SKROSS ADAPT TO THE WORLD

Certifications

Country Adapter

Europe to Australia / China

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WorldConnect AG
Werkstrasse 12a
CH 9444 Diepoldsau

Declaration of conformity

We,

WorldConnet AG
Werkstrasse 12a
9444 Diepoldsau
Switzerland

declare on our own sole responsibility, to whom it may concern, that the product

Type	Country Plug "Australia/New Zealand"
Manufacturer	Noventa (Thailand) Co., Ltd. 304 Industrial Park, 447 Moo 7 Tha Toom Sub-District Sri Maha Phote Prachinburi 25140, Thailand

is in conformity with the following laws and standards or other name normative documents:

- EU plug checked for dimensions according to the relevant standard EN50075
- AUS/NZ plug checked for dimensions according to the relevant standard AS3112

For the safety evaluation of the compliance to the above directive, the following standard(s) are applied in:

- IEC 60884-1: 2002 (3rd edition)

Date:
2011-12-28

Hansjörg Wittwer
Product Manager

REACH and RoHS2 Self Declaration

Hereby we declare on our own sole responsibility, to whom it may concern, that the products are in conformity with the normative standards:

Country Plug Skross: ***UK/US/AUS-NZ/SWISS/ITALIE/SOUTH AFRICA/INDIA/ISRAEL/EUROPE/DENMARK/HDK***

- The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- We have understood the purpose of the REACH directive and our obligations toward it. We understand that the SVHC candidate list will be regularly updated when more substances are identified as SVHC (substances of very high concern), and that we on regularly basis (at least twice a year) check the candidate list for new substances (http://www.echa.europa.eu/chem_data/candidate_list_table_en.asp). If the composition of SVHC in our products change, or information obligation arise as a result of extension of the candidate list, we will notify our customers without request.
- We declare that the information's in this attached "REACH and RoHS2 Appendix" are correct and fact based through reliable tests that are carried out by our self or our sub suppliers.

Name and e-mail of REACH and RoHS contact in our company	Navin Kaul navin.kaul@worldconnect.ch

Company name	WorldConnect AG	
Address	Werkstrasse 12a, 9444 Diepoldsau, CH	
Date	20.12.2012	
Function in the company (part of management team)	Product Management	Head of Product Management
Name	Navin Kaul	Hansjörg Wittwer
Legally binding signature		
Company stamp	WorldConnect AG Werkstrasse 12a 9444 Diepoldsau Switzerland	

Test Report issued under the responsibility of:

electrosuisse

TEST REPORT
IEC 60884-2-5

Plugs and socket-outlets for household and similar purposes
PART 2: PARTICULAR REQUIREMENTS FOR ADAPTORS

Report reference No. ..... :	10-IK-0233.09
Date of issue ..... :	2011-10-10
Total number of pages ..... :	19
CB Testing Laboratory ..... :	Electrosuisse
Address ..... :	Luppmenstrasse 1, CH-8320 Fehraltorf Switzerland
	STS 001
Applicant's name ..... :	Noventa AG
Address ..... :	Sonnenstrasse 1 CH-9444 Diepoldsau
Test specification:	
Standard ..... :	IEC 60884-2-5:1995 (First Edition) see also IEC 60884-1:1994 (Second Edition) + A1:1994 + A2:1995
Test procedure ..... :	CB / CCA
Non-standard test method..... :	N/A
Test Report Form No ..... :	IEC60884_2_5A
Test Report Form(s) Originator ..... :	IMQ
Master TRF..... :	Dated: 2004-09

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 ..... :	Single Travel Model: AU
Trade Mark ..... :	Skross
Manufacturer ..... :	Noventa AG; Sonnenstrasse 1; CH-9444 Diepoldsau
Model/Type reference ..... :	AU
Ratings ..... :	10 A / 250 V~

☒ **CB Testing Laboratory**:	Electrosuisse
Testing location/ address ..... :	Luppmenstrasse 1, CH-8320 Fehraltorf Switzerland
☐ **Associated CB Test Laboratory:**	
Testing location/ address ..... :	
Tested by (name + signature)..... :	Bernardo Rieder
Approved by (+ signature)..... :	Markus Jäger
☐ Testing procedure: TMP	
Tested by (name + signature)..... :	
Approved by (+ signature)..... :	
Testing location/ address ..... :	
☐ Testing procedure: WMT	
Tested by (name + signature)..... :	
Witnessed by (+ signature) ..... :	
Approved by (+ signature)..... :	
Testing location/ address ..... :	
☐ Testing procedure: SMT	
Tested by (name + signature)..... :	
Approved by (+ signature)..... :	
Supervised by (+ signature)..... :	
Testing location/ address ..... :	
☐ Testing procedure: RMT	
Tested by (name + signature)..... :	
Approved by (+ signature)..... :	
Supervised by (+ signature)..... :	
Testing location/ address ..... :	

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
8 Markings **10 Protection against electric shock** **14 Construction (partial)** **16 Resistance to ageing** **17 Insulation resistance and electric strength** **24 Mechanical strength (partial)** **25 Resistance to heat** **27 Creepage and clerance distances** **28 Abnormal heat**	**Electrosuisse**

Summary of compliance with National Differences:

No European group differences applicable.

Copy of marking plate

Test item particulars ..... :	fused adaptor / polarized fused adaptor / multiway adaptor / conversion adaptor / intermediate adaptor
Standard Sheet ..... :	None
Rated current (A) and/or power (W) ..... :	10 A
Rated voltage (V) ..... :	250 V
Degree of protection against harmful ingress of water :	ordinary
Provision for earthing ..... :	with earthing contact
Method of connecting the cable ..... :	–
Type of cable ..... :	–
Nominal cross-sectional areas (mm²) ..... :	--
Type of terminals ..... :	–
Type of connections ..... :	–
Socket-outlets:	
Degree of protection against electric shock ..... :	normal protection
Existence of enclosures ..... :	enclosed
Existence of shutters ..... :	with shutters
Method of application / mounting of the socket-outlet .:	portable-type
Method of installation ..... :	–-
Plugs:	
Class of equipment ..... :	I
Possible test case verdicts:	
- not tested..... :	––
- 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 ..... :	2011-09-15
Date (s) of performance of tests ..... :	2011-10-10

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.

Photos see: 10-IK-0233.09 Appendix Photo (3 pages)

Factory:

Noventa (Thailand) Co., Ltd.
304 Industrial Park, 447 Moo 7
Tha Toom Sub-District
Sri Maha Phote
Prachinburi 25140, Thailand

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
8	**MARKING**		Pass
8.1	Accessories marked with:		Pass
	- rated current (A) and/or power (W) .....:	10 A	Pass
	- rated voltage (V) .....:	250 V	Pass
	- symbol for nature of supply .....:	~	Pass
	- manufacturer's or responsible vendor's name .....:	SKROSS	Pass
	- type reference.....:	AU	Pass
	- symbol for degree of protection (first digit) .....:		N/A
	- symbol for degree of protection (second digit) ....:		N/A
	Socket-outlets with screwless terminals marked with:		N/A
	- the length of insulation to be removed .....:		N/A
	- an indication of the suitability to accept rigid conductors only (if any) .....:		N/A
	Marking for rated current and/or power completed by the word MAX		Pass
	Maximum admissible power marking easily discernible until the last plug is connected		Pass
	Multiway adaptors: maximum admissible power marking not placed on the socket-outlet engagement surface		N/A
	Fused adaptors marked to indicate the presence of a fuse within the adaptor		N/A
	Rewirable fused intermediate adaptors marked to indicate the rated current of the fuse within the intermediate adaptor .....:	on intermediate adaptor / on attached label	N/A
	Non-rewirable fused intermediate adaptors permenently marked with the rated current of the fuse appropriate to the attached flexible cable and to associated appliances		N/A
8.2	Symbols used: as required in the standard		Pass
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		Pass
8.3	Marking of fixed socket-outlets placed on the main part:		N/A
	- rated current, rated voltage and nature of supply		N/A
	- identification mark of the manufacturer or of the responsible vendor		N/A
	- length of insulation to be removed, if any		N/A
	- type reference		N/A
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name and type reference		N/A

	Symbol for the degree of protection (second digit): marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		N/A
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N/A
8.5	Neutral terminals: N .....:	N	Pass
	Earthing terminals: [earth symbol] .....:	Earth symbol	Pass
	Markings not placed on screws or other easily removable parts		Pass
	Terminals for conductors not forming part of the main function of the socket-outlet:		N/A
	- clearly identified unless their purpose is self evident, or		N/A
	- indicated in a wiring diagram fixed to the accessory		N/A
	Identification of accessory terminals may be achieved by:		N/A
	- their marking with graphical symbols according to IEC 147 or colours and/or alphanumeric system, or		N/A
	- their physical dimension or relative location		N/A
8.6	Fixed socket-outlets other than ordinary: marked with the IP symbol visible when the accessory is installed		N/A
8.7	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		N/A
8.8	Indication of which position or with which special provision the declared IP of flush-type and semi-flush type fixed socket-outlets is ensured		N/A
	Additional indication for socket-outlets intended only for mounting on certain types of surface		N/A

9	**CHECKING OF DIMENSIONS**	–-

10	**PROTECTION AGAINST ELECTRIC SHOCK**		Pass
10.1	Socket-outlets: live parts not accessible		Pass
	Live parts of plug portion of adaptors: not accessible when the plug portion of an adaptor is in partial or complete engagement with a socket-outlet		Pass
	Test with standard test finger shown in figure 2		Pass
	Accessories with elastomeric or thermoplastic material: additional test carried out at 35 °C ± 2 °C with a straight unjointed test finger (75 N for 1 min)		N/A
	During the test: accessories not deform and no live parts accessible		N/A

	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 22: specimens not show deformation		N/A
10.101	Fuse adaptor: not possible to remove or replace a fuse-link unless the adaptor is completely withdrawn from the socket-outlet		N/A
10.2	Accessible parts (with exception of small screws and the like for fixing bases and covers or cover plates): made of insulating material		N/A
	Cover or cover plates of fixed socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		N/A
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers		N/A
	Insulating linings or insulating barriers cannot be removed without being permanently damaged		N/A
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete		N/A
	There is no risk of accidental contact between live parts and metal covers or cover plates		N/A
10.2.2	Metal covers or cover plates automatically connected, through a low-resistance connection, to the earth during fixing		N/A
10.3	Connection between a pin of an associated plug and a live socket-contact of an adaptor or between a pin of an adaptor and a live socket contact of a socket-outlet not possible while any other current carrying pin is accessible		N/A
	Compliance checked by manual test and by means of gauges with tolerances as specified in 9.1		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		N/A
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		N/A
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates .....:		N/A
10.4	External parts of adaptors made of insulating material		Pass
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		Pass
10.5	Shuttered socket-outlets portions of adaptors: live parts not accessible, without a plug in engagement, with the gauge shown in figure 4		Pass
	Live contacts automatically screened when the plug is withdrawn		Pass

	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		Pass
	Gauge applied to the entry holes corresponding to live contacts with a force up to 1 N shall not touch live parts		Pass
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		Pass
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		N/A
	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		N/A
	After this test: socket-outlet still comply with the requirements of clause 9		N/A
10.7	Socket-outlet with increased protection: live parts not accessible		N/A
	Gauge of figure 4 applied with a force of 1 N on all accessible surfaces shall not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		N/A

11	**PROVISION FOR EARTHING**	N/A

12	**TERMINALS**	N/A

13	**CONSTRUCTION OF FIXED SOCKET-OUTLETS**	N/A

14	**CONSTRUCTION OF PORTABLE ACCESSORIES**		Pass
14.1	Non-rewirable intermediate adaptors:		N/A
	flexible cable cannot be separated from the adaptor without making it permanently useless		N/A
	adaptor cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		N/A
14.2	Pins of adaptors: adequate mechanical strength		N/A
	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin for 1 min by means of a steel rod Ø 4,8 mm		N/A
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm		N/A
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		N/A
14.3	Pins of adaptors:		
	- locked against rotation, except where rotation is not likely to impair safety or function		Pass
	- not removable without dismantling the adaptor		Pass
	- adequately fixed in the body of the adaptor when the plug is wired and assembled as in normal use		Pass

	Earthing or neutral pins or contacts of adaptors: not possible to replace in an incorrect position		Pass
14.4	Earthing contacts and neutral contacts of adaptors:		Pass
	- locked against rotation		Pass
	- removable only with the aid of a tool, after dismantling the adaptor		Pass
14.5	Socket-contact assemblies: sufficient resiliency		---
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		Pass
14.7	Enclosures of rewirable accessories: completely enclose terminals and ends of flexible cable.		N/A
	Construction of rewirable accessories:		N/A
	- conductors can be properly connected		N/A
	- cores not pressed against each other		N/A
	- cores of live conductor not in contact with accessible metal parts		N/A
	- core of earthing conductor not in contact with live parts		N/A
14.8	Rewirable accessories: terminal screws or nuts cannot become loose and fall out of position and establish an electrical connection between live parts and earthing terminal or metal parts		N/A
14.9	Rewirable accessories with earthing contact: ample space for slack of earthing (test)		N/A
	Non-rewirable non-moulded-on accessories with earthing contact: current-carrying conductors stressed before the earthing conductor if the flexible cable slips in its anchorage		N/A
14.10	Terminals of rewirable accessories and terminations of non-rewirable accessories: located and shielded that loose wires not present a risk of electric shock		N/A
14.10.1	*Rewirable accessories*: test with 6 mm free wire		N/A
	free wire of a conductor connected to a live terminal not touch any accessible metal part or able to emerge from the enclosure		N/A
	free wire of a conductor connected to an earthing terminal not touch a live part		N/A
14.10.2	*Non-rewirable, non-moulded-on accessories*: test with a free wire of length equivalent to the maximum designed stripping length declared by the manufacturer plus 2 mm		N/A
	free wire of a conductor connected to a live termination not touch any accessible metal part or reduce creepage and clearance below 1,5 mm to the external surface		N/A
	free wire of a conductor connected to an earth termination not touch any live part		N/A
14.10.3	*Non-rewirable, moulded-on accessories*:		N/A

	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm		N/A
14.11	Rewirable intermediate adaptors:		N/A
	- clear how relief from strain and prevention of twisting is intended to be effected		N/A
	- cord anchorage, or at least part of it, integral with or permanently fixed to one of the component parts of the plug or portable socket-outlet		N/A
	- makeshift methods not used		N/A
	- cord anchorage suitable for the different types of flexible cable which may be connected; screws, if any: not serve to fix any other component		N/A
	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts		N/A
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit		N/A
14.12	Insulating parts which keep live parts in position: reliably fixed together; not possible to dismantle the accessory without the aid of a tool		N/A
14.13	Covers of adaptors: bushes for entry holes for the pins not become detached inadvertently from the inside when the cover is removed		N/A
14.14	Screws intended to allow access to interior of the accessory: captive		Pass
14.15	Engagement face of adaptors: no projections other than pins		---
14.16	Engagement of associated plugs not prevented by any projection from the engagement face of adaptors		---
14.17	Accessories other than ordinary: provided with gland(s) or the like		N/A
	Plugs other than ordinary: adequately enclosed		N/A
	Portable socket-outlets other than ordinary: adequately enclosed without a plug in engagement		N/A
	Lid springs (if any): of corrosion resistant material (bronze or stainless steel)		N/A
14.18	Portable socket-outlets: means for suspension from a wall or other mounting surfaces not allow access to live parts		N/A
	No free openings between space intended for suspension means fixed to the wall and live parts		N/A
14.19	Combinations of plugs and socket-outlets with circuit-breakers or other protective devices comply with relevant standards, if any ..... :		N/A
14.20	Portable accessories: not integral part of lampholders		Pass

14.21	Plugs for equipment of class II:		N/A
	- non-rewirable		N/A
	- if incorporated in a cord set: provided with a connector for equipment of class II		N/A
	- if incorporated in a cord extension set: provided with a portable socket-outlet for equipment of class II		N/A
14.22	Components (switches and fuses) incorporated in accessories: comply with the relevant IEC standard		N/A
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		---
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		---
	Tests for two-pole plugs, with or without earthing contact, with rating up to and including 16 A and 250 V (plug of equipment inserted into a fixed socket-outlet complying with this standard):		---
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V) ..... :		—
	Temperature rise of the pins after 1 h not exceed 45 K (K) ..... :		---
14.23.2	Additional torque applied to the socket-outlet to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm) (adaptor fitted with a relevant plug complete with 1 m of 0,75 mm² circular flexible cable to 227 IEC 53, to each socket-outlet portion of the adaptor) ..... :		---
14.23.101	Adaptors withstand lateral strain imposed by equipment likely to be introduced into them		---
	Test made 4 times with the adaptor turned through 90°, 5 N for 1 min (device shown in fig. 6); test repeated for each socket-outlet portion of the adaptor		---
	During the test: device not come out		---
	After the test:		---
	- no damage		---
	- adaptor complies with clause 22		---
14.24	Adaptors: can easily withdrawn by hand from the relevant socket-outlet		---
	Gripping surfaces so designed that the adaptor can be withdrawn without having to pull on the flexible cable, if any		---
14.25	-		N/A
14.101	Plug portion of adaptors provided with earthing pins or contacts if any one of the socket-outlet portions is provided with an earthing pin or contact		Pass

14.102	Adaptors for use in polarized socket-outlets: internal connection ensure that plug pins, socket-contacts and terminals, if any, maintain the same polarity at the input and output portions of the adaptor		N/A
14.103	Multiway adaptors designed that it is not possible to plug two or more multiway adaptors into each other		N/A
14.104	Cable considered as a bare conductor if the insulation is not equivalent to the IEC standard and it does not comply with the electric strength test according to 17.2		N/A
14.105	Provision made within the body of a fused adaptor for fuse-link complying with IEC 60269 as far as it reasonably applies		N/A
	Fuse-link mounted between contacts fitted between an adaptor plug pin and the corresponding socket-contact(s)		N/A
	Adaptors for use in polarized system: fuse mounted between the line plug pin and the corresponding line socket-contact(s)		N/A
	Fuse links not fitted in the earthing circuit		N/A
	Fuse-link cannot be left in inadequate contact when the adaptor is assembled		N/A

15	**INTERLOCKED SOCKET-OUTLET PORTIONS OF ADAPTORS**	N/A

16	**RESISTANCE TO AGEING, TO HARMFUL INGRESS OF WATER AND TO HUMIDITY**		Pass
16.1	***Resistance to ageing***		Pass
	Accessories shall be resistant to ageing		Pass
	Accessories subjected to a test in a heating cabinet at 70 °C ± 2 °C for seven days (168 h)		Pass
	After the tests, samples shall show:		Pass
	- no crack visible with normal or corrected vision without additional magnification		Pass
	- no sticky or greasy material		Pass
	- no trace of cloth (forefinger pressed with 5 N)		Pass
	- no damage		Pass
16.2	*Resistance to harmful ingress of water*		Pass
	Enclosure of accessories other than ordinary shall provide a degree of protection against harmful ingress of water in accordance with the classification		Pass
16.2.1	Flush-type and semi flush-type socket-outlets fixed:		N/A
	- in a test wall using an appropriate box in accordance with the manufacturer's instructions		N/A
	- in a test wall according to figure 41		N/A

	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use and fitted with flexible cables according to table 17 having the largest and smallest cross-sectional area given in table 3:		N/A
	- largest cross-sectional area (mm^2); type of cable (table 27) .....:		—
	- smallest cross-sectional area (mm^2); type of cable (table 27) .....:		—
	Mounting screws tightened with a torque equal to 2/3 of the torque given in table 6 (Nm) .....:		—
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm) .....:		—
	Fixed and portable socket-outlets tested without a plug in engagement		N/A
	Plugs tested with in full engagement with:		N/A
	- a fixed socket-outlets		N/A
	- a portable socket-outlets		N/A
	of the same system and with the same degree of protection against water		—
16.2.2	Splash-proof accessories subjected to the test IP X4 according to IEC 529		N/A
16.2.3	Jet-proof accessories subjected to the test IP X5 according to IEC 529		N/A
16.2.4	Specimens withstand an electric strength test specified in 17.2 which is started within 5 min after the IP test		N/A
16.3	***Resistance to humidity***		Pass
	Accessories proof against humidity which may occur in normal use		Pass
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		Pass
	Specimens kept in the cabinet for:		Pass
	- two days (48 h) for ordinary accessories		Pass
	- seven days (168 h) for accessories other than ordinary		N/A
	After this treatment the specimens show no damage		Pass

17	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		Pass
17.1.1	For adaptors: insulation resistance (500 V d.c. for 1 min):		Pass
	a) between all poles connected together and a metal foil in contact with the outer surface of accessible external parts of insulating material and including external assembly screws ≥ 5 MΩ .....:	>100 MΩ	Pass
	b) between each pole in turn, and all others connected together ≥ 5 MΩ .....:	> 100 MΩ	Pass

	c) between any metal part of any cable anchorage, including clamping screws, and the earthing pin or terminal, if any ≥ 5 MΩ .....:		N/A
	e) for intermediate adaptors, between any metal part of the cable anchorage and a metal rod of the maximum diameter of the flexible cable inserted in its place ≥ 5 MΩ .....:		N/A
17.1.2	-		N/A
17.2	Electric strength, test voltage (a.c., for 1 min):		Pass
	a) test voltage (V) .....:	1250 V Only if adaptor fully inserted	Pass
	b) test voltage (V) .....:	1250 V	Pass
	c) test voltage (V) .....:		N/A
	d) test voltage (V) .....:		N/A
	e) test voltage (V) .....:		N/A
	During the test no flashover or breakdown		Pass

18	**OPERATION OF EARTHING CONTACTS**	---

19	**TEMPERATURE RISE**	---

20	**BREAKING CAPACITY**	---

21	**NORMAL OPERATION**	---

22	**FORCE NECESSARY TO WITHDRAW THE PLUG**	---

23	**FLEXIBLE CABLES AND THEIR CONNECTION**	N/A

24	**MECHANICAL STRENGTH**		Pass
	Adaptors have adequate mechanical strength		Pass
24.1	-		N/A
24.2	Adaptors: tumbling barrel test; number of falls ....:	50 in accordance to AS/NZS 3112:2004 Abs. 2.13.7.1 the pins are inspected and ***straightened*** to pass through the gauge	Pass
	After the test:		Pass
	No part become detached or loosened;		Pass
	Pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		Pass

	Pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction (test not carried out where rotation of the pins does not impair safety or function)		Pass
24.3	-		N/A
24.4	Adaptors (elastomeric or thermoplastic material): impact test, weight 1000 g, height 100 mm (apparatus shown in fig. 21)		Pass
	Specimens placed in a refrigerator at –15 °C ± 2 °C for at least 16 h		Pass
	After the test: no damage		Pass
24.5	Adaptors (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 22)		Pass
	After the test: no damage		Pass
24.6	-		N/A
24.7	Pins of plug portions of adaptors with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 23)		---
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		---
24.8	Shuttered socket-outlet portions of adaptors: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		---
	Force applied for 1 min against the shutter of an entry hole by means of one pin .....:		—
	Pin not come in contact with live parts		---
	After the test: no damage		---
24.9	-		N/A
24.10	Plug portion of adaptors: pull test to verify the fixation of pins in the body of the adaptor (new specimens)		---
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at 70 °C for 1 h .....:		—
	After the test: displacement of pins in the body of the plug ≤ 1 mm .....:		---
24.11	-		N/A
24.12	-		N/A
24.13	-		N/A
24.14	-		N/A
24.15	-		N/A
24.16	-		N/A
24.17	-		—
24.18	-		—

25	**RESISTANCE TO HEAT**	Pass
25.1	Fixed and portable accessories: heating cabinet 100 °C for 1 h	Pass

	During the test: no change impairing their further use and sealing compound, if any, not flow		Pass
	After the test: markings still legible		Pass
25.2	Parts of insulating material of fixed socket-outlets necessary to retain current-carrying parts and parts of the earthing circuit in position, and parts of the front surface zone of 2 mm width surrounding the phase and neutral pin entry holes: ball-pressure test (1 h, 125 °C)		Pass
	After the test: diameter of impression ≤ 2 mm .....:	0.9	Pass
25.3	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)		N/A
	Test temperature (°C) .....:	70 °C / 40 °C + highest temperature rise determined during the test of clause 19	N/A
	After the test: diameter of impression ≤ 2 mm .....:		N/A
25.4	Portable accessories: compression test (20 N, 1 h, 80 °C) by means of the apparatus shown in figure 28		Pass
	After the test: no damage		Pass

26	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		N/A
27	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND**		Pass
27.1	Creepage distances, clearances and distances through sealing compound no less than the values shown in table 23		Pass
	Creepage distances (cr):		*Pass*
	1) between live parts of different polarity ≥ 4(3) mm .....:	>15 mm	Pass
	2) between live parts and:		Pass
	- accessible insulating and earthed metal parts ≥ 3 mm .....:	>15 mm	Pass
	- parts of earthing circuit ≥ 3 mm .....:	>15 mm	Pass
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm .....:		N/A
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm .....:		N/A
	- external assembly screws, other than screws which are on the engagement face of adaptor and are isolated from the earthing circuit ≥ 3 mm .....:		N/A
	3) between pins of an adaptor and metal parts connected to them, when fully engaged, and a socket-outlet having accessible unearthed metal parts ≥ 6(4,5) mm .....:	>11 mm	Pass
	4) between the accessible unearthed metal parts of a socket-outlet and a fully engaged adaptor having pins and metal parts connected to them ≥ 6(4,5) mm .....:		N/A

	5) between live parts of a socket-outlet portion of an adaptor (without a plug) and its accessible unearthed metal parts ≥ 6(4,5) mm .....:		N/A
	Clearances (cl):		N/A
	6) between live parts of different polarity ≥ 3 mm ..:	>15 mm	Pass
	7) between live parts and:		Pass
	- accessible insulating and earthed metal parts not mentioned under 8 and 9 ≥ 3 mm .....:	5.6 mm	Pass
	- parts of earthing circuit ≥ 3 mm .....:	5.6 mm	Pass
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm .....:		N/A
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm .....:		N/A
	- external assembly screws, other than screws which are on the engagement face of the adaptor and are isolated from the earthing circuit ≥ 3 mm .:		N/A
	8) between live parts and:		N/A
	- exclusively earthed metal boxes ≥ 3 mm .....:		N/A
	- unearthed metal boxes, without insulating lining ≥ 4,5 mm .....:		N/A
	9) between live parts and the surfaces on which the base of a socket-outlet for surface mounting is mounted ≥ 6 mm.....:		N/A
	10) between live parts and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting ≥ 3 mm.....:		N/A
	Distance through insulating sealing compound:		N/A
	11) between live parts covered with at least 2 mm of sealing compound and the surfaces on which the base of a socket-outlet for surface mounting is mounted ≥ 4(3) mm .....:		N/A
	12) between live parts covered with at least 2 mm of sealing compound and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting ≥ 2,5 mm .....:		N/A
27.2	Insulating sealing compound: not protrude above the edge of the cavity in which it is contained		N/A
27.3	Ordinary surface-type socket-outlets: no bare current-carrying strips at the back		N/A

28	**RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING**	Pass
28.1	*Resistance to abnormal heat and to fire*	Pass
28.1.1	**Glow-wire test**	Pass
	For parts of fixed accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 850 °C	N/A
	No visible flame and no sustained glowing	N/A

	Flame and glowing extinguish within 30 s .....:	0	N/A
	No ignition of the tissue paper		N/A
	For parts of fixed accessories needed to retain the earth terminal in position in a box: test temperature 650 °C		N/A
	No visible flame and no sustained glowing		N/A
	Flame and glowing extinguish within 30 s .....:		N/A
	No ignition of the tissue paper		N/A
	For parts of portable accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 750 °C		Pass
	No visible flame and no sustained glowing		Pass
	Flame and glowing extinguish within 30 s .....:		Pass
	No ignition of the tissue paper		Pass
	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: test temperature 650 °C		N/A
	No visible flame and no sustained glowing		N/A
	Flame and glowing extinguish within 30 s .....:		N/A
	No ignition of the tissue paper		N/A
28.1.2	Plug portion of adaptors with pins provided with insulating sleeves:		---
	Test temperature maintained for 3 h by means of the apparatus shown in figure 26 .....:	120 °C / 180 °C	—
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		---
28.2	**Resistance to tracking**		Pass
	Parts of insulating material retaining live parts in position of accessories other than ordinary: test voltage 175 V, 50 drops, solution A of IEC 112		Pass
	No flashover or breakdown		Pass

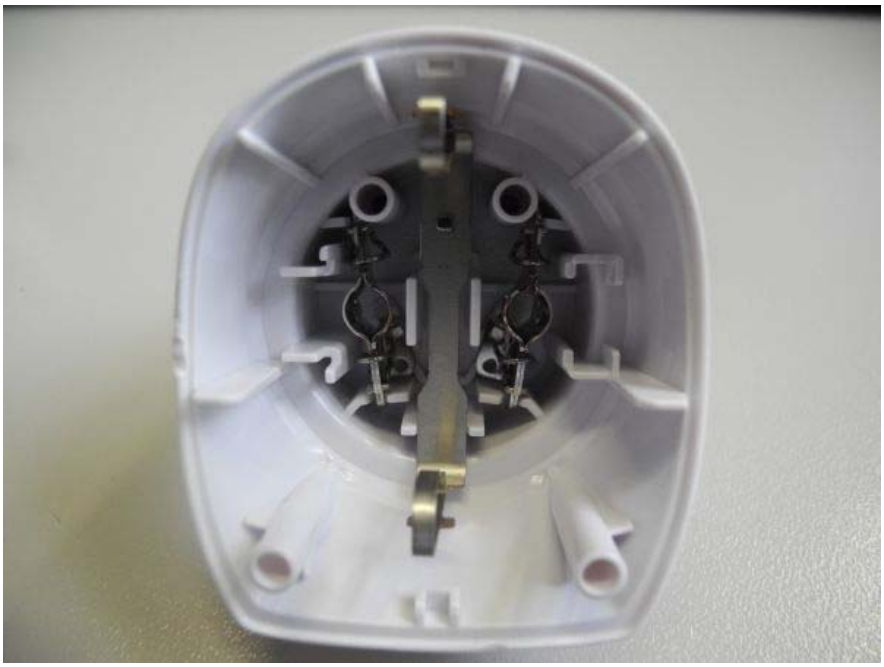
29	**RESISTANCE TO RUSTING**		Pass
	Ferrous parts protected against rusting		Pass
	No signs of rust after 10 min in carbon tetrachloride, trichloroethane or equivalent degreasing agent, 10 min 10 % solution of ammonium chloride, 10 min in a box with air saturated with moisture and 10 min at 100 °C		Pass

30	**ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES**	---

Front side

Left side

Rear side



Inside

Electrosuisse

Contact / Pin

Shutter