchanging a ballast:
1. The touchproof plug-in connection is disconnected first
2. The ballast is replaced
3. Network connection is restored by plugging the connection.

This streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock.
The 873 Series connectors are approved according to UL 2459 and CSA 22.2 for this type of application.



873 Series approvals acc. to EN:

EN 60998
0.2 mm² - 0.5 mm² solid, 6A for female part
1.5 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

EN 61984
0.75 mm² solid, 6A for female part
0.75 mm² - 4 mm² solid, 32A for male part
400 V/4 kV/2

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

ATTACHMENT TO TEST REPORT IEC 60998-2-2
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Connecting devices for low voltage circuits for household and similar purposes
Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

Differences according to ..... :	EN 60998-1 : 2004 and EN 60998-2-2 : 2004 in conjunction with IEC 60998-1 : 2002 and IEC 60998-2-2 : 2002
Attachment Form No. ..... :	EU_GD_IEC60998-2-2B
Attachment Originator..... :	**DEKRA Certification B.V.**
Master Attachment ..... :	Date (2013-02)

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	EN 60998-1 CENELEC COMMON MODIFICATIONS		
1	**Scope**		
delete	In the first paragraph ", and equivalent AWG conductors".		**P**
6.2	**Main characteristics**		
delete	NOTE 1		**P**
8.3	**Marking**		
delete	the NOTE		**P**
11.6	**Construction**		
delete	", or equivalent AWG conductors".		**P**
15.4	**Temperature rise**		
delete	the NOTE		**P**
Annex	**B**		
delete	The whole annex		**P**

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

	EN 60998-2-2 CENELEC COMMON MODIFICATIONS		
10.103	**Connection of conductors**		
delete	NOTE 1		**P**
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."		**P**
10.105			
delete	NOTE 1 and NOTE 2		**P**
10.106			
delete	NOTE 1 and NOTE 2		**P**
14.101	**Mechanical strength**		
delete	the NOTE		**P**
Annex	**BB**		
delete	The whole annex		**P**

Attachment B: IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX ZB
(normative)
SPECIAL NATIONAL CONDITIONS
(EN 60998-1)

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the European Standard.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

Clause			
6.2	**United Kingdom**		
Replace	The entire subclause by: 6.2 The standard rated connecting capacities are 0,2 mm², 0,34 mm², 0,5 mm², 0,75 mm², 1 mm², 1,25 mm², 1,5 mm², 2,5 mm², 4 mm², 6 mm², 10 mm², 16 mm², 25 mm², and 35 mm²		**P**