ATTESTATION OF CONFORMITY

Issued to:	Wago-Kontakttechnik GmbH & Co. KG Hansastrasse 27 32423 Minden/Westfalen Germany
For the product:	tap-off connectors
Trade name:	WAGO
Type/Model:	730
Ratings:	500 V, 10 A
Manufactured by:	Wago-Kontakttechnik GmbH & Co. KG Hansastrasse 27 32423 Minden/Westfalen Germany
Requirements:	EN 60664-1:2007 : clause 5.2 for type 730-116 EN 60998-1:2004 : all types EN 60998-2-2:2004 : type 730-113, except clause 17 type 730-116 EN 60998-2-3:2004 : types 730-103, 730-123, 730-106, 730-126

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a test report no 2174149.50 and 2174149.51.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 February 2015 Number: 2174149.01A

DEKRA Certification B.V.

F.S. Strikwerda
Certification Manager

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-certification.com Company registration 09085396

TEST REPORT SUMMARY

Report Reference No. ..... :	**2174149.50**
Date of issue ..... :	**2015-02-04**
Tested by (name + signature) ..... :	**B. Veenvliet**
Witnessed by (name + signature) ..... :	
Approved by (name + signature) ..... :	**H.L. Schendstok**
Supervised by (name + signature) ... :	
Testing Laboratory ..... :	**DEKRA Certification B.V.**
Address ..... :	Meander 1051, 6825 MJ Arnhem, The Netherlands
Testing procedure ..... :	☒ ENEC/CCA-TL ☐ IECEE-CBTL ☐ TMP ☐ WMT ☐ SMT
Testing location ..... :	**DEKRA Certification B.V.**
Address ..... :	**Meander 1051, 6825 MJ Arnhem, The Netherlands**
Applicant ..... :	**WAGO Kontakttechnik GmbH**
Address ..... :	**Hansastraße 27, 32423 Minden, Germany**
Manufacturer ..... :	**WAGO Kontakttechnik GmbH**
Address ..... :	**Hansastraße 27, 32423 Minden, Germany**
Product ..... :	**tap-off connectors**
Model/Type reference ..... :	**730**
Trademark ..... :	**WAGO**
Ratings ..... :	**10 A, 400 V**
Certification Scheme ..... :	☐ ENEC ☒ CCA ☐ Other: _____
Standard(s) ..... :	**IEC 60998-2-2 (see also IEC 60998-1:2002)**

☒ The text of the a.m. European Standard was approved by CENELEC under the Unique Acceptance Procedure and is identical with the corresponding IEC Publication.

☐ The text of the a.m. European Standard was approved by CENELEC with agreed common modifications and is not identical with the corresponding IEC Publication.

This EN test report consists of the following parts:

☒ **IEC TRF No.:** IEC60998_2_2B Report Reference No ..... : **2174149.50**

☐ **CENELEC-Addendum Form No.** _____ ..... : Report Reference No. or Annex No...:

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 Number ..... :	**2174149.50**
Date of issue ..... :	**2015-02-04**
Total number of pages	**19**

Applicant's name ..... :	**WAGO Kontakttechnik GmbH & Co. KG**
Address ..... :	**Hansastrasse 27, 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

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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..... :	**tap-off connectors**
Trade Mark ..... :	**WAGO**
Manufacturer..... :	**WAGO Kontakttechnik GmbH & Co. KG**
Model/Type reference..... :	**730**
Ratings..... :	**2,5 mm², 500 V, 3-pole and 6-pole, 10 A**

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):
Summary of testing:

Tests performed (name of test and test clause):	Testing location:
EN 60664-1:2007 : clause 5.2 for type 730-116 EN 60998-1:2004 : all types EN 60998-2-2:2004 : type 730-113, except clause 17 type 730-116	DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem, The Netherlands

Summary of compliance with National Differences

List of countries addressed:

☐ The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis or delete the whole sentence if not applicable)

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.

WAGO 730

500 V

2,5 mm²

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.....	☐ 0,5mm² ☐ 0,75mm² ☐ 1mm² ☐ 1,5mm² ☒ 2,5mm² ☐ 4mm² ☐ 6mm² ☐ 10mm² ☐ 16mm² ☐ 25mm² ☐ 35 mm²
Conductor insulation.....	
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.....	10-2014
Date (s) of performance of tests	10-2014

General remarks:

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 & Controls (India) Ltd. C-27, Sector-58, Phase III, 201 301, Noida Gautam Bugh Nagar India Wago Electronic (Tianjin) Co. Ltd. No. 5 Quanhui Road, 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, 1564, Domdidier Switzerland
General product information: see page 17	

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
8	**MARKING**		
8.1	On main part:		
	a) rated connecting capacity (mm²).....:	**2,5 mm²**	**P**
	b) rated insulation voltage (V) .....:	**500 V**	**P**
	c) T marking (°C) (if > 40 °C or < -5 °C).....:		**N/A**
	d) type reference.....:	**730**	**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		**P**
8.101	Type of acceptable conductor "s" "r" or "f"		**N/A**
8.102	Marking indicating the length of insulation to be removed before insertion of the conductor		**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		**N/A**

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		**N/A**
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		
	Universal terminals shall accept rigid(solid or stranded) and flexible unprepared conductors		**P**
	Non-universal terminals shall accept the types of conductors declared by the manufacturer		**N/A**
	Rated connecting capacity (mm²) .....:	**2,5 mm²**	**P**

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Suitable for connecting cross-sectional areas (mm^2) .....:	**0,5 mm^2 - 2,5 mm^2 rigid and flexible**	**P**
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		**P**
	Smallest diameter (mm); largest diameter (mm) ....:	**smallest 0,9 mm largest 2,3 mm**	**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) .....:	**0,9 mm**	**P**
	Connection/disconnection 5 times: largest diameter (mm) .....:	**2,3 mm**	**P**
	After the test, terminal not damaged		**P**
10.104.2	Rated cross-sectional area (mm^2).....:	**2,5 mm^2**	**P**
	Type.....:	**rigid and flexible**	**P**
	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**

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
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) .....:	0,5 mm² - 2,5 mm²	P
	- flexible, cross-sectional area (mm²).....:	0,5 mm² - 2,5 mm²	P
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) .....:	IP__	N/A
	After the test, electric strength test as 13.4, and by inspection	IP__	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		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

IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
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)		P
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage		P
14.3	Impact test (for > 50 g): 10 blows:		N/A
	- height of fall: 7,5 cm		N/A
	- height of fall: 10 cm		N/A
	- 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		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

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

17a	**CLEARANCES AND CREEPAGE DISTANCES** (according IEC 60664-1 clause 5.2)		
	Clearances **(type 730-116)**		
	Rated impulse withstands voltage, Uimp (kV) ..... :	**4 kV**	—
	Pollution degree ..... :	**3**	—
	Case A (mm) ..... :	**3 mm**	—
	Case B (mm) ..... :	**1,2 mm**	—
	Measured (mm) ..... :	**5,07 mm**	P
	Creepage distances:		
	Rated insulation voltage, U i (V) ..... :	**500 V**	—
	Comparative tracking index (V) ..... :	**600 V**	—
	Material group ..... :	**I**	—
	Pollution degree..... :	**3**	—
	Minimum creepage distances (mm) ..... :	**6,3 mm**	—
	Measured creepage distances (mm) ..... :	**7,76 mm**	P

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

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

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

10.105	**TABLE: Clamping securement and damage to the conductor test**					
	Model/type reference.....:	**730-116**				P
No of sample	Conductor cross-sectional area (mm^2)	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1	**0,5**	**solid/flexible**	**0,3**	**260**	**6,5**	P
2	**0,5**	**solid/flexible**	**0,3**	**260**	**6,5**	P
3	**0,5**	**solid/flexible**	**0,3**	**260**	**6,5**	P
4	**2,5**	**solid/flexible**	**0,7**	**280**	**6,5**	P
5	**2,5**	**solid/flexible**	**0,7**	**280**	**6,5**	P
6	**2,5**	**solid/flexible**	**0,7**	**280**	**6,5**	P
Supplementary information:						

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

10.106	TABLE: Pull-out test			
	Model/type reference.....:	730-116, 730-113		P
No of sample	Conductor cross-sectional area (mm²)	Conductor type	Pull force (N)	
1	0,5	solid/flexible	0,2	P
2	0,5	solid/flexible	0,2	P
3	0,5	solid/flexible	0,2	P
4	2,5	solid/flexible	0,5	P
5	2,5	solid/flexible	0,5	P
6	2,5	solid/flexible	0,5	P
Supplementary information:				

13.3	TABLE: Insulation resistance			
	Model/type reference.....:	730-116 (6-pole) 730-113 (3-pole)		P
	Smallest cross-sectional area (mm²) :	0,5		P
	Largest cross-sectional area (mm²) :	2,5		P
Test voltage applied between		Measured (GΩ)	Required (MΩ)	
All clamping units together and the body		1,94: 730-113 16,0: 730-116	500	
Each clamping unit and all others together		4,62: 730-113 8,9: 730-116	500	
Supplementary information:				

13.4	TABLE: Electric strength test			
	Model/type reference.....:	730-116 (6-pole) 730-113 (3-pole)		P
	Rated insulation voltage (V).....:	500 V		P
Test voltage applied between		Test voltage (V)	Flashover / breakdown (Yes/No)	
All clamping units together and the body		3000	No	
Each clamping unit and all others together		3000	No	
Supplementary information:				

14.101	TABLE: Mechanical strength		
	0,1 times the test current (A) .....:	0,6	P
	smallest cross-sectional area (mm^2) 10.103 .....:	0,5	P

IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
	force (N) (table 104) .....:	**0,09**			**P**
	Distance (mm) (table 104) .....:	**100**			**P**
	-screwless terminal number	1	2	3	-
	- voltage drop measured (mV) (1st deflection) .....:	**0,66**	**0,65**	**0,66**	**P**
	- voltage drop measured (mV) (2nd deflection) .....:	**0,68**	**0,64**	**0,66**	**P**
	- voltage drop measured (mV) (3rd deflection) .....:	**0,69**	**0,65**	**0,69**	**P**
	- voltage drop measured (mV) (4th deflection) .....:	**0,69**	**0,65**	**0,71**	**P**
	- voltage drop measured (mV) (5th deflection) .....:	**0,67**	**0,63**	**0,73**	**P**
	- voltage drop measured (mV) (6th deflection) .....:	**0,66**	**0,62**	**0,79**	**P**
	- voltage drop measured (mV) (7th deflection) .....:	**0,66**	**0,62**	**0,83**	**P**
	- voltage drop measured (mV) (8th deflection) .....:	**0,66**	**0,62**	**0,80**	**P**
	- voltage drop measured (mV) (9th deflection) .....:	**0,67**	**0,62**	**0,80**	**P**
	- voltage drop measured (mV) (10th deflection) .....:	**0,66**	**0,63**	**0,79**	**P**
	- voltage drop measured (mV) (11th deflection) .....:	**0,65**	**0,62**	**0,78**	**P**
	- voltage drop measured (mV) (12th deflection) .....:	**0,65**	**0,62**	**0,77**	**P**
	- requirement: ≤ 2,5 mV				
	0,1 times the test current (A) .....:	**2,4**			**P**
	Largest cross-sectional area (mm^2) 10.103 .....:	**2,5**			**P**
	force (N) (table 104) .....:	**1,0**			**P**
	Distance (mm) (table 104) .....:	**100**			**P**
	- screwless terminal number .....:	1	2	3	—
	- voltage drop measured (mV) (1st deflection) .....:	**0,81**	**0,79**	**0,82**	**P**
	- voltage drop measured (mV) (2nd deflection) .....:	**0,86**	**0,79**	**0,81**	**P**
	- voltage drop measured (mV) (3rd deflection) .....:	**0,90**	**0,79**	**0,79**	**P**
	- voltage drop measured (mV) (4th deflection) .....:	**0,85**	**0,78**	**0,79**	**P**
	- voltage drop measured (mV) (5th deflection) .....:	**0,88**	**0,78**	**0,82**	**P**
	- voltage drop measured (mV) (6th deflection) .....:	**0,89**	**0,78**	**0,82**	**P**
	- voltage drop measured (mV) (7th deflection) .....:	**0,88**	**0,80**	**0,82**	**P**
	- voltage drop measured (mV) (8th deflection) .....:	**0,84**	**0,78**	**0,82**	**P**
	- voltage drop measured (mV) (9th deflection) .....:	**1,0**	**0,80**	**0,81**	**P**
	- voltage drop measured (mV) (10th deflection) .....:	**0,93**	**0,79**	**0,80**	**P**
	- voltage drop measured (mV) (11th deflection) .....:	**0,90**	**0,79**	**0,82**	**P**
	- voltage drop measured (mV) (12th deflection) .....:	**0,94**	**0,79**	**0,80**	**P**
	- requirement: ≤ 2,5 mV				

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

15	**TABLE: Temperature rise**		
	Model/type reference..... :	**730-116 (6-pole)**	**P**
	Terminal ..... :	☐ **single** ☒ **multiway**	—
	T marking (°C) ..... :	☐ **Yes** **(..°C):**	—
	Largest cross-sectional area (mm²)..... :	**2,5**	**P**
	Conductors ..... :	**1 m**	**P**
	Rated connecting capacity (mm²)..... :	**0,5 - 2,5**	**P**
	Test current (A)..... :	**10**	**P**

Thermocouple Locations	max. temperature measured, (°C)	max. temperature limit, (°C)
On conductor in the terminal T1	**20,8 K**	**45 K**
On conductor in the terminal T2	**19,5 K**	**45 K**
On conductor in the terminal T3	**21,5 K**	**45 K**
Supplementary information:		

15.101	**TABLE: Temperature-cycling test**				
	Model/type reference ..... :	**730-116 (6-pole)**			**P**
	Smallest cross-sectional area (mm^2) ..... :	**0,5**			**P**
	Test current (Table 2) (A) ..... :	**6**			**P**
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)	**3,27**	**3,48**	**6,51**	**P**
Stranded conductors	(after 24 cycles)	**-**	**-**	**-**	**N/A**
Flexible conductors	(after 24 cycles)	**3,45**	**6,17**	**8,74**	**P**
Solid conductors	(1,5 times 24th cycle value)	**4,9**	**5,22**	**9,77**	**P**
Stranded conductors	(1,5 times 24th cycle value)	**-**	**-**	**-**	**N/A**
Flexible conductors	(1,5 times 24th cycle value)	**5,18**	**9,26**	**13,11**	**P**
Solid conductors	(after 192 cycles)	**3,32**	**3,55**	**6,09**	**P**
Stranded conductors	(after 192 cycles)	**-**	**-**	**-**	**N/A**
Flexible conductors	(after 192 cycles)	**3,55**	**6,85**	**9,66**	**P**

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

	Largest cross-sectional area (mm^2) .....:	**2,5**			**P**
	Test current (Table 2) (A) .....:	**24**			**P**
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors	(after 24 cycles)	**7,97**	**15,03**	**10,1**	**P**
Stranded conductors	(after 24 cycles)				**N/A**
Flexible conductors	(after 24 cycles)	**6,3**	**12,56**	**20,17**	**P**
Solid conductors	(1,5 times 24th cycle value)	**11,96**	**22,55**	**15,15**	**P**
Stranded conductors	(1,5 times 24th cycle value)				**N/A**
Flexible conductors	(1,5 times 24th cycle value)	**9,45**	**18,84**	**30,25**	**P**
Solid conductors	(after 192 cycles)	**8,07**	**17,58**	**9,75**	**P**
Stranded conductors	(after 192 cycles)				**N/A**
Flexible conductors	(after 192 cycles)	**6,48**	**13,04**	**21,96**	**P**
Supplementary information:					

16.2	**TABLE: Heating cabinet test**				
	Test temperature (°C) .....:		☒ 85°C ☐ T + 45 =		
Model/type reference		Sample 1	Sample 2	Sample 3	
730-113		**P**	**P**	**P**	
730-116		**P**	**P**	**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 730-113 **Housing 730-116**	**PA 6.6** **PA 6.6**	**0,94** **0,83**	**P**
Supplementary information:			

16.3B	**TABLE: Ball pressure test of insulating materials**	**N/A**

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

17	TABLE: Clearances and creepage distances				
	Rated insulation voltage (V) .....:	500 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 type 730-113		**6**	**8,38**	**> 8,38**	**N/A**
Supplementary information:					

18	TABLE: Glow-wire test		
Part under test	Material designation / manufacturer	Test temperature (°C)	Time of extinguish of flames and glowing, if any
Housing 730-113	**PA 6.6**	**850**	**flame extinguished immediately after removal.**
Housing 730-116	**PA 6.6**	**850**	
Supplementary information:			

19	TABLE: Tracking		
Part under test	Material designation / manufacturer	Test voltage (V)	Remarks
Housing 730-113	**PA 6.6**	**175 V**	
Housing 730-116	**PA 6.6**	**175 V**	
Supplementary information:			

Remarks

Product data

product	:	tap-off connectors
trade name(s)	:	WAGO
type(s)	:	730-103, 730-106, 730-113, 730-116, 730-123, 730-126
rated voltage	:	500 V
rated current	:	10 A
Insulation material	:	PA 6.6 V0
stripping length	:	8-9 mm

Additional information

Markings: trademark, type designation are embossed on the thermoplastic material.

Product data - type 730-103

rated cross section	:	1,5 mm²
rated connection capacity	:	0,75 mm² - 1,5 mm²
type of connectable cable	:	flexible
description	:	3-pole female socket, insulation-piercing clamping unit

Product data - type 730-106

rated cross section	:	1,5 mm²
rated connection capacity	:	0,75 mm² - 1,5 mm²
type of connectable cable	:	flexible
description	:	6-pole female socket, insulation-piercing clamping unit

Product data - type 730-113

rated cross section	:	2,5 mm²
rated connection capacity	:	0,5 mm² - 2,5 mm²
type of connectable cable	:	flexible and rigid
description	:	3-pole plug, screwless clamping unit

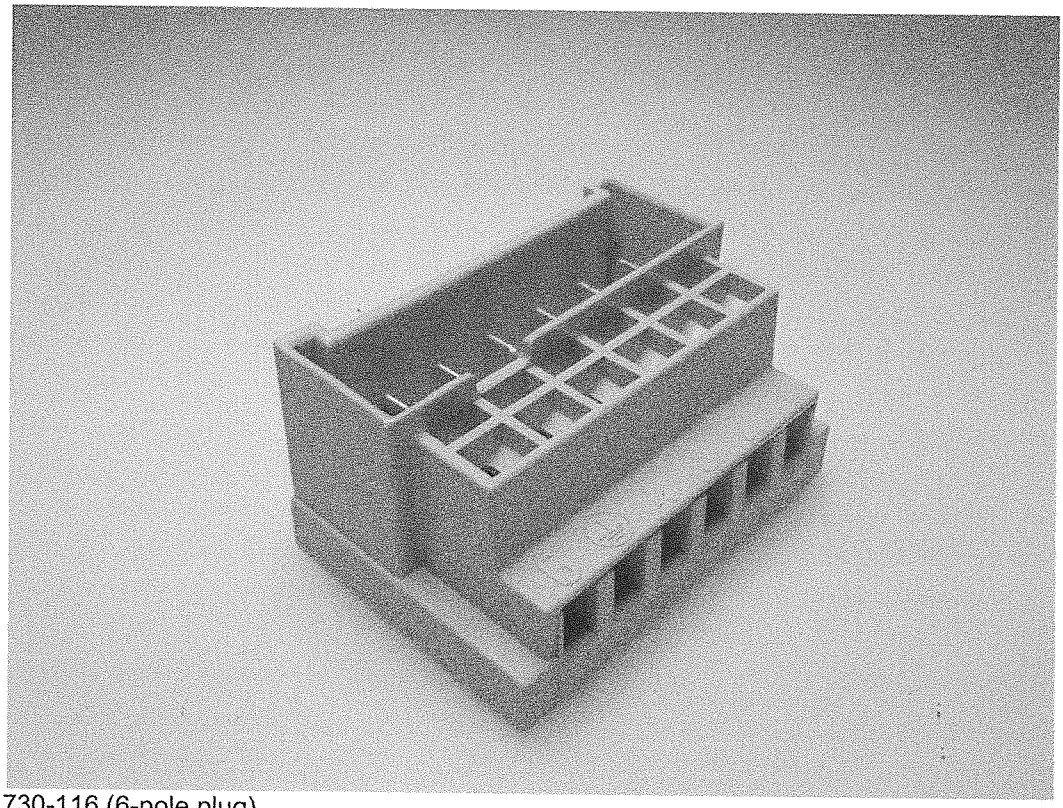
Product data - type 730-116

rated cross section	:	2,5 mm²
rated connection capacity	:	0,5 mm² - 2,5 mm²
type of connectable cable	:	flexible and rigid
description	:	6-pole plug, screwless clamping unit

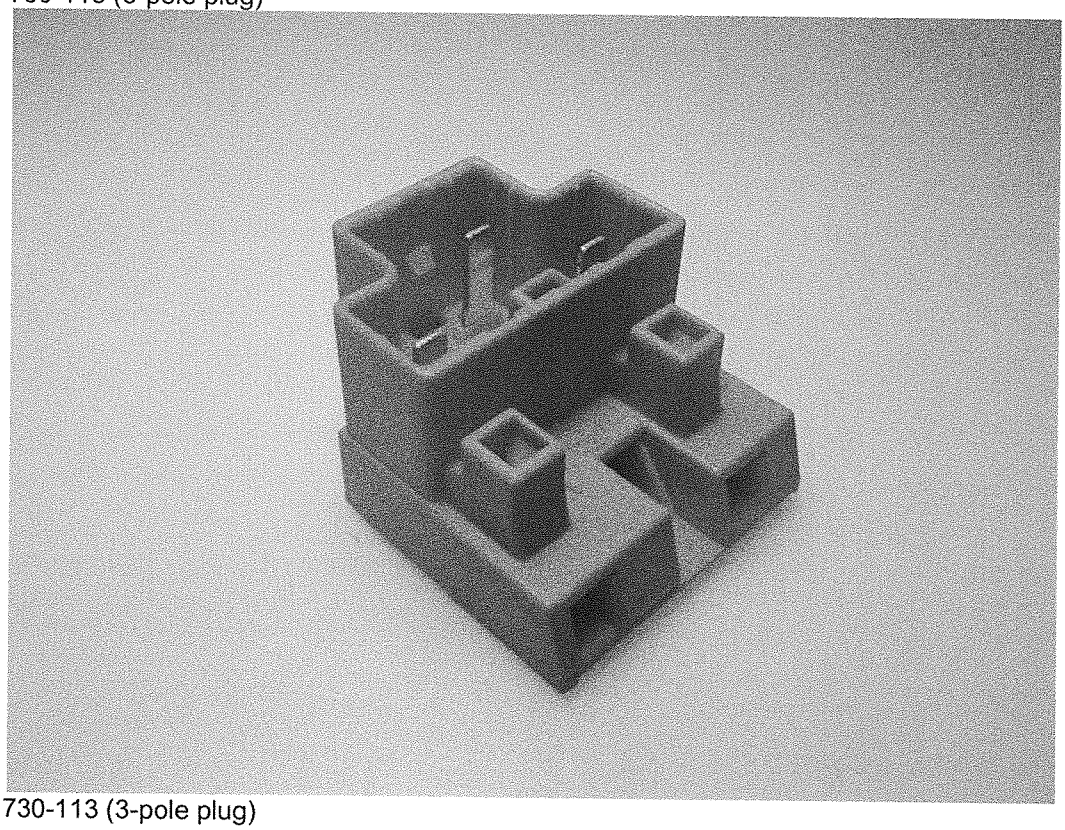
Product data - type 730-123

rated cross section	:	1,5 mm²
rated connection capacity	:	0,75 mm² - 1,5 mm²
type of connectable cable	:	flexible
description	:	3-pole female socket with fixing flanges, insulation-piercing clamping unit

Remarks



730-116 (6-pole plug)



730-113 (3-pole plug)

DEKRA

TEST REPORT

EN 60998-2-3:2004 and IEC 60998-2-3:2002

Connecting devices for low-voltage circuits for household and similar purposes Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

Report Reference No.	2174149.51
Tested by (name + signature)	B. Veenvliet
Witnessed by (name+ signature)	
Supervised by (name+ signature)	
Approved by (name+ signature)	H.L. Schendstok
Date of issue	2015-02-04
Number of pages	18

CB Testing Laboratory	
Address	
Testing location/ procedure	CBTL ☒ SMT ☐ WMT ☐ TMP ☐
Testing location/ address	

Applicant's name	**WAGO Kontakttechnik GmbH & Co. KG**
Address	**Hansastrasse 27, 32423 Minden, Germany**

Test specification:

Standard	☒ IEC 60 998-2-3:2002 (see also IEC 60 998-1:2002)
	☒ EN 60 998-2-3:2004 (see also EN 60 998-1:2004)
Test procedure	☒ CCA
	☐ CB
Non-standard test method	N/A

Test Report Form No.	IECEN60998_2_3A
TRF originator.	IMQ
Master TRF	2005-03

Type item description	**tap-off connectors**
Trade Mark	**WAGO**
Manufacturer	**WAGO Kontakttechnik GmbH & Co. KG**
Model/type reference	**730**
Ratings	**1,5 mm², 500 V, 10 A, 6 kV, 3-pole and 6-pole**

Copy of marking plate:

WAGO 730

500 V

0,75...1,5 ,,f

Summary of testing:

complete examination

Test item particulars:

Number of terminals	☐ single	☒ multiway	
Function	☐ junction	☒ tapping	☐ junction and tapping
Protection against electric shock	☐ with	☐ without	
Means of fixing	☒ with	☒ without	
Rated temperature	☒ without T marking	☐ with T marking (°C):	
IP number	IP -		
Reusability and removability	☒ reusable	☐ non-reusable	☐ non-removable
Method of making the connection	☒ general purpose tool	☐ special tool	☐ by hand
Conductor type	☐ rigid solid	☐ rigid (solid or stranded)	
	☒ flexible	☐ rigid (solid and/or stranded) and flexible	
Conductor insulation	☐ conductors according to IEC 60227		
	☐ conductors according to IEC 60245		
	☐ special conductors:		
Number of cores in the conductor to be connected	☐ one core conductors	☒ multicore cables or cords	

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	10-2014
Date (s) of performance of tests	10-2014

General remarks:

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.

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 or ☐ point is used as the decimal separator.

General product information:

see page 17

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
8	**MARKING**		
8.1	On main part:		
	a) rated connecting capacity (mm²) .....:	**1,5 mm²**	**P**
	b) rated insulation voltage (V) .....:	**500 V**	**P**
	c) T marking (°C) (if > 40 °C) .....:		**N/A**
	d) type reference .....:	**730**	**P**
	e) manufacturer's or responsible vendor's name or trade mark or identification mark .....:		**P**
	f) IP (if > IP20) .....:		**N/A**
	Very small devices: only d) and e) need to be indicated on the device (all marks specified are visible on the smallest package unit)		**P**
8.2	Multiway terminal devices: required marking is complete on at least two adjacent devices		**P**
8.3	Correct symbols		**P**
8.4	Marking: durable and easily legible; 15 s water; 15 s petroleum spirit	**Marking is embossed**	**N/A**
8.101	Marking indicated on the smallest package unit:		
	IPCD non-reusable		**P**
	IPCD non-removable		**N/A**
	Connection and disconnection procedure		**P**
	Combinations of cross-sectional areas and types of conductors		**P**
8.102	IPCDs classified according to 7.103:		
	Type of acceptable conductor “s” or “sol”, "r", "f".....:	**"f"**	**P**
	This marking appear on the end product or on the smallest package unit or in technical information and/or catalogues	**end product**	**P**
9	**PROTECTION AGAINST ELECTRIC SHOCK**		
	Live parts of connecting devices with protection against electric shock are not accessible		**P**
10	**CONNECTION OF CONDUCTORS**		
	Connecting devices allow correct connection of conductors		**P**

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
10.101	IPCD accept one or more unprepared conductors, as declared by the manufacturer		**P**
10.102	Relationship between rated connecting capacity of clamping units and connectable conductors (Table 101):		
	Rated connecting capacity (mm^2).....:	**1,5 mm^2**	—
	Solid connectable conductor (mm^2).....:		—
	Stranded connectable conductor (mm^2).....:		—
	Flexible connectable conductor (mm^2).....:		—
10.103	Disconnection of a conductor from a reusable or non-reusable IPCD requires an operation other than a pull on the conductor only		**P**
	Deliberate action to disconnect the conductor by hand or with a suitable tool is necessary to take		**P**
10.104	IPCD is adequately locked against unintended loosening		**P**
10.105	Test for IPCD where screws for wire connection are used	See appended table 10.105	**N/A**
	During the test reusable IPCD is not damaged		**N/A**
10.106	Test for IPCD designed for use with single-core conductors (apparatus shown in Figure 101)	See appended table 10.106	**P**
	During the test: conductor neither slip out nor break near the clamping unit		**P**
	During the test reusable and non-reusable IPCD did not damage the conductor		**P**
10.107	Pull-out test:		
10.107.1	IPCDs designed for single-core conductors	See appended table 10.107.1	**P**
	During the test: conductor did not slip out of the IPCD		**P**
10.107.2	IPCDs designed for multi-core conductors	See appended table 10.107.2	**N/A**
	During the test: cable or cord did not slip out of the IPCD		**N/A**

11	**CONSTRUCTION**		
11.1	Constructional requirements given in Part 2-3		**P**
11.2	Clamping units clamp the conductors reliably and between metal surfaces, with exception of specific cases subject to requirements of the relevant Part 2-3		**P**
11.3	Subclause 11.3 of IEC/EN 60998-1 not applicable		—

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
11.4	Insulating lining, barriers and the like have adequate mechanical strength and are secured in a reliable manner		**P**
11.5	Current-carrying parts are of metal having adequate characteristics for their intended use; type of metal .....:		**P**
	Current-carrying parts subjected to mechanical wear are not made of steel provided with an electroplated coating		**N/A**
	Metals showing a large difference of electrochemical potential are not used under moist conditions		**N/A**
11.6	Terminals accept the connection of conductors as specified by the manufacturer	See appended table 11.6	**P**
11.7	Fixing means of bases do not serve any other purpose		**P**
11.101	IPCDs where the contact pressure is transmitted via insulating material other than ceramic are stable under normal conditions of use		**N/A**
	IPCDs transmitting contact pressure via metal parts: compliance checked by test of 15.101		**P**
	IPCDs using material other than metal for the transmission of contact-pressure: compliance checked by test of 15.102		**N/A**
11.102	Screws for making contact-pressure do not serve to fix any other component, although they may hold the IPCD in place or prevent it from turning		**N/A**
	Screws are not of soft metal or liable to creep		**N/A**
11.103	Non-reusable IPCD is designed and constructed that it is automatically destroyed when removed from the conductor and the damage is obvious		**P**
11.104	IPCD makes a reliable mechanical connection		**p**
12	**RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID FOREIGN OBJECTS AND TO HARMFUL INGRESS OF WATER**		
12.1	Connecting devices with insulating material other than ceramic and thermosetting material are resistant to ageing (168 h)		**P**
	Ageing temperature (°C) .....:	☒ 70 ☐ T + 30 =	—
	Samples show no cracks visible nor the material have become sticky or greasy; no damage		**P**

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
12.2	Connecting devices protected against humid conditions (umidity treatment with a relative umidity between 91 % and 95 %)		**P**
	Test duration (h) .....:	☒ 48 ☐ 168	—
	After the test samples show no damage		**P**
12.3	IP test (IEC 60529).....:		**N/A**
	Electric strength test as specified in 13.4		**N/A**
	Water has not entered to any appreciable extent and has not reached live parts		**N/A**
13	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		
13.1	Insulated connecting devices provided with adequate insulation resistance and electric strength		**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**		
14.1	Connecting devices have adequate mechanical strength		**P**
14.2	Tumbling barrel according to IEC 60068-2-32 for connecting devices having a mass < 50 g (50 falls)		**P**
	Test torque for screws, if any (Nm).....:		—
	After the test samples show no damage		**P**
	Samples show no damage		**P**
14.3	Pendular hammer according to IEC 60068-2-75 for connecting devices having a mass ≥ 50 g (10 blows)		**N/A**
	Test torque for fixing screws of bases and covers:		—
	- height of fall: 7,5 cm		**N/A**
	- height of fall: 10 cm		**N/A**
	- height of fall: 20 cm		**N/A**
	- height of fall: 25 cm		**N/A**
	After the test: samples show no damage and live parts have not become accessible		**N/A**

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
15	**TEMPERATURE RISE AND ELECTRICAL PERFORMANCES**		
15.1 to 15.4	Temperature rise test	See appended table 15	**P**
15.101	Test for IPCDs transmitting contact pressure via metal parts, which can accept:		**P**
	- solid types of conductors only (6 samples)		**N/A**
	- rigid types of conductors only (6 samples)		**N/A**
	- flexible conductors only (6 samples)		**P**
	- all types of conductors (12 samples)		**N/A**
	After the test: inspection show no changes impairing further use		**P**
15.101.1	Test A: 192 temperature cycles test, each cycle with a duration of 1 h, with the test current as defined in Table 2 of Part I	See appended table 15.101.1	**P**
	Cabinet temperature (°C).....:	☒ 40 ☐ T-marking:	—
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24th cycle value		**P**
15.101.2	Test B (alternative): 192 temperature cycles test, each cycle with a duration of 1 h, with a current to obtain an adequate temperature environment	See appended table 15.101.2	**N/A**
	Temperature as close as possible to the clamping unit and the conductor interface (°C).....:	☐ 40 ☐ >40:	—
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24th cycle value		**N/A**
15.102	Tests for IPCDs transmitting contact pressure via insulating parts, which can accept:		
	- solid types of conductors only (6 samples)		**N/A**
	- rigid types of conductors only (6 samples)		**N/A**
	- flexible conductors only (6 samples)		**N/A**
	- all types of conductors (12 samples)		**N/A**
	After the test: inspection show no changes impairing further use		**N/A**
15.102.1	Test A: 384 temperature cycles test, each cycle with a duration of 1 h, with the test current as defined in Table 2 of Part I	See appended table 15.102 (Test A)	**N/A**
	Cabinet temperature (°C).....:	☐ 40 ☐ T-marking:	—
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 48th cycle value		**N/A**
	Test B (alternative): 384 temperature cycles test, each cycle with a duration of 1 h, with a current to obtain an adequate temperature environment	See appended table 15.102 (Test B)	**N/A**

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	Temperature as close as possible to the clamping unit and the conductor interface (°C).....:	☐ 40 ☐ >40:	—
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 48th cycle value		N/A
15.102.2	Short-time withstand current test	See appended table 15.102.2	P
	Voltage drop after short-time withstand current test did not exceed 1,5 times the value measured before the test		P
	After the test: inspection show no changes impairing further use		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		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	P
	Impression diameter not exceed 2 mm		P
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
19	**RESISTANCE OF INSULATING MATERIAL TO TRACKING**		
	Tracking test (IEC 60112): PTI 175 V, 50 drops, solution A	See appended table 19	P

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
20	**EMC REQUIREMENTS**		
20.1	Immunity		**N/A**
20.2	Emission		**N/A**

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

10.105	**TABLE: Test on screws for wire connection**	**N/A**

10.106	**TABLE: Clamping securement and damage to the conductor test**						
	Model/type reference.....:	**730-103, 730-106**					—
N. of sample	Conductor cross-sectional area (mm²)	Conductor type	Mass for conductor (kg)	Height H (mm)	Applied torque (Nm)	Diameter of bushing hole (mm)	
1	**1,5**	**flexible**	**0,4**	**260**	**-**	**6,5**	**P**
2	**1,5**	**flexible**	**0,4**	**260**	**-**	**6,5**	**P**
3	**1,5**	**flexible**	**0,4**	**260**	**-**	**6,5**	**P**
4	**0,75**	**flexible**	**0,4**	**260**	**-**	**6,5**	**P**
5	**0,75**	**flexible**	**0,4**	**260**	**-**	**6,5**	**P**
6	**0,75**	**flexible**	**0,4**	**260**	**-**	**6,5**	**P**
Supplementary information:							

10.107.1	**TABLE: Pull-out test on IPCDs designed for single-core conductors**			
	Model/type reference.....:	**730-103, 730-106**		—
N. of sample	Conductor cross-sectional area (mm²)	Conductor type	Pull force (N)	
1	**1,5**	**flexible**	**40**	**P**
2	**1,5**	**flexible**	**40**	**P**
3	**1,5**	**flexible**	**40**	**P**
4	**0,75**	**flexible**	**30**	**P**
5	**0,75**	**flexible**	**30**	**P**
6	**0,75**	**flexible**	**30**	**P**
Supplementary information:				

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
10.107.2	**TABLE: pull-out test on IPCDs designed for multi-core conductors**		**N/A**

11.6	**TABLE: Connectable conductors specified by the manufacturer**		
	Model/type reference.....:	**730-103, 730-106**	—
	Rated connecting capacity (mm²) ..... :	**0,75 mm² - 1,5 mm²**	—

Conductor cross-sectional area (mm²)	Conductor type	Number of conductors
1,5	**flexible**	**1**
0,75	**flexible**	**1**

Supplementary information:

13.3	**TABLE: Insulation resistance**		
	Model/type reference.....:	**730-103, 730-106**	—
	Smallest cross-sectional area (mm²)..... :	**0,75**	—
	Largest cross-sectional area (mm²) ..... :	**1,5**	—

Test voltage applied between:	Measured (GΩ)	Required (MΩ)
all clamping units and body	**730-103: 1,94** **730-106: 16,0**	**500**
each clamping unit, other clamping units and body	**730-103: 4,62** **730-106: 8,90**	**500**

Supplementary information:

13.4	**TABLE: Electric strength test**		
	Model/type reference.....:	**730-103, 730-106**	—
	Rated insulation voltage (V).....:	**500 V**	—

Test voltage applied between:	Test voltage (V)	Flashover / breakdown (Yes/No)
all clamping units and body	**3000**	**No**
each clamping unit, other clamping units and body	**3000**	**No**

Supplementary information:

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

15	**TABLE: Temperature rise test**				
	Model/type reference ..... :	**730-106 (6-pole)**			—
	Connection according to Figure ..... :	☐ 1 ☒ 2			—
	Conductor length ..... :	**1 m**			—
	Measurement made at temperature (°C) ..... :	**22**			—
	Largest cross-sectional area (mm²) ..... :	**1,5**			—
	Test current (Table 2) (A) ..... :	**10**			—
Temperature rise dT of part/at:		Measured dT (K)			Allowed dT (K)
		Sample 1	Sample 2	Sample 3	
terminals of the socket and plug connected		**20,8**	**19,5**	**21,5**	**45**
Supplementary information:					

15	**TABLE: Temperature rise test**				
	Model/type reference ..... :	**730-103 (3-pole)**			—
	Connection according to Figure ..... :	☐ 1 ☒ 2			—
	Conductor length ..... :	**1 m**			—
	Measurement made at temperature (°C) ..... :	**22**			—
	Largest cross-sectional area (mm²) ..... :	**1,5**			—
	Test current (Table 2) (A) ..... :	**10**			—
Temperature rise dT of part/at:		Measured dT (K)			Allowed dT (K)
		Sample 1	Sample 2	Sample 3	
terminals of the socket and plug connected		**16,7**	**16,4**	**19,1**	**45**
Supplementary information:					

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

15.101.1	**TABLE: Temperature-cycling test (Test A)**				
	Model/type reference ..... :	**730-106 (6-pole)**			—
	Test torque for screws, if any (10.105) (Nm) ..... :	-			—
	Smallest cross-sectional area (mm^2) ..... :	**0,75**			—
	Test current (Table 2) (A) ..... :	**9 A**			—
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)	**20,87**	**16,32**	**17,79**	—
Solid conductors	(1,5 times 24th cycle value)	-	-	-	—
Stranded conductors	(1,5 times 24th cycle value)	-	-	-	—
Flexible conductors	(1,5 times 24th cycle value)	**31,3**	**24,48**	**26,96**	—
Solid conductors	(after 192 cycles)	-	-	-	**N/A**
Stranded conductors	(after 192 cycles)	-	-	-	**N/A**
Flexible conductors	(after 192 cycles)	**17,96**	**16,11**	**15,56**	**P**
	Largest cross-sectional area (mm^2) ..... :	**1,5**			—
	Test current (Table 2) (A) ..... :	**17,5**			—
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 4	Sample 5	Sample 6	
Solid conductors	(after 24 cycles)	-	-	-	—
Stranded conductors	(after 24 cycles)	-	-	-	—
Flexible conductors	(after 24 cycles)	**18,68**	**21,67**	**19,22**	—
Solid conductors	(1,5 times 24th cycle value)	-	-	-	—
Stranded conductors	(1,5 times 24th cycle value)	-	-	-	—
Flexible conductors	(1,5 times 24th cycle value)	**28,02**	**32,5**	**28,83**	—
Solid conductors	(after 192 cycles)	-	-	-	**N/A**
Stranded conductors	(after 192 cycles)	-	-	-	**N/A**
Flexible conductors	(after 192 cycles)	**20,44**	**22,46**	**13,83**	**P**
Supplementary information:					

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

15.101.2	**TABLE: Temperature-cycling test (Test B)**	**N/A**

15.102.1	**TABLE: Temperature-cycling test (Test A)**	**N/A**

15.102.1	**TABLE: Temperature-cycling test (Test B)**	**N/A**

15.102.2	**TABLE: Short-time withstand current test**				
	Model/type reference.....:	**730-106 (6-pole)**			—
	Maximum cross-sectional area (mm^2).....:	**1,5**			—
	Conductor type .....:	**flexible**			—
	Test torque for screws, if any (10.105) (Nm) .....:	**-**			—
	Test current (120 A/mm^2 of the cross-sectional area of the connected conductor) (A).....:	**180**			—
	Duration of the test current (s) .....:	**1**			—
	Test current for measuring the voltage drop before and after the test (1/10 of Table 2) (A).....:	**1,75**			—
Measured voltage drop:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Before the test		**1,9**	**2,3**	**2,1**	—
1,5 times the value before the test		**2,85**	**3,45**	**3,15**	—
After the test		**2,0**	**2,2**	**2,32**	
Supplementary information:					

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

EN 60998-2-3:2004 and IEC 60998-2-3:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

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	**PA 6.6**	**0,94**
supplementary information:		

16.3B	**TABLE: Ball pressure test of insulating materials**	**N/A**

17	**TABLE: Clearances and creepage distances**				
	Rated insulation voltage (V) .....:	**500**			—
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)	
socket 6-pole	6	**6,8**	**> 6,8**	-	
socket 3 -pole	6	**6,22**	**> 6,22**	-	
Supplementary information:					

18	**TABLE: Glow-wire test**		
Part under test	Material designation / manufacturer	Test temperature (°C)	Time of extinguish of flames and glowing, if any
Housing 730-103	**PA 6.6**	**850**	**no flame or glowing**
Housing 730-106	**PA 6.6**	**850**	**no flame or glowing**
Supplementary information:			

19	**TABLE: Resistance to tracking**		
Part under test	Material designation / manufacturer	Test voltage (V)	Remarks
Housing 730-103	**PA 6.6**	**175 V**	
Housing 730-106	**PA 6.6**	**175 V**	
Supplementary information:			

Product data

product	:	tap-off connectors
trade name(s)	:	WAGO
type(s)	:	730-103, 730-106, 730-113, 730-116, 730-123, 730-126
rated voltage	:	500 V
rated current	:	10 A
Insulation material	:	PA 6.6 V0
stripping length	:	8-9 mm

Additional information

Markings: trademark, type designation are embossed on the thermoplastic material.

Product data - type 730-103

rated cross section	:	1,5 mm²
rated connection capacity	:	0,75 mm² - 1,5 mm²
type of connectable cable	:	flexible
discription	:	3-pole female socket, insulation-piercing clamping unit

Product data - type 730-106

rated cross section	:	1,5 mm²
rated connection capacity	:	0,75 mm² - 1,5 mm²
type of connectable cable	:	flexible
discription	:	6-pole female socket, insulation-piercing clamping unit

Product data - type 730-113

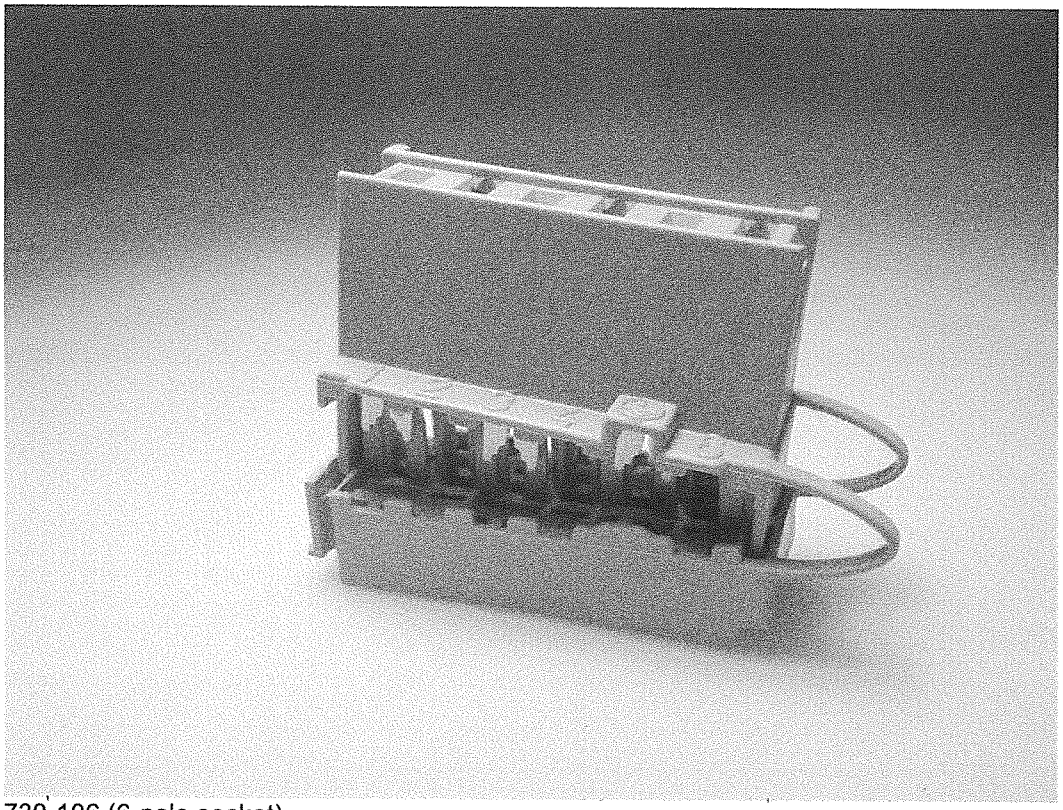
rated cross section	:	2,5 mm²
rated connection capacity	:	0,5 mm² - 2,5 mm²
type of connectable cable	:	flexible and rigid
discription	:	3-pole plug, screwless clamping unit

Product data - type 730-116

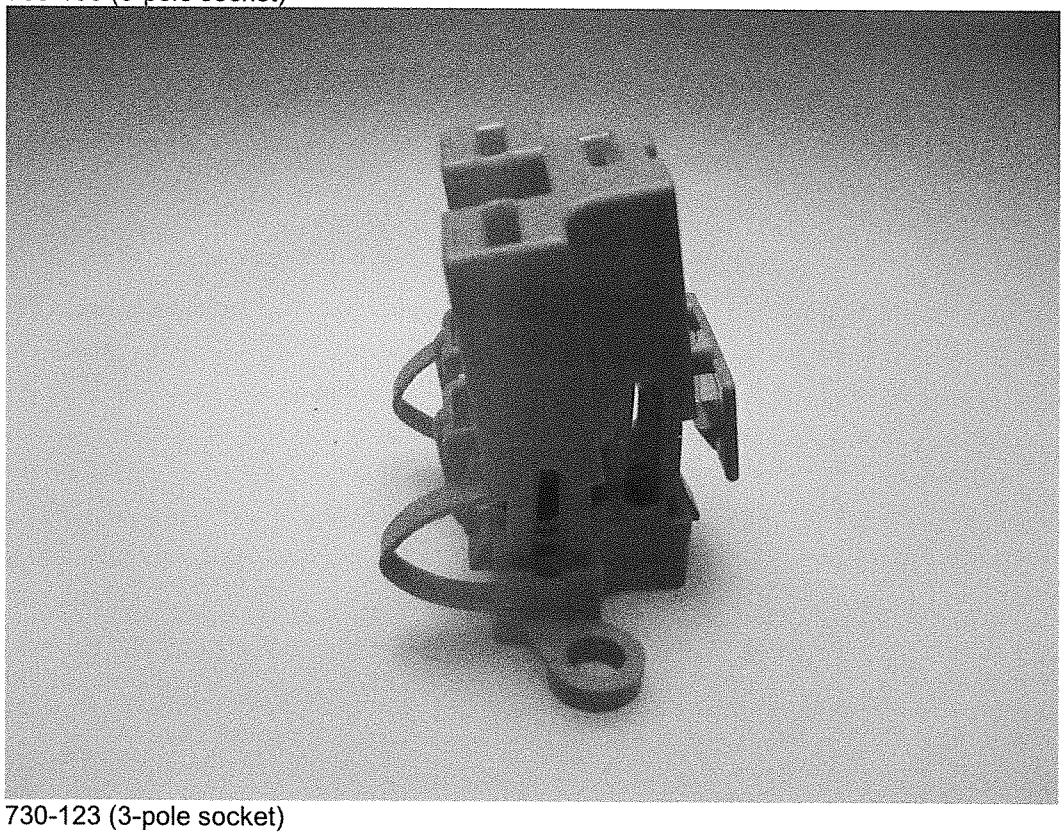
rated cross section	:	2,5 mm²
rated connection capacity	:	0,5 mm² - 2,5 mm²
type of connectable cable	:	flexible and rigid
discription	:	6-pole plug, screwless clamping unit

Product data - type 730-123

rated cross section	:	1,5 mm²
rated connection capacity	:	0,75 mm² - 1,5 mm²
type of connectable cable	:	flexible
discription	:	3-pole female socket with fixing flanges, insulation-piercing clamping unit



730-106 (6-pole socket)



730-123 (3-pole socket)