



TEST REPORT

Reference No	-21	WTX23D10218930Z002
Applicant	: 3	GlobTek, Inc.
Address	Chur.	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	S. C.	GlobTek, Inc.
Address	:	186 Veterans Dr. Northvale, NJ 07647 USA
Product Name	: 3	Blades-R
Model(s)	:	R-SAA-2
Total pages	: and	68 pages
Standards	WALTE	 ☑ AS/NZS 3105:2014+A1:2017 ☑ AS/NZS 3112:2017+A1:2021 ☑ AS/NZS 3100:2022
Date of Receipt sample	S. C.	2023-10-18
Date of Test	:	2023-10-18 to 2023-11-15
Date of Issue		2024-03-05
Test Result	:	Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Sam Qi / Designated Reviewer

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AL	Re	quirement - Test	Result - Remark	Verdict
	t at at	the the with	and the she was a	
l est item des	cription :	Blades-R		
Trademark		GlobTek, Inc	c. whit whit whit white	
Model and/or	type reference	R-SAA-2		
Serial numbe	ŗ	: N/A		
Rating(s)				
Difference bo 1.Australian s 3112:2017+A	with models R-SAA n ambient tempera etween models: standard plug provi .1:2021.	-2 is Power supply with deta ture specified by manufactu ded in the equipment has be	een tested according to AS/NZS	
2. For models effectively pre- remaining in t	with detachable p events any disinteg the socket.	lug, the plugs are fixed with ration or conductive parts	enclosure by mechanical method	that
Name and ac	dress of factory	(ies):	switching mode power supply	St 50
1. ClobTok	nc. 186 Veterans D	r Northvale NI 07647 US	TER WAITER WAITE WAITE WATER WATER	
2. GlobTek (S Suzhou, Jiang	Suzhou) Co., Ltd B Su 215021, China	uilding 4, No. 76, Jin Ling E	ast Rd., Suzhou Industrial Park,	
2. GlobTek (S Suzhou, Jiang Summary of	Suzhou) Co., Ltd B Su 215021, China testing:	uilding 4, No. 76, Jin Ling E	ast Rd., Suzhou Industrial Park,	at whitet
2. GlobTek (S Suzhou, Jiang Summary of The samples	Suzhou) Co., Ltd Br Su 215021, China testing: are tested in accor	vilding 4, No. 76, Jin Ling E	ast Rd., Suzhou Industrial Park, 014+A1:2017 used in conjunction	with AS/NZS
2. GlobTek (S Suzhou, Jiang Summary of The samples 3100:2022. Part 1: Additio	Suzhou) Co., Ltd Bi Su 215021, China testing: are tested in accor onal reguirement a	vilding 4, No. 76, Jin Ling Ear rdance with AS/NZS 3105:2	ast Rd., Suzhou Industrial Park, 014+A1:2017 used in conjunction 014+A1:2017(Page 3-19);	with AS/NZS
2. GlobTek (S Suzhou, Jiang Summary of The samples 3100:2022. Part 1: Additio Part 2: Additio	Suzhou) Co., Ltd Br Su 215021, China testing: are tested in accor onal requirement a onal requirement a	cording to AS/NZS 3105:2 ccording to AS/NZS 3105:2	ast Rd., Suzhou Industrial Park, 014+A1:2017 used in conjunction 014+A1:2017(Page 3-19); 022(Page 20-45);	with AS/NZS
2. GlobTek (S Suzhou, Jiang Summary of The samples 3100:2022. Part 1: Additio Part 2: Additio Part 3: Additio Part 4: Additio	Suzhou) Co., Ltd Bi Su 215021, China testing: are tested in accor onal requirement a onal requirement a onal requirement a onal requirement c	ailding 4, No. 76, Jin Ling Ea edance with AS/NZS 3105:2 ccording to AS/NZS 3105:2 ccording to AS/NZS 3100:2 ccording to Appendix J of As ponnector on detachable plug	ast Rd., Suzhou Industrial Park, 014+A1:2017 used in conjunction 014+A1:2017(Page 3-19); 022(Page 20-45); S/NZS 3112: 2017+A1: 2021 (Pag g part with adaptor has been teste	with AS/NZS ge 46-66); ed with the

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a d	A0/11/20/01/00	24	d A
Clause	Requirement - Test	Result - Remark	Verdict
		we we we a	
2 Million M	COMPLIANCE WITH STANDARDS		JE WALK
2.1	General requirements of AS/NZS 3100	The starting	Р
it to white	This Standard shall be read in conjunction with AS/NZS 3100, and the appropriate provisions of AS/NZS 3100 shall apply to the construction of the EPOD and its insulation and the safegurading of parts which normally carry current.	NUTER WALTER WALTER WALTER	and P and
2.2	Specific requirements of this Standard	t set set store	<u> </u>
WALTER WAY	An EPOD shall be deemed to comply with this Standard only if it complies with all the requirements of this Standard and passes the tests specified herein.	WALFER WALFER WALFER WALF	Et WALTER W
2.3	Requirements of other Standards	in the second second	
es white	Components incorporated in an EPOD, which are depended upon for safety, shall comply with the appropriate requirements of the relevant Australian or Joint Australian/New Zealand Standards.	et et watter watter watter	N TEL MUTER
5 🖉	DESIGN AND CONSTRUCTION	the state	P P
5.1	Current rating	a life mile water	P
NUTEX WILL	not greater than that of the plug or appliance inlet, nor greater than the current-carrying capacity of the power supply cord or flexible cable.	An	
5.2	Mechanical strength	Alt of all out	. 1 - 1
53	The enclosing case of the EPOD, or of any reeling or coiling arrangement, shall be of robust construction and adequate mechanical strength, and shall comply with Clause 8.4.	A MAILER MAILER MAILER W	P P
<u></u>	The insulating portions of an EPOD shall consist	strik with which which	
	of either-	me the the	1
Et WALTER	(a) insulating material having properties not inferior to those specified in AS 3121(NZS/AS 3121) for insulating mouldings having a temperature class of 60°C and in addition, complies with Clause 8.9 of this Standard; or	NTEX WALTER WAITER WALTER	N STATE
whitek w	(b) ceramic material of a type such that, after immersion in water for 48 h and after all visible drops of water have been removed from the surface by means of a clean dry cloth, it will not have increased in mass by more than 2%.	whitek whitek whitek wh	N/A
h. n.	INSULATING MATERIALS TEST IN ACCORDAN	CE WITH AS 3121: 2002	10
5.4	Power supply cord and outgoing flexible cords		
white	Any power supply cord or outgoing flexible cords provided shall-	L'ET MALTE WALTE MALL	man an
Whitek.	(a) comply with the relevant requirements of AS/NZS 3191, AS/NZS 60227 and AS/NZS 60245;	of antifet white white	N/A
J.S.	(b) be a 3-core ordinary duty or heavy duty type;	a de de	N/A
and the	(c) have conductors with a cross-sectional area of	A A A A	N/A

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AS/NZS 3105			
Clause	Requirement - Test	Result - Remark	Verdict
	not loss than 1 mm ² ; and	m. m. m. a	1- 15
mare m	(d) for a power supply cord, comply with Clause	NUTER WALTER WALTER WAY	N/A
5.5	Outlet facilities	1 1 1	N/A
5.52	Socket-outlets cord extension sockets or connectors	at the the second	N/A
552	Socket-outlets	Mr Mr M	N/A
ret nuire	An EPOD may be provided with one or more socket-outlets-	the surfex muret	N/A
Whitek y	(a) complying with the relevant requirements of AS/NZS 3112 except that on the plane of the socket-outlet faceplate	when where white w	N/A
untiek wh	(i) the minimum distance from the edge of any live-pin aperture to the edge of the faceplate shall be 13.7 mm; and	LIEK MILEK MALIEK MAL	N/A
LIEK WALT	(ii) the maximum distance by which the faceplate, within the distance specified in Item (i), is below the plane shall be 3 mm; and	et muret whitet white	N/A
et wret	(b) each intended to accommodate a three-pin flat-pin plug conforming to AS/NZS 3112.	it it set	N/A
MATER WAL	No part of the EPOD, including any switch in any position, shall project more than 8.6 mm from the surface of the socket-outlet face, within the shaded area shown in Figure 1, except in the case of socket-outlets with special design features such as those that provide protection from dust weather or mechanical damage		N/A
St 50	There shall be no projections in the area defined		N/A
t whitek	For EPODs incorporating more than one socket- outlet, the centre-to-centre distance between adjacent socket-outlets shall be greater than 44 mm.	White white white	N/A
5.5.3	Cord extension sockets	i stander.	1.1. 1.1.
WALL WA	An EPOD shall be provided with one or more cord extension sockets each rated up to 10A complying with the relevant requirements of AS/NZS 3120.	et stet stret with	N/A
WALTER N	For EPODs incorporating cord extension sockets, individual cord anchorages shall be provided for each outgoing flexible cord at the body of the EPOD, however where just two cord extension sockets terminate to an EPOD body the junction described in Clause 2.5 may alternatively be used.	whitek whitek whitek	N/A
5.5.4	Connectors and appliance outlets	a at at a	P
Tet white	An EPOD may be provided with one or more connectors or appliance outlets each rated up to 10 A which shall comply with the relevant requirements of AS/NZS 60320.1 for connectors or AS/NZS 60320.2.2 for appliance outlets for Class Lequipment	WALTER WALTER WALTER	P
whitek w	For EPODs incorporating connectors, individual cord anchorages shall be provided for each outgoing flexible cord at the body of the EPOD, however where just two connectors terminate to	WALTER WALTER WALTER WA	N/A

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AS/NZS 3105			
Clause	Requirement - Test	Result - Remark	Verdict
	the body of the EPOD the junction described in	Mr. M. m. t	
NITE I	Clause 4.6 may alternatively be used	let the star stre	
555	Terminals	which which which which	N/A
<u></u>	EPODs shall not be provided with terminals as	at at let set	N/A
	an outlet facility.	strength white white	Nr. Ch.
5.5.6			N/A
ien would	Any EPOD, except for those provided with a Junction, may incorporate one or more lampholders provided the following requirements are met:	et whitet whitet whiter wh	N/A
me 1	(a) The maximum connected lamp load shall not exceed 10% of the EPOD rating.	watte main water water	N/A
UNLIEN JUN	(b) Any lamp shall be protected by a substantial guard or enclosure that cannot be removed without the use of a tool. This does not preclude the use of a binged cover intended to	white white white white	N/A
L'ANNE	allow lamp replacement	THE STREE STREET MILLES	
at white	(c) Any lampholder shall be of the all-insulated type as defined in AS/NZS 3100. Where a bayonet cap lampholder is provided, it shall comply with the relevant requirements of	A WALTER WALTER WALTER WAY	N/A
	AS/NZS 3117 or AS/NZS 61184. Where an Edison screw lampholder is provided, it shall comply with the relevant requirements of AS/NZS 3140 or AS/NZS 60238.	whitet whitet whitet white	
set with	Any lampholders provided shall be controlled by a Category 1 switch but the 'OFF' position need not be marked.	a for the set	N/A
5.5.7	Overcurrent protection	in the set of a	7.
enviret unit	Any EPOD having any combination of three or more outlet facilities, or an outlet facility rated in excess of 10 A shall be provided with manually resettable trip-free or cycling tripfree overcurrent protection having a current rating not exceeding the rated current of the device and which complies with Clause 8.5, except where the means of overcurrent protection is a miniature overcurrent circuit-breaker complying with the relevant requirements of AS/NZS 3111 or AS/NZS 60898.1.	whitek whitek whitek whitek	N/A
	Not more than one outlet facility rated in excess of 10 A shall be incorporated in an EPOD.	and any any an	N/A
whites wh	Fuses shall not be used as a means of overcurrent protection. Fuses shall not be accessible without the use of a tool and shall not be of a type which is replaceable without the use of a tool.	MALTER WALTER WALTER WALTER	N/A
5.5.8	Outlet switching	i i i it it	N/A
5.5.8.1	Switching requirements for EPODS	THE STREE STREET MANY	N/A
t set	EPODs shall be provided with manually-operated sw which shall be within 0.9 m of every outlet facility, if t	vitching of the outlet facilities, hey are—	N/A
white	a) fitted with a plug and power supply cord, the length of which exceeds 1.8 m, as described in Clause 6.1(a);	White white white whi	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
15	b)provided with a means of connection described	with the second	N/A
What we are	in Clause 6.1(b): or	THE STEP MUT MADE	
	c) fitted with a plug connector described in	The shirt of the	N/A
1.15	Clause 6 1(c) and a power supply cord, the	a at at at	Ser .
in the	length of which exceeds 1.8 m	TEL ALTE INTEL WALK	
	For the purpose of this Clause, the length of the su	upply cord for an EPOD fitted	NI/A
	with or without a junction shall be the maximum tot	al length from the plug face to	
	the cord entry point of any outlet facility	an english nom the plug lace to	
, fe	These switching arrangements shall be one of the	following:	L 26
- <u></u>	i) A switch or a miniature overcurrent circuit		N/A
	breaker or a cord-line switch which	mit whit whit when	- 1 m
	controls all outlet facilities and which is rated at	In A.	
	not less than the current rating of the EPOD	at at the the	
the con	ii) A switch controlling each outlet facility or	In the second second	N/A
1 1	socket-outlet provided each switch is rated		15
	at not less than the current rating of the outlet	the set set all all	
	facility or socket-outlet it controls. An	in white white and a	
	EPOD with only one outlet facility or socket-	· * *	
	outlet, with or without any lampholder	et the star stress of	
	as described in Clause 5.5.6 need not be	white where where we	
	provided with a switching arrangement.	i i de de	
5.5.8.2	Requirements for switches in EPODS	the star with the	N/A
	All switches shall be multi-pole and shall be of one of	of the following types—	N/A
15 1	a) a switch conforming with AS/NZS 3133 when	and the state	N/A
	tested in the EPOD. Where a switch controls	net when	
	socket-outlets, the switch shall conform with	3	
	Clauses 3.11 and 3.14.9 in AS/NZS 3112:2011	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	except it shall be a Category 1 switch and the	The with min white wi	
	ON position need not be marked. Where	IN IN I	
	operated by the insertion and withdrawal of a	L at at alt is	
	plug, the switch	ment unit white white	
	shall be operated only by a live pin of the plug	20. 20.	
- 5°	and need only open one live conductor;	1 1 1 1 5 C	5
	B) a miniature overcurrent circuit breaker	mint white white white	
	conforming with AS/NZS 3111 or AS/NZS	Store and the state	
<u> </u>	60898.1; or	the star star	
	c) a cord-line switch conforming with AS/NZS	ser when when all a	N/A
	3127 and located in the supply flexible cord at a	i i it	
r and	distance not exceeding 1.8 m from the EPOD.	de de la compañía de	NI/A
	Appliance switches conforming with AS/NZS	we we we we	N/A
F 0	61058.1 may not satisfy this requirement.		NI/A
D.0 5.6.1	Requirements for reeling of colling analygement	- COM STR. NOV	N/A
5.0.1	A realing or sailing arrangement may be	and an an	N/A
	incorporated with an EPOD provided with outlet	at at at at	IN/A
	facilities described in Clause 4.5.1.1	aller white white white	
1 1	Where a non-dectachable realing or coiling	in the second	NI/A
	arrangement is incorporated the nower supply	A At At At	S IWA
	cord shall not reach an excessive temperature	in and which which we	
	caused by being operated at rated load in the	20 2.	
	fully wound position	t at at at i	
Ser.	Compliance with this requirement may be	inter when white sur	N/A
	achieved by special cooling techniques or by		
	over-temperature protection.	let the the the	
1985 - 1985			

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	AS/NZS 3105				
Clause	Requirement - Test	Result - Remark	Verdict		
	the state state state while working	m. m. m. a			
WALTER WA	Compliance shall be checked by the test of Clause 8.3 and 8.6, except where an interlock switch is used that prevents the energizing of outlets unless the power supply cord is fully extended. Such an interlock switch shall comply with the relevant requirements of AS 3133.	Et wantet water water	N/A		
et white	Alternatively, a mechanical interlock may be provided whereby it is not possible to insert a plug into any socket-outlet unless the power supply cord is fully extended.	watter watter watter	N/A		
m 1	Where an over-temperature protection device is provided, it shall be-	untit whit with all	N/A		
55	(a) protected against mechanical damage; and	at at at a	N/A		
n m	(b) of the non-self-resetting thermal cut-out type that does not require replacement of a part.	it was was way	N/A		
5.6.2	Entry for power supply cord into reeling or coiling arrar	ngement	N/A		
t with	Any non-detachable reeling or coiling arrangement shall be capable of passing the test of Clause 8.8.	white white white	N/A		
5.7	Earthing continuity	men when when y	N/A		
whitek w	All EPODs shall provide earthing continuity between the earthing pin of the plug or appliance inlet and the earthing contact of each outlet facility and any exposed metal, in accordance with the requirements for earthing facilities stated in AS/NZS 3100.	ALTER MALTER WALTER WAT	N/A		
iet white	The earthing of any exposed metal or the earthing continuity of outlet facilities shall not rely solely on-	Mainter Wather Waller	N/A		
MUTER	(a) contact through the revolving axle of the cable reel; or	Tet Jet with	N/A		
dt.	(b) a single brush or single spring-loaded revolving contact.	when when we are	N/A		

6	MEANS OF CONNECTION	Nº Part
6.1	General	Р
1	Every EPOD shall be provided with facilities for connection to the supply by either	N/A
100	(a) a power supply cord and plug; or	N/A
whitek	(b) a Group 1 appliance inlet of the appropriate rating and complying with AS/NZS60320.1, or a Group 2 appliance inlet complying with AS/NZS 60320.1 and which is of a type that will only accept a cord extension socket complying with AS/NZS 3120 and intended for use with a three- pin, flat-pin plug conforming to AS/NZS 3112.	N/A
Tex III	(c) a plug connector complying with AS/NZS 60320.2.2	N/A
+	d) Integral or detachable plug portions in accordance with Appendix J of AS/NZS 3112.	P A
6.2	EPODs with integral pins for insertion into socket-outlets	P
Whitek	The plug portion of EPODs with integral pins for insertion into socket-outlets shall comply with the requirements for equipment with integral pins for	P



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AS/NZS 3105				
Clause	Requirement - Test	Result - Remark	Verdict	
UNLIEK	insertion into socket-outlets in accordance with AS/NZS 3112.	The state state share	WALTER	
	EPODs with integral pins for insertion into	N. W. W. S.	Р	

socket-outlets shall have no more than two outlet facilities.

7 🔊	THERMOSTAT OR ENERGY REGULATOR	The will will work and	- 4h-
white	Any thermostat or energy regulator incorporated shall comply with this Standard. In addition it shall be tested for compliance with AS/NZS 3161 or IEC 60730 series with respect to the endurance test only.	A watter waiter waiter waiter	N/A

8	POWER SUPPLY CORD ASSEMBLY	N/A 🔿
8.1 📣	Plug	N/A
	The plug shall	N/A
er whit	(a) have a pin configuration for a three-pin, flat- pin plug conforming to AS/NZS 3112;	N/A
	(b) be connected to the power supply cord in accordance with the configuration specified in AS/NZS 3112; and	N/A
Jet	(c) comply with the relevant requirements of AS/NZS 3112.	N/A
8.2	Power supply cord attachment	N/A
set of	The power supply cord shall be assembled with the EPOD by one of the following methods:	N/A
20.	(a) Type X attachment.	N/A
t .0	(b) Type Y attachment.	N/A
	(c) Type Z attachment.	N/A
MALTER	Where a Junction is used, the power supply cord shall be assembled with Type Z attachment. This requirement shall also apply to the method of assembly of the outlet facility flexible cords.	N/A
8.3	Length of power supply cord	- 18 - 1
ex white	The minimum length of the power supply cord shall be 0.9 m, and the maximum shall be as shown in Table 1, except that longer lengths with larger conductor areas may be used for the purpose of limiting voltage drop, provided that the voltage drop is not greater that 5% of the supply voltage when the device is operated at a rated current.	N/A
8.4	Length of flexible cords when cord extension sockets or connectors are used	* <u>3</u> 4 3
11 V	The requirements of Clause 6.3 shall apply to the power supply cord.	N/A
TET WAY	The length of the outgoing flexible cord from the point of exit of the cord from the junction or the body of the EPOD to its associated outlet facility shall be not more than 0.9 m.	N/A
8.5	Polarization	1 - 24-
WILLEX	The EPOD shall be constructed so that the polarity of the aperture configuration of any socket-outlet or cord extension socket	N/A

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AS/NZS 3105				
Clause	Requirement - Test	Result - Remark	Verdict	
	i at at let set with and	we we we we		
whites whi	corresponds to that of the plug pins and, when viewing the mating face of the socket-outlet, shall be earth, active, neutral, in a clockwise direction.	whilet whilet whilet while	WALTER WA	
NITER WALTE	The terminals of the plug and any outlet facility shall be connected to the appropriate conductor identified by the following colours of insulation:	milet whilet whilet whilet	N/A	
5	(a) Active—brown.		N/A	
m.	(b) Neutral—light blue.	the strength which we	N/A	
	(c) Earth—green/yellow.		N/A	
white w	NOTE: For heavy-duty flexible cord, the colours red and black are acceptable for active and neutral respectively.	* while while while while	N/A	

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9	MARKING	N/A
9.1	General	N/A
et white	The EPOD shall be marked in accordance with the relevant requirements of AS/NZS 3100, except that the rating shall be marked in both watts and amperes. It shall also be marked to indicate that the total load connected is not to exceed the rating of the device.	N/A
ALIEX N	Where a lampholder is provided and there is a restriction on the wattage of lamp that may be inserted, the maximum wattage of the lamp shall be marked. This form of marking shall be similar to 'MAXIMUM LAMP RATING WATTS'.	N/A
t antrel	Unless the EPOD is ,marked with a degree of IP33 or greater, it shall be marked "for indoor use only"	N/A
9.2	Additional marking requirements for EPODs incorporating a reeling or coiling arrangement	
UTEK MI	The following additional marking for EPODs incorporating a reeling or coiling arrangement shall be made in durable lettering not less than 3 mm in height and in a colour in contrast with that of the material of the reeling or coiling enclosure: DO NOT OPERATE UNLESS CORD FULLY UNREELED	N/A
MUTER	This additional marking shall be on the face or faces adjacent to the socket-outlets.	N/A
9.3	Location of marking	Р
INLIE V	The marking shall be clearly discernible from the outside of the EPOD. In addition, the rating and the marking specified in Clause 7.1 indicating that the total load is not to exceed the rating of the EPOD shall be clearly visible when the EPOD is in its normal position of use.	SALL P SAL
9.4	Instruction	<u></u>
Whitek	For EPODs provided with a Junction, an instruction shall be provided according to 'Equipment with Type X, Y and Z attachments' stated in AS/NZS 3100.	P

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AS/NZS 3105				
Clause	Requirement - Test	Result - Remark	Verdict	

10	TESTS	mr m m	P
10.1	General	and the de	P
nt sur tet ste	The EPOD shall pass the tests prescribed in Table 2, such tests being carried out in the order stated herein.	See the appended table	N° PN
- Whitek	When performing the insulation resistance test or the high voltage test, any surge voltage limiting component, (e.g. voltage dependent resistor), may be disconnected during the test.	the world would work work w	W P
10.2	Test of cord anchorage	-10. 2	
UNITE WI LIFE WALL	The test of cord anchorage shall be carried out in accordance with the requirements for 'cord anchorage' stated in AS/NZS 3100. For EPODs provided with outgoing flexible cords, this test shall also be applied to each cord anchorage required by Clause 4 for the outgoing flexible cord.	whitek whitek whitek whitek	N/A
whitek wh	In addition, for EPODs provided with a junction, the tests shall be repeated by applying pulls in turn to each combination of flexible cords including the power supply cord terminated at the junction. The tests shall be applied to each combination in the same plane and the pulls to each combination shall be made at an angle of 180°.	white white white	N/A
st white	At the conclusion of the test the junction shall show no damage likely to impair the safety of the EPOD.	TE WATE WATE WATE	N/A
10.3	Temperature rise during normal operation	See appended table 10.3	P
10.3.1	General	we we we w	P
WALTER N	EPODs without a control or conditioning function shall comply with Clause 10.3.2. EPODs with a control or conditioning function shall comply with Clause 10.3.3	EPODs without a control function	Р
10.3.2	Test 1		P
	The EPOD shall be operated at 10 A or rated current, whichever is the greater, and arranged in accordance with the marked operating instructions or warning label. Where a lampholder is provided, the lamp used for this test shall be of the maximum wattage marked on the EPOD or, in the absence of such marking, the lamp shall be of the highest wattage that can be accommodated. For a fluorescent lamp, a reference lamp complying with AS/NZS 61347.2.8 shall be used.	And a	
* whitek	If the marking set out in Clause 9.2 is not marked on EPODs incorporating a non-detachable reeling or coiling arrangement, this test shall be carried out with the power supply cord fully reeled or coiled.	et white white white	P
and a	The temperature of materials and insulation,	with all and and	11 P 11

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AS/NZS 3105			
Clause	Requirement - Test	Result - Remark	Verdict
antifet an	measured when temperatures are stable, shall not exceed the relevant values given for temperature rises of components and insulating material given in Table 5.7, 'Maximum temperature rise', in AS/NZS 3100. Any overload or overcurrent protection shall not operate	whitek whitek whitek white	re white whi
1033	Test 2	the state state with	N/A
SUNLINE S	The EPOD shall be connected to a supply at marked voltage and operated at marked output and at any marked duty cycle until steady state conditions are reached.	watter watter watter	N/A
MAN WALTER MANTER MANTER MANTER	The test shall be carried out at a power factor appropriate to any equipment with which the EPOD is marked in accordance with Clause 9.1(b), or in the absence of such marking, at a lagging power factor between 0.75 and 0.8. Prior to being connected to the output of the EPOD under test, an adjustable load shall be connected directly to a 240 V, 50 Hz supply, and configured to obtain the required rated output wattage/current at the nominated power factor. The load shall then be transferred to the EPOD under test and applied without change to its configuration.	0.75	N/A
TEK WALTE	The temperature of any material or insulation which may be exposed to excessive temperature during operation of the EPOD shall be measured throughout the test	and and and and and	N/A
* MAITER	If the marking requirement of Clause 9.2 is not marked on an EPOD incorporating a reeling or coiling arrangement, this test is carried out with the flexible cord fully reeled or coiled.	A THE WALLER WALLER W	N/A
STER SPACE	The temperature of materials and insulation measured when temperatures are stable shall not exceed the relevant values given for temperature rises for components and insulating material given in Table 5.7, 'Maximum temperature rise', in AS/NZS 3100:2009. Any overload or overcurrent protection shall not operate.	AND	N/A
10.4	Mechanical strength	at 15th with out of	P S
10.4 1	General	the the en the	1 75-
International Anna	Control devices having a mass of up to 500 g shall comply with Clauses 10.4.2 and 10.4.3.	20g	un ¹ P un
TEX WALTE	Control devices having a mass greater than 500 g shall comply with Clause 10.4.3.	itet milet milet waitet	N/A
10.4.2	Up to 500 g	the second second	P -
anti .	Control devices having a mass of up to 500 g shal	l be tested as follows:	Р
whitek w	(a) The device shall be released from a clamp, in an attitude likely to cause the most damage, so as to fall freely through a distance of 750 mm	white wiret whitet	Pr Pr

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AS/NZS 3105			
Clause	Requirement - Test	Result - Remark	Verdict
SUPER SUP	onto a steel plate not less than 5 mm thick which is supported on a concrete surface. The steel plate shall have a surface area not less than the projected area of the device when supported in the clamp.	When we we wanted wanted	MALIFE MAL
et stet	(b) Step (a) shall be repeated four times making five tests in all.	at at at set	Set P Set
WALTER N	On completion of these tests, the external body of the control device shall not be damaged to such an extent that the standard test finger specified in AS/NZS 3100 can touch live parts.	A ANTER MATTER MATTER MATTER	P
10.4.3	Impact hammer test	a to the tot	N/A
unt white	A separate sample of the control device, not subjected to any previous tests, shall be tested in accordance with the requirements for mechanical strength of AS/NZS 60335.1.	white white white white	N/A
10.5	Overload test	t at	J P J
water	The control device shall be connected to supply at subjected to the following overload conditions:	marked voltage and	P
WALTER W	(a) Any control device which is fitted with a thermal cut-out shall be subjected to the maximum overload conditions attainable in service which can be applied without causing the thermal cut-out to operate.	Without thermal cut-out	N/A
stet white	(b) Any control device which is not fitted with a thermal cut-out shall be subjected to overload conditions which are 15 percent above marked load.	STEL WALTER WALTER W	STOL P STO
white v	The test shall continue for 4 h or until temperatures become substantially stable, whichever is the lesser period.	1h18min (substantially stable)	P
un on	During the test— (i) the temperature limits for insulating materials specified in AS/NZS 3100 shall not be exceeded by more than 35°C; and	See appended table 10.3	
EX WALTER	(ii) no condition that gives rise to any other hazard shall prevail.	set writer miret whitek wh	P P
10.6	Overcurrent protection		N/A
10.6.1	General EPODs provided with outlet facility overcurrent protection in accordance with Clause 4.5.3 shall comply with the tests specified in Clauses 8.5.2 and 8.5.3.	WALL WALLS WALLS	N/A N/A
TEK WALTEN	These tests shall not be conducted on EPODs incorporating overcurrent protection in the form of a miniature overcurrent circuit-breaker complying with AS/NZS 3111 or AS/NZS 60898.1.	UND WATER WATER WATER W	N/A
10.6.2	Test 1The EPOD shall be operated at 13.75 ± 0.15 A or $137.5 \pm 1.5\%$ of rated current, whichever is thegreater, in an ambient temperature of 23% $\pm 2\%$ in a draught-free environment.	AND	 N/A

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Clause	Requirement - Test	Result - Remark	Verdict
- 52	and the set of all and	me me me m	
Set .	The overcurrent protection shall operate to	s at at a	1 . J
mr. m	interrupt the load current within 2 h.	with mile white white	We 1
10.6.3	Test 2	-10 - 12	
	The EPOD shall be operated at 600 ±10% rated	at at all the	N/A
	current in a draught-free environment.	ment whith whith whith	-mm.
	interrupt the load ourrent within 5 o		At 1
<u>v sv</u>	Interrupt the load current within 5 S.	the set set	NI/A
	tost Tosts 1 and 2 of Table 2 shall be repeated	man when all a	IN/A
	and the device shall comply with the specified	i de de	st st
	requirements of the tests	to the stress with an	- NOL
10.7	Over-temperature protection (abnormal operation)	we we an w	
10.7	The over-temperature protection test is		N/A
	conducted only on those EPODs incorporating a	there while make which	10 Martin
	reeling or coiling arrangement and not	m. m. m. r.	
	incorporating an interlock that would prevent the	a at at at	55 5
	energizing of any outlet facility until the power	TEL NUTL WITH WALK	2 m an
	supply cord is fully extended.	200 200	1 1
5	For the purpose of this test, the EPOD shall have	at at all all	N/A
	the power supply cord wound onto the reel or	it with white when w	20
	coiled in layers so as to obtain the most onerous	30	A st
	condition.During the process, thermocouples	- let let set as	e nur
	shall be fixed to the sheath of the central core in	anti whi sum with	20.
	each layer so as to approximately align at the 12		- 10-
	o'closk position of the cable reel or coil after	the street with	and an
	0.5m of the power supply cord has been	a contraction	
	unwound. The device shall be operated at 10 A		11 1
	or rated current, whichever is the greater, and	All all all all a	112 MAL
	rated voltage.	The man	
	when steady conditions have been reached, or at	i it it it.	N/A
	any time during six successive operations of the	et aller aller walk walk	- m
	temperature of the sheath of the power supply	and an an	a de
	cord shall not at any point exceed 100° and	A A A A S	5 - 5 - C
	there shall be neither emission of flames smoke	white inter white white	n n
	or molten material, nor exposure of live parts	211. 24. 2	1
10.9	Abnormal operation	1 1 1 5 5 5 5 T	
10.0	Additional tests for integrally moulded EPODs and	EPODs provided with a	N/A
10.3 	Junction	El ODS plovided with a	
- IN'S'	Integrally moulded EPODs EPODs with multiple	the state state with a	N/A
	cord outlets and EPODs provided with a junction	and the second second	
	shall comply with 'Tests on non-rewireable plug		St St
	and flexible cord' stated in AS/NZS 3112 where	t set site with white	when .
	reference to the 'non-rewireable plug' shall be	me me me	
	taken to be the EPOD.	a at at a	- 55
10.10	Test of cord entry (for devices incorporating a non-	detachable reeling or coiling	N/A
4 4	arrangement)	The the A	1.4
	The test of cord entry involves the withdrawal and	A AT AT ST	N/A
	retraction of the power supply cord in four	Lite white white white	24 - 24
	different directions, four times each, so that a		at at
	total of 16 withdrawals and retractions	at at all all .	ST. NY
20. 1	are carried out.	the the the	-22
	The power supply cord shall be withdrawn to its		N/A
	Tull length through the cord opening at 90° to the	Alt State State Sta	ALL STREET
	I normal entry of the power supply cord. The power	the the same	1997 - 19

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Classes	Deminent Test	Desult Demerly	Vender
Clause	Requirement - Test	Result - Remark	verdict
15	supply cord shall then be left in a free state and	M m m	1- 15
untre un	retracted in the normal manner. This operation shall then be performed another three times.	WALTER WALTER WALTER WA	at white
Tex whitek	This procedure shall be repeated at three more locations around the periphery of the cord entry of the EPOD. The locations shall be progressively spaced at 90°, 180° and 270°, from the first location.	namet united united united	N/A
	On completion of this test the cable sheath shall show no visible damage.	when the state	N/A
0.11 📣	Determination of ignitability and combustion propag	gation	N P
NUTEK WIN	The EPOD shall comply with the requirements for resistance to fire in accordance with AS/NZS 3100 Annex A.	See the appended table	et P.
set se	The glow-wire test temperature 'T' shall be 850℃.	an at at all	P
t autet	for any styrenic material or any material of an undeclared type, the test temperature 'T' shall be 960℃.	at at not app	N/A
NUTER .	Any overcurrent protective device shall be subjected to the glow-wire test with a test temperature of 960℃.	wat whe whe	N/A
0.12	Resistance to heat test	in which which we	N/A
et would	Overload protection devices other than those conforming with AS/NZS 3111 or AS/NZS 60898.1, shall conform with the requirements for resistance to heat in accordance with AS/NZS 3100, Appendix B. The minimum temperature shall be 160°C ±2°C	and a superior white white	N/A
	However, for parts of the overload protection device of thermoplastic material providing supplementary insulation or reinforced insulation, the test shall be made at a temperature of $25^{\circ}C \pm 2^{\circ}C$ plus the maximum temperature rise determined during the tests of Clause 10.6. if this is higher	antifet antifet antifet an	N/A

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Clause	Requirement - Test	Result - Remark	Verdict	

8.3.1 of TABLE: Test No. 1 - Insulation resistance test AS/NZS 3100	whe with	NUTER NUTER	P Milet Mil
Insulation resistance test (500 VDC):	m. m. i		1 1
Between:	required (MΩ)	Resistance (MΩ)	ar mur
a). Between live parts and internal metal parts;	≥1		N/A
b). Between live terminals and the case, frame, or exposed metal parts;	¹ ≥1	>100MΩ	Р
c). between live parts and external metal parts;	⊱≥1	NUTER - NUTER	N/A S
d). Between live parts and a flexible electrode applied to non-conductive parts normally handled in service; and supplementary insulation	≥10	>100MΩ	NUTER PUNCT
e). through supplementary insulation	≥10	>100MΩ	, P ,∱

8.4 of AS/NZS3100TABLE: Test No. 2 - Electric strength test	tet stat with mil	P
Electric strength:	ne m. m. m.	
Between:	Test voltage (V a.c.)	10-11- N
a) between live parts and internal metal parts;	1250	N/A
b) between live parts and the case, frame, or exposed metal parts;	3750	Price Burlis
c) between live parts and external metal parts	3750	N/A
d) between live parts and a flexible electrode applied to non- conductive parts normally handled in service;	3750	Р
e) through supplementary insulation	2500	J P J

8.5 of AS/NZS 3100	TABLE: Test No. 3 - Earthing connection test	NNNL'	wn	in whi	4	P
Test current (1.	5In or 25 A, whichever is the greater):	MUTE	MALTE	White	when	2hr
Measured resis (Required resist	tance (Ω): tance Max. 0.1 Ω)		Set		MUEX	UNLIEK J

10.2	TABLE: Test No. 4 - Cord anchorage test	WALTE WALT WALT	N/A
Pull (N): 65 Torque (Nm):	0.1 (according to Table 8.6 of AS/NZS 3100)	Test res	ylt see west
Displacement o	f flexible cable, mm (required ≤2mm)	at the state	
There shall be r	not appreciable strain at the electrical connections	are when when when	- All -

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AS/NZS 3105			
Clause	Requirement - Test	Result - Remark	Verdict

8.7 of AS/NZS 3100	TABLE: Test No. 5 - Screw threads and fixings	N/A
the state	Test requirements	Test result
Threaded faste the like.	nings of metal in metal or thermosetting plastic or wood, o	TTE - WALTE WALT WALT
- 10 times (scre	ew Ø / torque Nm)	et whitet whitet whitet whitet
- 5 times (screv	vØ/torqueNm)	- The street with white wh
Section area of	conductor (mm ²)	
Threads of the material shall n render the scre	screwed component and its fixing shall not strip, insulating ot crack, nor shall there be any other failure which would wed component non-reusable.	unit - vonite pontie pontie vonit voni

10.3 TABLE: Test No. 6 - temperature	rise -	IEK WILLEK WALT	P
Test current: 10A.a.c.			.÷
Cross sectional area: 1,0 mm ²	the set of	MALTER WALTER	mer- m
Parts	Max. temperature rise (K)	Result (K)	LIFEK MALTE
Terminal L of plug	45	38.1	P
Terminal N of plug	45	35.3	P
Enclosure outside	60	11.6	P
Ambient	Ref.	24.3 ℃	

8.3.2 of TABLE: Test No	o. 7 - Leakage current test	N/A
AS/NZS 3100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	it with the she
Between any pole of supply and	accessible metal parts and metal foil in conta	act with accessible surfaces of
insulating material, connected to	gether:	- 1 1 A S
Type of equipment	Required (mA)	Measured (mA)
Power switch ON:	- THE WIT WALL WALL WALL	m n
Line and enclosure covered with metal foil	0.25	NITER WALTER WALTER WALTER W
Neutral and enclosure covered w metal foil	vith 0.25	Tet mitet mitet whitet wh
Power switch OFF:	with with min white white white	- In - In
Line and enclosure covered with metal foil	0.25	Antifet antifet antifet antifet
Neutral and enclosure covered w metal foil	vith 0.25	Tet stret water water



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AS/NZS 3105				
Clause	Requirement - Test	Result - Remark	Verdict	

8.3.1 of TABLE: Test No. 8 - Insulation resistance tes AS/NZS 3100	it was an		P
Insulation resistance test (500 VDC):	me m	24. 2.	at the
Between:	required (MΩ)	Resistance (MΩ)	NITE - MUL
a). Between live parts and internal metal parts;	≥1		N/A
b). Between live terminals and the case, frame, or exposed metal parts;	≥1	>100MΩ	Р
c). between live parts and external metal parts;	≥1	s = d 1	N/A
d). Between live parts and a flexible electrode applied to non-conductive parts normally handled in service; and supplementary insulation	≥10	>100MΩ	N ^M P M
e). through supplementary insulation	≥10	>100MΩ	P

8.4 of TABLE: Test No. 9 - Electric strength test AS/NZS 3100		Р
Electric strength:	t the the number of	in which w
Between:	Test voltage (V a.c.)	, T
a) between live parts and internal metal parts;	1250	N/A
b) between live parts and the case, frame, or exposed metal parts;	3750	JAP P. JA
c) between live parts and external metal parts	3750	N/A
d) between live parts and a flexible electrode applied to non-conductive parts normally handled in service;	3750	P
e) through supplementary insulation	2500	P-

10.4.2 TABLE: Test No. 10 - Drop test	at the state state of
Requirement	Test result
After 5 times of drops, the sample shall not be damaged to such an extent the standard test finger can touch live parts.	at No damage, no hazard

10.4.3	TABLE: Test No. 10 - Impact hammer test	s. when when	P
Requirement (with an impact	energy 0.5+0.05N.m)	Testre	esult
After the test, th this standard, a	e specimen shall show no damage within the meaning of nd it shall not be possible to touch live parts.	No damage,	no hazard

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Clause	Requirement - Test	Result - Remark	Verdict	

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10.5 TABLE: Test No. 11 – overload test	e. me. me.	Shi w	Р
Test current: 2.875	* .A* 58	STEEL NITE .	men - me
Cross sectional area: N/A		20. 20. 1	
Parts	Max. temperature rise (K)	Result (K)	ster <mark>vi</mark> niste A stek
Enclosure outside	95	16.0	NP Y
Ambient	te to a	19.4 ℃	P
8.3.1 of TABLE: Test No. 15 - Insulation resistance tes	ste net net	et waiter waiter	un ^o P un
Insulation resistance test (500 VDC):		t it	1 5
Between:	required (MΩ)	Resistance (MΩ)	1
a). Between live parts and internal metal parts;	≥1	17 18 3	1 P.S.
b). Between live terminals and the case, frame, or exposed metal parts;	≥1	>100ΜΩ	Р
c). between live parts and external metal parts;	≥10 .	set - ster ate	Р
d). Between live parts and a flexible electrode applied to non-conductive parts normally handled in service; and supplementary insulation	≥10	>100MΩ	N/A
e). through supplementary insulation	≥10	>100MΩ	N/A

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8.4 of AS/NZS TABLE: Test No. 16 - Electric strength test 3100	at the test stat with	P P
Electric strength:	when the sale of	
Between:	Test voltage (V a.c.)	<u></u>
a). Between live parts and internal metal parts;	1250	10 P 10
b). Between live terminals and the case, frame, or exposed metal parts;	3750	NUTE P NIT

22.16 of AS/NZS 60335.1	TABLE: Test No. 19 - Automatic cord reels	THE WAITER WALTE WALT W	N/A
Test requirement	S mile unit units and	Test res	ult set
The test is carrie minute or at the this is less. After	ed out 6 000 times at a rate of approximately 30 maximum rate allowed by the construction of the test, the cord and cord reel are inspected.) times per	NU V
Electric strength	test	white white white white	201 20.
Between:	TEV MITE, MAIL MAY WAY WAY	Test voltage (V a.c.)	
Between the cor and metal foil wr	nductors of the cord connected together apped around the cord.	NUTE WAIT WILL WALL &	1 - 5h



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	AS/NZS 3105	me me me me	a st
Clause	Requirement - Test	Result - Remark	Verdict

10.11	TABLI	E: Test No. 20 - C	Blow wire test						Р
Tested par	ts	Test temperature (°C)	Ignition of tissue paper?	Scor pine bc	ching of ewood eard?	Visib e flame ?	۲ ۲ ۱۹۹۳ ۱۹۹۲ - ۲	E withi rem gl	xtinguish in 30 s after ioval of the ow wire?
Plastic of F	Plug	850	No shi	mar	No	No	20.		0s
Plastic enclo	osure	650	No	1th	No	No	J.C.	MAG	0s
Needle-flame	test: 🧷	- Jet Jet						4	N/A
Tested parts	white TEX	Test flame 30s ±1s	Ignition of the spe layer or wrapping t	cified issue?	Visible f	lame?	Ex 30s the	xtingu after e need	ish within removal of dle flame?
- me a	1. 1	-	1 10- 5	1. S	E alle	MULT	with	2	the me

10.12	10.12 TABLE: Test No. 22 - Resistance to heat test					
Tested parts	Test temperature (°C)	impression diameter (mm)	allowed impression diameter (mm)			
nute white he	10° 12 19°		2,0 ,01			

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the set	AS/NZS 3100	Danis and an an	In In
Clause	Requirement - Test	Result - Remark	Verdict

3 .	DESIGN AND CONSTRUCTION	s at at at	Р
3.1	General	with our only on all	~Р </td
NUTEK W	All equipment shall comply with the provisions of this Standard in respect of selection of materials, design, and construction, and with the tests specified herein.	MITER WAITER WAITER WAITER WAIT	P
FET WALL	The selection and application of materials, and the design and construction of all equipment shall be such as will ensure, as far as is reasonably possible and	Set wained wained wather was	P
an the second	economically practicable, that when the equipment is standing, supported, or fixed in a normal position and operating in a normal manner, and account being taken of ordinary wear and tear and other depreciating factors that can reasonably be anticipated, no person will be exposed to risk of injury or electric shock, and there will be no unwarrantable risk of fire either	suntret untret untret untret untret	P
NUTEX	(a) through the functioning of the equipment under conditions required by its use at rated loading; or	which which will be an and the second	N/A
MITEK N	(b) Through the mechanical or electrical failure of any material or of the equipment itself or of any part thereof.	white white and an and and	P
set whit	This Standard does not, in general, take into account the use of equipment by young children or infirm persons without supervision, or playing with the equipment by young children.	TE WATTE WATTER WATTER	P
3.2 🗸	Equipment to be suitable for conditions of use	i she she she she	P
ma	All equipment shall be of a type, design, and construction that will enable it to be installed in	MALTE WALL WALL WALL	Ρ
MALTER S	accordance with the National Wiring Rules and will provide protection against mechanical and electrical failure which can reasonably be expected to result from mechanical failure, or from exposure to weather, water or dampness, corrosive fumes, dust, steam, oil, high temperature or any other deleterious influences to which it will be exposed under the conditions of its use.	WALTER WALTER WALTER WALTER WALTER	N/A
SALLER S	Non-hygroscopic insulating materials shall be used where required in individual Standards. In other cases, hygroscopic materials may be used for insulation, provided that the materials are suitably impregnated or treated if liable to exposure to dampness. The position and fixing of the insulation shall be such as will maintain creepage distances and clearances	WALTER WALTER WALTER WALTER WALTER	N/A
at white	during the normal life of the equipment. In general, timber shall not be acceptable as an insulating	et multit waitet waitet wai	N/A
MUTER	material except that it may be recognized in special cases where a particular grade is used	THE THE NUT WITH WITH	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	a she she she she will write	which will all all	
1. Contraction of the second s	for a specific purpose.	a de de d	15 - SV
3.3	Selection of materials and parts	with all and and	JIP V
NUTER WALTER	Any material or part used in, or in the construction of, any equipment shall comply with any specific requirements set out in respect thereto in this Standard or in an individual Approval and test specification dealing with such materials or parts.	NUTER WALTER WALTER WALTER	P TEX MALT
whitek wh	Where any standard prescribes,for or in any equipment, the use of a particular kind of material or part, a material or part of another kind may be used instead, provided that its use will not introduce any risk of electric shock or fire and will not render the equipment less resistant to mechanical or electrical	whitek whitek whitek wh	N/A
THE MULT	failure than would the use of a material or part of the kind prescribed.	LIEK MUTER WALTER WALTER	P
3.4	Selection of components	, sta	P
WALTER W	Any component part that is used in or in the construction of any equipment and which is depended upon for safety shall comply with the appropriate requirements of any relevant individual Approval and test specification.	at white white white white	PL PL
3.5	Workmanship		P
Set white	All fabrication and construction shall be carried out in a thoroughly workmanlike fashion complying with the appropriate requirements of this Standard and the generally accepted principles of sound and safe practice.	LEE WALTE WALTER	N P M
3.6	Fuses	i state state	N/A
3.7	Identification of wiring	with other with with	N/A
3.8	Regulating devices and switches	The second	N/A
3.8.1	Fixing and mounting	at at at a	N/A
3.8.2	Visual indications of positions	when when when when	P
3.8.3	Voltage and current limitation	the state	P
3.8.4	Switches for transportable machinery	the star star when	N/A
3.8.5	Switches	her when the second	N/A
3.8.6	Electronic regulating devices and switches	i it it it	N/A
3.9	Socket-outlets	the state make which we	N/A
Tek	Socket-outlets shall not be permitted in equipment flexible cord except in the following circumstances:	intended for connection by	at Jut
3.10	Equipment intended to be supported by contacts of socket-outlets	whit whit whit wh	N P
untres whi	Equipment having integral pins for insertion into socket outlets shall comply with Appendix J of AS/NZS 3112.	comply with Appendix J	Sunti P
3.11	Static charge in equipment	at all the site	N/A
3.12	Control methods	in the she she	P
3.13	Stability	and at	N/A
white .	Freestanding equipment intended to be used on a surface such as a floor or a table shall have adequate stability and shall be tested in accordance with Clause 8 14	White white white w	N/A

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Clause	Requirement - Test	Result - Remark	Verdict	
3 1/	Equipment connected to supply by a plug	Mr. Mr. Wr.	D D	
	Equipment intended to be connected to the supply mains by means of a plug shall be constructed so that in normal use there is no risk of electric shock from charged capacitors when the pins of the plug are touched.	MALTER MALTER MALTER MALTER	AND P	
<u>er jr</u>	The equipment is supplied at rated voltage.	the fit fit	<u> </u>	
2 1 5	I he voltage shall not exceed 34 V.	2 mer aller aller		
	Capacitors Capacitors in appliances or accessories likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing shall comply with IEC 60384- 14. If they have to be tested, they are tested in accordance with Annex G.	whitet whitet whitet white	N/A N/A	
3.16 (A1:2017)	Varistors	tret white white white	N/A	
NUTER NUT	Varistors connected to live parts incorporated in equipment shall comply with the following requirements. NOTE Varistors connected to live parts are those connected between phases (between actives and betweenactives and neutral) and those connected between phases and earth (actives to earth) and neutral to earth	et wouret wouret wouret wouret	N/A	
EK WALTER	a). MOVs shall comply with IEC 61051-2. The characteristics as defined within IEC 61051-1 for any such varistor shall be at least:	TE WALTER WILL'S WALTER	N/A	
WALTER	Lower category temperature: -10°C; Duration 2 h (Test A IEC 60068-2-1);	A NUTER MUTER MAILTER W	N/A	
Set .	Upper category temperature: +85°C; Duration 1 000 h (Test B IEC 60068-2-2);	at all alt of	N/A	
an an	Damp heat steady state severity: Duration 21 days; Temperature (40 \pm 2) °C; Relative Humidity (85 \pm 3)% (Test Cab IEC 60068-2-78);	white white white white	N/A	
	Over voltage category II.	the me me m	N/A	
WALTER	b). MOVs shall have a maximum continuous voltage rating of:	fet suret muret sources	N/A	
JEt .	at least 1.25 times the rated voltage of the accessory or;	when the set	N/A	
we w	at least 1.25 times the upper voltage of the rated voltage range.	watt and and we	N/A	
ner whi	c). The body of the varistor shall have a flammability classification of at least V-1 in accordance with IEC 60695-11-10.	V-0	N/A	
white	d). Accessories shall be protected against sudden failure of MOVs by:	LIE MALIE WALTE WALTE	N/A	
	a fuse having a current rating not exceeding 10 A and a breaking capacity of not less than 1500 A. The fuse being connected in series with the varistor; or	whitek whitek whitek w	N/A	
16. 11.	a protective device connected in series with the	N 5 5 N	N/A	

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	AS/NZS 3100	a man man	
Clause	Requirement - Test	Result - Remark	Verdic
	Line internet in device incriter	m. m. n. r.	1 1
	variator. The protective device variator	at the set of	- NITE
	combination shall be subjected to a short-circuit	ment when whe some	20
	issuit test is carried out by connecting the	She was a start	1th
	circuit test is carried out by connecting the	let set set set site	No.
	equipment to a supply source at the rated	and water water with	- 20
	voltage of the equipment. If the equipment has a	the state	de .
	rated voltage range the supply source shall be	all all all all all all a	an an
	The supply source shall have a prospective	a mer an an a	
	short surrent of at least 1500 A at the test	. I A A	8 - K
	short-current of at least 1500 A at the test	t ster site with an	M
	voltage. The circuit can be closed at any angle of	The and the second	
- 1 ⁴ - 1	ine vollage	at at at a	NI/A
	failure of any variator. Compliance is checked by	still intit with white	IN/A
	the test of clause 8 15 0	an an a	A
S. S.	f) A variator shall not be connected to protective	the state of the	NI/A
	arth except in series with a Cas Discharge	stre white white white	IN/A
	Tube (CDT) provided that the CDT complies	and the second	at 1
	with the following:clause	of the star star a	Ser and
70. 0	the electric strength test for basic insulation: and	Mr. Mr. Mr. W.	Ν/Δ
ter .	the external CLEARANCE and CREEPAGE		N/A
	DISTANCE requirements for basic insulation	THE STEP MIT WITH	
	Note: Communication and Telecommunications	We The 2n and	
	(ICT) components in equipment such as	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5
	telephone, data and TV aerial connections, with	and and a second second	an 1
	varistors connected only to the protective earth.		A
	the requirements for varistors of the relevant ITC		J. 55 6
	standard apply.	The ment with a start of	1. 20.
	Compliance is checked by inspection.		N/A
	measurement and test.	t the state with my	St. Martin
3.17	Incorporated power supplies	- mr m m	N/A
(A2:2019)	at the star which was not	1 1 1 1	\$ _A*
3.17.1	General	Considered in end product.	N/A
	Incorporated power supplies supplying Universal	the the second	N/A
	Serial Bus (USB) outlets shall comply with	at at at set	STE .
	one of the following:	with mine and and	the all
	(a)the appropriate part of the AS/NZ 61558		N/A
	series of standards; or	at let the the	STE IN
	(b)AS/NZS 60950.1:2015; or	when when when when	20
st	(c)AS/NZS 62368.1:2017.		1 1
3.17.2 (and	Single Fault Conditions	- THE STREE STREETS	N/A
A3:2020 CL	a st set set with mite white	me me me m	
3.17.2)	In addition to conforming with $2.47.4$ (b) or (c)	the state of the state	N1/A
	for incorporated power curplice under size	atten with unit whit	N/A
	foult conditions, the output values of the second	W. W. W. W.	4
	aun conditions, the output voltage of the power	a at at at	550
	Supply shall not have increased by more than 3	LIE MILL WALL WALL V	3 - 20
	whichever is higher	20. 21.	14 1
	Incorporated power supplies that can deliver a		NI/A
	range of different nominal output voltages via	in the sure of	IN/A
	penetiation with the connected device shall be		× .1
	tested at each of the output voltages that each he	all all are are	SILL.
	I lested at each of the output voltages that can be	and the second second	20

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t	AS/NZS 3100	24 2. 2	-
Clause	Requirement - Test	Result - Remark	Verdict
	negotiated with the connected device	The the second	1 15
MALTE WAT	The output voltages under single fault conditions are measured with the output supply unloaded. Transient voltages of less than 1s are ignored provided the transient voltages are below 120 V Peak	ALTER WALTER WALTER WALTER	N/A
3.17.3	Temperature Consideration	L A A A	N/A
Whitek w	In addition to conforming to 3.17.1 (a), (b) or (c), the assembly (of an electrical accessory and the incorporated power supply) shall conform to the following temperature rise test:	WALLEY WALLEY WALLEY W	N/A
ntifet white	-Tested in accordance with the relevant end product standard with the loads applied to the power supply and the end product connected simultaneously. The load for the power supply is its rated load.	thet whitet whitet white	N/A
+ whitek	Temperature limits of this standard or the relevant end product standard shall not be exceeded, whichever is more unfavourable	Tet stret sufet	N/A
3.17.4 (and A3 :2020 CL 3.17.4)	Over voltage category	with with white and	N/A
ALTER WALTER	a.Incorporated power supplies in equipment in the installation wiring shall comply as overvoltage Category III equipment in accordance with relevant Power Supply Standards. For example socket outlets and switch panels. b.Incorporated power supplies in all other equipment supplied from the installation wiring shall comply as overvoltage Category II equipment in accordance with relevant Power Supply Standards.	antitet wattet wattet	N/A
3.17.5	Capacitors Bridging Reinforced Insulation: For overvoltage Category II accessories, accessible conductive parts separated by double or reinforced insulation from live parts may be bridged by a single Y1 capacitor with qualification approval in accordance with IEC 60384-14 (Clause 3.4.2 - Qualification Approval)	Notifet whitet white	N/A N/A
sure white	For overvoltage Category III equipment and overvoltage Category II equipment other than accessories, if double or reinforced insulation separating accessible conductive parts from live parts is bridged by capacitors, at least two Y1 capacitors shall be used.	antife white white white	N/A
3.17.6	Determination of Ignitibility and Combustion Propagation	with the st	N/A
whitek whi	Incorporated power supplies shall conform to the Ignitibility and Combustion Propagation requirements of this standard and the relevant end product standard whichever is more	WALTER WALTER WALTER WA	N/A

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AS/NZS 3100					
Clause	Requirement - Test	Result - Remark	Verdict		

1. Str	onerous.	s at at a	6- 5 ⁶⁻ .
4.0	PROTECTION AGAINST MECHANICAL AND EL	ECTRICAL FAILURE	11 P 11
4.1	Prevention of short-circuit and arcing	m. m. m.	Р
4.1.1	General	A A A A	. S P . S
SEX WALTE	All terminals, contacts and other live parts shall be so arranged that short-circuit or destructive arcing cannot take place, and that no part other than an easily replaceable contact can be appreciably damaged by an	Tet white white white	P P
white	Holes for fixing screws shall be so placed that no short- circuit or arcing can occur when the screws are in	wontiet wontiet wontiet won	N/A
4.1.2	Segregation of internal wiring	The star star with	N/A
strek white	Where extra-low voltage and low voltage equipment wiring is within the one enclosure and the extra-low voltage wiring or parts connected thereto are accessible to the standard test finger, either of the following requirements or a combination thereof, shall	and white with an tet	N/A
would v	(a) The extra-low voltage wiring and associated connections shall be effectively separated from low voltage wiring by means of rigidly fixed screens or	white white white white	N/A
MUTER NIN	(b) The extra-low voltage wiring and exposed parts shall be insulated for the highest voltage and so arranged or fixed that bare extra-low voltage parts	at white white	N/A
tt	Parts of one voltage system provided with basic insulation shall not come into contact with live parts of other systems.	it whit whit whit y	N/A
4.1.3	Creepage distances and clearances for appliances	and the second second	Р
Jiet .	Creepage distances and clearances shall be not less than the values in shown in Table 4.1.	at at at at	P
4.1.4	Additional requirements for appliances	min whe whe will	N/A
4.1.4.1	General	the state of the s	N/A
the mut	The requirements in Clauses 4.1.4.2 to 4.1.4.5 are	NUTER MALTER MALTER MALTER	N/A
4.1.4.2	Printed circuit boards	the state	N/A <
Mar	Conductive patterns of printed circuit boards; permitted	A MALTER WALLE WALL W	N/A
MALTER	Further reduction permitted where appliance complies	- Jet allet allet and	N/A
4.1.4.3	Distances through insulation	me m m	N/A
untret wi	The distance through insulation shall be not less than 1.0	street white white white	N/A
4.1.4.4	Insulation in sheet form	m. m. s.	N/A
LIET WALT	The requirement in Clause 4.1.4.3 does not apply in thin sheet	y if the insulation is applied	NUTE ONLY
at whitek	 (a) for supplementary insulation, consists of at least two layers and each of the layers withstands the electric strength test of Clause 8.4 for supplementary insulation; 	Number of layers:	N/A
White a	(b) for reinforced insulation, consists of at least three layers and any two layers together	Number of layers:	N/A

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	AS/NZS 3100		
Clause	Requirement - Test	Result - Remark	Verdict
UNLIEK	withstand the electric strength test of Clause 8.4 for reinforced insulation.	All and an and	ret whitek a
4.1.4.5	Supplementary insulation and reinforced insulation	W. W. W. W.	N/A
NUTER WALT	The requirement in Clause 4.1.4.3 does not apply in reinforced	f the supplementary or	UNLIFE- UNI
TEX WALTER	(a) The maximum temperature rise determined during the tests of Clause 8.15 does not exceed the value	A NUTER MUTER WALTER	N/A
WALTER D	(b) The insulation, after having been conditioned as specified, withstands the electric strength test of Clause 8.4 both at the temperature occurring in the oven and	WALTER WALTER WALTER MA	N/A
4.2	Mechanical protection of conductors and cables	at at at is	N/A
4.2.1	General	with white white white	N/A
LIEK WALTE	All conductors and cables shall be of such a type or be so located or protected that mechanical or electrical failure is not likely to occur.	et white whitet white	N/A
4.2.2	Adjacent material	- THE SE SIT .	N/A
	All material immediately adjacent to or in contact with a conductor shall not cause abrasion.	when we we we	N/A
4.2.3	Passage for conductors	the ster with on	N/A
minet whi	Where conductors and cables (including flexible cables and flexible cords) are to be threaded through tubes or channels or passed through openings formed in metal work, the tubes, channels or openings shall be of ample size.	unt soll should be	N/A
4.2.4	Protection near moving parts	and the set	N/A
* whitek	Equipment wiring near moving parts shall be so located or arranged as to guard against the possibility	wifet wifet whifet w	N/A
JEK .	of abrasion of the conductor, or its insulation, braiding or sheathing.	so at let 5	N/A
4.2.5	Unprotected conductors with fibrous insulation	and when when when	N/A **
NITEX WALT	Fibrous insulated cables, which are defined as 'unprotected' in AS 3158 shall be used only where they can be installed without damage.	Tex maret antifet anites	N/A
4.3	Terminals and connecting facilities for supply conductors	t let tet the	N/A
4.3.1	Connecting facilities required	when when when a	N/A
whitek N	All equipment shall be provided with facilities for the connection of supply conductors in one of the following forms	WALTER WALTER WALTER WA	IT & WALTER
de la	(a) Terminals.	· · · · ·	N/A
ne in	(b) Contact pins or spring contacts.	att att all all	N/A ST
LIEK WALTE	(c) Connection of the conductors, flexible cord or flexible cable to internal leads, terminals, lugs or the like, by crimping or other similar suitable devices	et whilet whilet whilet	N/A
A WALTER	Twist-on connectors with suitable metal inserts may be used for live conductors but shall not be used for earthing connections.	Whitek whitek whitek w	N/A
55	(d) Soldering may be used	to the the to	N/A
m. m	(i) for Type X attachments in equipment having	alter out when when	N/A

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Clause	Requirement - Test	Result - Remark	Verdic
~ ~ ~ ~	the start set set and and	mr mr m r	
<u> </u>	a rated input not exceeding 250 W; and	the state of the s	
12 - 2h	(ii) for Type Y and Type Z attachments;	and the second second	N/A
	and shall comply with Clause 4.3.5.	<u>v 3</u>	N/A
	No portable equipment shall be provided with		N/A
	facilities for the connection of more than one		- ku
	supply flexible cord, unless permitted in an		it .
	Individual Approval and test specification.		NI(A
	Any equipment intended for permanent		N/A
	terminale appreciation to fixed withing shall be provided with		10 10
	Design and construction of terminols		NI/A
5.Z	All terminals shall be inherently corrector	mer all an ar	
	All terminals shall be innerently corrosion-		N/A
	presistant and shall be so designed and		aller :
	proportioned that a connection made thereto will		
	of use		55
- w	All terminals shall be so designed that the	the second second	
	conductors connected thereto can be rigidly and		
	effectively clamped between metal surfaces and		Se
	Ishall comply with Clause 4.6.1		$\eta_{r} = -a_{n}$
A	Terminals shall be either securely fixed in	- 5 ⁰	N/A
	position within a terminal box or enclosure or so		
	arranged that movement of the connections is		20
	limited by location		s it
Sec. Se	Screws of tunnel-type terminals and other	A STAND	N/A
	clamping devices, which are intended to clamp		
	directly onto		100
- In	conductors, shall be so shaped and finished that	and the state of the	N/A
	strands of the conductor are not likely to be		
	severed.		10 5
an 1	Aluminium conductors shall not be clamped	the shirt when a	N/A
	directly by screws in tunnel-type terminals other		1
	than special types.		8 50
in the	Indirect clamping by means of suitable ferrules,	with a star with a share	N/A
	plates and the like shall be acceptable.		
97 J.	In general, a self-tapping screw shall not be	at at the th	N/A
	used as a terminal screw for conductors.		the a
L	Die-cast terminal blocks made from zinc-base		N/A
S. S. S.	alloy shall not be used.	t let let set	Jan Int
2m	Terminals provided for direct connection to fixed	when when any a	N/A
	wiring shall be so designed and located as to		1 A
	permit the supply cables to be connected in		in the
$h_0 = -a_0$	accordance with one of the following methods:	intra when when an	120
	(a) Soldered into a cable-socket of appropriate		N/A
an in	size.	and the star with	- me
	(b) Clamped in a terminal or binding post.	in the she	N/A
	(c) Terminated in an approved solderless tag or		N/A
- Ale	terminating device.	et the strange	W. Mr.
3.3	Location of terminals	and an an	N/A
S.C.	The live terminals shall be within a terminal box	t at at	N/A
and a	or an enclosure, and shall be grouped together.	all all and a	n m
	Earthing terminal, if any, shall be either within	The In In	N/A
	the terminal box or enclosure or on the external		50 50
	surface of the equipment.		- Str

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20	AS/NZS 3100		
Clause	Requirement - Test	Result - Remark	Verdict
WALTER WAL	In equipment, except for those which have Type Y or Type Z attachment, the terminal box or enclosure shall be such as will allow access to the terminals and replacement of the flexible cord without dismantling the equipment.	NOLITEX WOLTEX WOLTEX WOLTE	N/A
4.3.4	Terminal arrangements	- m	N/A
SEE WALTER	Except for equipment that is provided with a Type Y or Type Z attachment, the following provisions shall apply:		N/A
whitek wh	(a) The arrangement of the terminals shall be such as will allow the supply flexible cord or flexible cable to be disconnected and replaced without removing any internal wiring or connections from the terminals.	whilet whilet whilet wh	N/A
LIFEK WALTS	(b) The clamping of the supply conductor at a terminal shall be independent of the clamping of any internal lead at that terminal.	Tek mitek whitek whitek	N/A
et whitek	(c) Screwless terminals that require special preparation of the conductors shall not be acceptable.	and the south and the second	N/A
4.3.5 🦽	Soldered connections	i i de	– N/A
white w	Where facilities for soldered connections are provided, they shall comply with the following requirements:	white white white whi	N/A
int mit	(a) The soldering terminals, lugs or the like shall be so designed that the conductors are held in position independently of the soldering.	and and and	N/A
t set	(b) They shall be so located and arranged as to minimize the likelihood of insulation being bridged by excess solder.	WALTE WALT WALT	N/A
4.3.6	Prevention of slipping or spreading of conductors	White White white wh	N/A
waller wa	All terminals shall be of a form that will prevent slipping or spreading of conductors or conductor strands.		N/A
AND	Except for equipment with Type Y or Type Z attachments, a device shall not be acceptable as a means of preventing spreading of conductor strands on the terminals of portable equipment, unless it can be readily re-used when connection of the supply flexible cord is renewed.	at whitek whitek whitek	N/A
Sur an	The requirement is not applicable to connections made in equipment with Type Y or Type Z attachment.	white white white wh	N/A
4.3.7	Earthing conductors	net internet with	N/A
Tet Mute	Where the equipment includes an earthing terminal, provision shall be made to ensure that when correctly wired the connection is made without the earthing conductor of the flexible cord being held or pressed against live terminals or other live parts.	tet antiet antiet antiet	N/A
4.3.8	Conductors and terminals not to be stressed	a de de	N/A
lo. Va.	All conductors shall be so supported and	APP OF NOT NO	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
1	at at all all all main wait	me m m n	
	connected that there will be no undue mechanical stress on either the conductors or the terminals to which they are connected.		JE WALTER
4.3.9	Temperature at terminals	1 1 1 1 1	N/A
ner wind set windstet	The terminals shall be so placed, arranged and ventilated that any conductors or cables will not be liable to be exposed to temperatures in excess of those permissible for the conductor.	A NUTER MUTER MOUTER	N/A
	Where temperature conditions are such as will require the use of connecting cables of heat- resisting type, prominent marking shall be provided adjacent to the terminals to indicate the type of connecting cable necessary.		N/A
at white	For terminals for the connection of supply flexible cords to portable equipment, the temperature rises, in general, shall not exceed 50 °C. (to allow the connection of flexible cords having maximum operating temperature of 75° C) except under the circumstances covered by Footnote h to Table 5.7, which allows a higher operating temperature.	ALTER WALTER WALTER WALTER	N/A
4.3.10	Access to terminal devices	and the second	N/A
WALL W	Terminal devices shall not be accessible without the aid of a tool, even if their live parts are not accessible.		N/A
4.4	Flexible cord and connecting plug	At I A A	N/A S
4.4.1	When required	3 44 44	N/A
TEX WALTE	Any portable equipment having a rating not exceeding 20 A shall be provided with a supply flexible cord.		N/A
white	Such flexible cord need not be provided for equipment intended for direct insertion into a socket-outlet, or incorporating a Group 3 appliance inlet, or a Group 2 appliance inlet.	Whitek whitek whitek w	N/A
me m	The flexible cord shall	with mile which which	_⊲°N/A
	(a) comply with AS/NZS 3191;	h the second	N/A
iliter whit	(b) unless varied in the individual Approval and test specification, have a length of not less than	Tet white white white	N/A
et ut	(i) 0.9 m for table top or bench mounted equipment; or	t let set set	N/A
20	(ii) 1.8 m for other equipment;	were the star of	N/A
NUTER	(c) unless varied in the individual Approval and test specification, be not less than	the set with a	N/A
10 - 1	(i) if elastomer insulated, ordinary duty sheathed flexible cord; or	White white white white	N/A
mer an	(ii) if polyvinyl chloride insulated	the ster strand	N/A N
to d	(A) for equipment having a mass not exceeding 3 kg, light duty sheathed flexible cord; or	n with the set	N/A
in white	(B) for equipment having a mass exceeding 3 kg, ordinary duty sheathed flexible cord;	WALTE WALTE WALT	N/A
5 J.	(d) be of the appropriate current rating;	s at at	N/A
WATER N	(e) be correctly wired to a plug of appropriate type complying with AS/NZS 3112 or alternatively, for equipment with a rating not exceeding 600 W, with a plug socket adaptor complying with AS/NZS	white white white w	N/A

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			$\mathbf{V}_{\mathbf{i}}$	1
		-	1	6.5
		-		

Clause	Requirement - Test	Result - Remark	Verdict
~	the set set set set and and	ally all an a	
white whi	(f) be correctly connected to a connector of appropriate type if the equipment incorporates an appliance inlet or be correctly connected to terminals of the equipment:	WALTER WALTER WALTER WAL	N/A
et et	(g) incorporate an earthing conductor where the equipment has earthing facilities; and	the set of the	N/A
whitek	(h) not incorporate an earthing conductor where the equipment is of the double-insulated type. Power supply cords shall have a nominal cross- sectional area not less than those given in Table 4.4.	white white white where	N/A
4.4.2	Warning notice	1 1 1 5	N/A
alitek walif	Any equipment with a current rating above 10 A but not exceeding 20 A, and which is intended for connection by flexible cord and plug to a socket- outlet, shall have a prominent and durable notice affixed.	and white white white	N/A
4.5	Supply connection and external flexible cables and cords	A WALLEY WALLEY WALLEY	N/A
4.5.1	General	in the state	N/A
white w	Where a supply flexible cord or supply flexible cable is to be connected directly to equipment the facilities shall, in addition to complying with Clause 4.3, comply with this Clause.	WAITER WAITER WAITE WAT	N/A
at d	Power supply cords shall be assembled with the equipment by one of the following methods:		
in an	(a) Type X attachment.	the state with a state	N/A
	(b) Type Y attachment.	<u>-10- 2- 2-</u>	N/A
5 56	(c) Type Z attachment.	the state of the	N/A
WALTER ON	For equipment not covered by an individual Approval and test specification, Type Y or Type Z attachments may be provided in the following circumstances:	white white white whi	e warret
LITEX WALT	(i) Where sealing or encapsulation provides an essential safety feature such as waterproofing or avoidance of tampering with adjustments.	in the milet muset white	N/A
EX WALTER	(ii) In all other cases where the replacement of the flexible cord or flexible cable by the user of the equipment is not intended or is unlikely.	at millet whilet whilet	N/A
4.5.2	Provision for entry of flexible cord		N/A
where w	The equipment shall include provision for entry of the flexible cord or cable within its protective covering or sheath.	WALTER WALTER WALTER WA	N/A
4.5.3	Cord anchorage	the star star with	N/A
inet white	All equipment intended for connection by means of a flexible cord or flexible cable shall be provided with a saddle, grip, tortuous path or other suitable means and shall comply with the test specified in Clause 8.6.	Let wattet wattet wattet	N/A
WALL	Where cord anchorage is obtained by means of a screw bearing on the sheathing of a flexible cord, the assembly shall be such that in no way will it damage	WALTE WALTE WALTER W	N/A

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	AS/NZS 3100	me me me me	
Clause	Requirement - Test	Result - Remark	Verdict
	i it it let get with which	me me m	
INLIEK W	the flexible cord when correctly applied nor shall it loosen in service. The screw shall	Tet stet whet white	N/A
	(a) be made of suitable insulating material;	with the state of the	N/A
NUTER WAL	(b) have a nominal diameter not less than that of the aperture for the flexible cord; and	Tet the wifet wifet	N/A
10 10	(c) be so shaped as not to damage the flexible	with the set	N/A
	The cord anchorage shall be capable of accommodating a flexible cord of size and type appropriate to the equipment.	White white whee you	N/A
4.5.4	Protection of supply flexible cord	inter when when when	N/A
wherek wh	Porcelain beads, heat-resistant sleeving, tubing, taping or the like on supply flexible cords shall not be accepted as providing insulation or protection.	MITER WAITER WAITER WAITER	N/A
LITEK WALT	The equipment shall include provision for guarding the supply flexible cord against damage from internal moving parts.	TEX WAITER WAITER WAITER	N/A
4.5.5	Interconnection cables and cords	the state	N/A
white	Facilities for the connection of detachable and non- detachable interconnection flexible cables or cords shall comply with the requirements for the supply cable or cord, except that	white white white white wh	N/A
nutet and	(a) Connectors and appliance inlets used for the interconnection flexible cable or cord shall not be interchangeable.	when when we we with	N/A
JEK WALTE	(b) The cross-sectional area of the conductors of the interconnection flexible cable or cord is determined on the basis of the maximum current.	en in sint with a	N/A
4.6	Joints and connections	me me a	Р
461	Joints and insulation	s it it i	P
1.0.1	Insulation is required on joints or connections the	The strength with the	P
whitek w	Joints and connections shall utilize materials and forms of construction that will avoid deterioration or loss of	with with white white	PL WILLIN
ULITEX WAL	Insulating materials which may shrink or deform in service such as to cause loss of contact pressure not be used;	Tet intret intret white	N/A
de al	- suitably treated or proofed to prevent such		N/A
Str white	 metallic parts have sufficient resiliency to compensate for such shrinkage or deformation and to retain 	at wonther wonther wonther won	N/A
white a	Stranded conductors shall not be consolidated by lead- tin soldering where they are subject to contact pressure,	watter white watter white	N/A
mer m	clamping means is so designed that there is no risk of bad contact due to cold flow of the solder.	NITER WALTER WALTE WALTE	N/A S
4.6.2	Soldered joints	i i it it	_ <i>∕</i> /−P≾
the wat	Soldered joints shall be made without the use of fluxes containing corrosive substances.	Ter white white white y	P.M
4.6.3	Limitations of soldered joints	the state of the s	🖉 N/A 🖉
Whitek w	Soft-soldered joints and soft soldering shall not be used for the connection of conductors where the temperature of the joint is likely to exceed 120 °C in normal operation.	WALTER WALTER WALTER WALTER	N/A

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	AS/NZS 3100		
Clause	Requirement - Test	Result - Remark	Verdict
4.6.4	Leinte and connections in lighting fitting	The she was a	NI/A
4.0.4	No joint or connection shall be made within a lighting fitting except in a space incorporated for	WHITE WALTER WALTER WAL	N/A N/A
165	Ine purpose.	the star star star	Ν/Δ
	The attachment of conductors by crimped or similar forms of solderless pressure joints shall be made only with the use of the appropriate attaching tools.	Set whet whet whet	N/A
4.6.6	Cascading of adaptors	20 - 22	N/A
WALTE V	Two-way quick-connect tab and receptacle adaptors and the like shall not be cascaded.	t source unifer any ret an	N/A
4./	Strength of screw threads and fixings		P.
4.0 / 0	Direct connection to fixed wiring	The star with an	N/A
4.9 4.10	Mechanical strength	and the to a	P
L'IL VILLE	Equipment shall have adequate mechanical strength.	LIST MATER MALTER MATER	V NUL PUNL
et muret	Compliance is checked by inspection and, if necessary, by the test of Clause 8.8.	et ret ret wet	N THE P THE
4.11	Degree of protection (IP classification)	IPX0	Р
WALLEY W	Where the equipment is marked to classify it as having a specified degree of protection, the equipment shall comply with the appropriate requirements of AS 60529	would would would would would	
Tet mire	For equipment assigned with a second characteristic numeral greater than 0, the equipment shall then withstand the tests of Clause 8.4.	and a surface work	N/A
4.12	Equipment incorporating batteries	me me m	N/A
5	PROTECTION AGAINST RISK OF ELECTRIC SI	НОСК	NO PS
5.1	Guarding of live parts	the state of the state of	NP N
	No contact with live parts using test finger of fig.8.10.	with the set of	P
where with	No contact with live parts using test pin with force of 10N through openings in enclosures giving access to preset	while while while while	P
a sh	Covers relied upon to prevent inadvertent personal contact with live parts shall be fixed that a tool is	NET WALL WALL WALL	Р
white	A slot that will accept a coin is regarded as intended to accommodate a tool for the purpose of this Clause.	et white white white	N/A
white w	The opening or removal of cover or component shall not expose live parts to inadvertent personal contact.	WALTER WAITE WAITE WA	N/A
inthe un	If manufacturers instruct user to remove covers or components for maintenance, this shall not expose live	white white white white	N/A
er with	Metal cover or casing enclosing live parts shall be of a strength sufficient to ensure that it cannot be deformed	and white white white	N/A
when .	Edison-type screw lampholders shall be provided with adequate shielding facilities appropriate to the type of	white white white w	N/A
5.1.1 🕔	Class II construction	The state only and	1 1 P 1

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AS/NZS 3100					
Clause	Requirement - Test	Result - Remark	Verdict		
JUNITER W	Class II equipment and class II constructions adequated protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only.	Class II equipment, Class II construction	P N		
nt sun	Only possible to touch parts separated from live parts by double insulation or reinforced insulation.	mill until white white	P V		
5.2	Insulation of live parts	is it it let	8 P.S		
5.2.1	General	ster all only when when a	P		
SUNITER S	Live parts of electrical equipment shall be adequately insulated and supported and shall comply with the following:	et muset unifet antifet and	P		
	(a) Clauses 8.3 and 8.4 of this Standard.	- 1º	P		
WUTTE WI	(b) Any specified requirements for insulation thickness.	MUTER MUTER WALTER WALTE	June P Jun		
5.2.2	Separation of live parts from non-current-carrying conductive parts	at at at at	LIEVP NUT		
et miret	The support and insulation of every live part shall be such as will ensure that no live part can make contact	et ret ret tret	P P		
t. at	with any non-current-carrying conductive part exposed to personal contact.	when when we we	Р		
5.2.3	Equipment wiring	the star star with	N/A		
5.2.3.1	General requirements	white suffer suffer the	N/A		
NUTER WILL	Where equipment wiring is insulated in order to comply with Clauses 5.1, 5.2.1 and 5.2.2, such insulation shall be of a grade appropriate to the voltage. Insulants covered by this Standard shall comply with	and white white	N/A		
t st	(a) The thickness requirements of Clauses 5.2.3.2 or 5.2.3.3; or	m m m	N/A		
J. The	(b) The thickness requirements of AS/NZS 3191.	the star star with sh	N/A		
WALTER WA	For other insulation electric strength test shall be made between the conductor and metal foil wrapped around the insulation, a test voltage of 2000 V being applied for 15 min.	white white white white	N/A		
LIFEK WALT	Where the equipment wiring is in the form of a cable it shall comply with the relevant Approval and test specification except as provided in Clauses 5.2.3.2 and 5.2.3.3.	NUTER WALTER WALTER WALTER	N/A		
5.2.3.2	Specific requirements – PVC insulation	VIE MIL MAL WAL W	N/A		
- Set	Specific requirements for wiring with PVC insulation are as follows:	when the state of	N/A		
m n	(a) For internal equipment wiring and accessible	and the second she	N/A		
Intrat white	equipment wiring not subject to flexing or damage, the following shall apply: (i) General Insulation of internal equipment wiring of 250 V grade shall have an average aggregate thickness of not less than 0.5 mm, and in no case shall the minimum aggregate thickness at any point be less than 0.35 mm.	antifet whitet whitet whitet	N/A		
whit.	(ii) Flexible cords with V70, V75 and V90 insulants may have a maximum operating temperature of 80 °C, 95 °C and 100 °C.	Set white white white wh	N/A		
white we	(b) Accessible equipment wiring subject to flexing or external equipment wiring of shall have an	INTER WALTER WALTE WALT	N/A		

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AS/NZS 3100					
Clause	Requirement - Test	Result - Remark	Verdict		
	everage aggregate thickness of not less than	m. m. m	A- 15		
WILL M	0.8mm and the minimum thickness not less than		St. Martin		
20 2	0.6 mm		20. 2		
5233	Specific requirements – fibrous insulation		N/A		
<u></u>	The thickness of 250 V grade fibrous insulation for	the strate with	N/A		
	internal, accessible and external equipment wiring				
10 10	shall comply with AS 3158 or AS/NZS 3191, as		11 5		
Nr.	appropriate.		unter unter		
5.2.4	Arrangement of equipment wiring	m m	N/A		
	Precautions shall be taken in the support and	s at at	N/A		
when y	fixing of equipment wiring to ensure that live parts.		2 min .		
	cannot become exposed to personal contact.		1 4		
55	Attachment of one conductor to another by tying.	at at At A	N/A		
an an	lacing, clipping, or the like, is regarded asa		an an		
	satisfactory means of fixing and support.		1		
5.3	Earthing facilities	A AT AT SP	N/A ~		
5.3.1	Exposed metal parts to have means of earthing	the other way when	N/A		
d at	If equipment includes any exposed metal parts,		N/A		
at the	then all such exposed metal parts shall be in good		NITE INT		
201	electrical contact with each other, and the		1. 20.		
	equipment shall be provided with a common		A St		
NITE N	earthing facility.		St Inthe		
24. 2.	For combination gas-electric equipment, the main	when the strength	N/A		
at a	metallic gas pipe shall be bonded to the earthing		+ it.		
mer in	terminal of the equipment.	A CAR AN	In LAND		
a	The coating of metal parts with porcelain enamel is		N/A		
12 13	not acceptable alone as justification of absence of		1.15 1.1		
and and	earthing of such parts.	at the state of the	JULY MAL		
	Flexible metallic conduit or tubing shall not be		N/A		
* <i>1</i> *	relied upon for earthing purposes.	the state	10- 50-		
5.3.2	Method of making the earth connection	the stress of the second	N/A		
	Facilities for earthing shall take one of the				
10-	following forms:	that the second	<u>0 50 - 50 - 50 - 50 - 50 - 50 - 50 - 50</u>		
me m	(a) A terminal suitable for the attachment of an		N/A ~^		
	earthing conductor.	$\overline{h_{r}}$ $\overline{h_{r}}$ $\overline{h_{r}}$ $\overline{h_{r}}$ $\overline{h_{r}}$	4		
55 5	(b) The earthing contact of an appliance inlet.	1 1 1 1 C	N/A		
211	(c) Other approved means.	at and and when	N/A		
1. 1.	A constructional bolt, stud, or screw may be used		1 - 1		
in all	as the earthing terminal if all the following		NET MAL		
20	conditions are observed:	Carlin and Mar of	30 - 20		
	(I) The earthing conductor can be removed from		N/A		
INC. N	the terminal without in any way reducing the		a spin		
20. 0	effectiveness of the bolt, stud or screw.	men aller aller 24			
de .	(II) The removal of any covers, likely to be		N/A		
mer we	removed in obtaining access to terminals, shall		we we		
	not disturb or reduce the enectiveness of the				
10 1	(iii) The holt, stud or errow is not used for fiving the	1 A the tot	ΝΙ/Α		
in white	equipment in position		N/A		
533	Design and construction of corthing terminal	2/14 -241 -24			
0.0.0	The earthing terminal shall be conchine of	A to the			
sur.	accommodating an appropriate internal parthing		N/A		
1	conductor and a supply partial conductor of the		de la construcción de la		
. 5 ⁶⁰ .	size required by the National Wiring Rules		SE STE		
240. 24	The current-carrying capacity of any earthing	when we we are	Ν/Δ		
	The current carrying capacity of any cartilling				

Clause

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Requirement - Test

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sult - Remark	Verdict
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	JEL MALTER
24. 20	N/A
A WALTER WALTER	N/A
	united unit

Jet	terminal shall be not less than that of the earthing	at all that we write
531	Pesistance of earthing connection	N/A
0.0.4	The resistance between the earthing facility and	N/A
	any exposed metal parts shall not exceed 1.0 for	
	readily accessible exposed metal parts that rotate.	ne whe whe we
	reciprocate or oscillate continuously, and 0.1 Ω in	a at at at 5
	all other cases, when tested in accordance with	tet suffer with which when
	Clause 8.4.	when when the second
5.3.5	Printed conductors The printed conductors of	N/A
	printed circuit boards shall not be used to provide	alite mile white white when
4	earthing continuity in hand-held equipment	The An Ar A
56	They may be used to provide earthing continuity in	N/A
	other equipment if at least two tracks are used with	nert intrant when we all a
d.	independent soldering points.	an an an an an
5.4	Equipment with double insulation	A A A A A A A A A
5.4.1	Equipment may be accepted as having double	Por Por
	insulation only if it complies with Clause 5.4 and is	1 A At A
6 . S	capable of passing the tests prescribed herein.	at the set of a set of
20	In addition, the following forms of construction are	The second secon
. A	considered as acceptable:	
	(a) Equipment having metal parts that can be	N/A
	touched and that are separated from live parts by	where where where we want
at -	insulation equivalent to double insulation.	
	(b) Equipment having metal parts which are	N/A N/A
	intentionally connected to live parts through an	
	impedance which is designed to preserve the	
S. No	appropriate level of safety.	the star our with a survey
5.4.2	Supplementary insulation	N/A
	Supplementary insulation shall consist of suitable	N/A
	non-hygroscopic insulating materials and shall	the street on the south when
	comply with the test requirements specified in	July sur stress
	Clause 8.4.3.	
	Any supplementary insulation in the form of	N/A -
	coverings, linings and the like shall be securely	an an a st
<u></u>	tixed in position.	the state of the s
	In the event of failure of the basic insulation, the	N/A
	effectiveness of the supplementary insulation shall	
5.4.0	not be impaired.	
5.4.3	Basic insulation	N/A
	Basic insulation shall consist of suitable material	N/A
	possessing adequate mechanical strength and	- of the star with milt
	shall comply with the test requirements specified in	which
	Clause 8.4.3.	NIA
5.4.4		N/A
	A single layer of insulation may be accepted as	N/A
	anording equivalent protection under the following	and the state of
	(a) The single lover of reinferred insulation shall	
	(a) The single layer of reinforced insulation shall	N/A
	be of non-nygroscopic insulating material	i i st at at all
	(b) The inculation about the switchle for the	
	(b) The insulation shall be suitable for the	N/A
1 the	(a) Dropoutions abolt he taken to sward ensine the	
	(c) Precautions shall be taken to guard against the	N/A
	accidental bridging of the insulation by metal or	the she she she

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Clause	Requirement - Test	Result - Remark	Verdict		
	partially conducting motorial	m. m. m. s	A- 45		
	(d) The insulation shall comply with the test	the state of the s	Ν/Λ		
20 20	requirements specified in Clause 8 4.3				
5.4.5	External metal parts	1 1 At A	N/A		
N. J.	The equipment shall have no external metal other	Et all NUT MUT	N/A		
	than the parts listed in Items (b) to (d) of Clause				
8 - S	2.1.23 (the definition for exposed metal.)		10 S		
5.4.6	Detachable covers	with men when	N/A		
, sh	The removal of any covers without the use of tools	In a	N/A		
55	shall not expose to personal contact	at the fit	5°		
m. 1	live parts; metal parts separated from live parts by		N/A		
, L	basic insulation; or		1 A		
Ser 1	(c) the surface of basic insulation.	at at set of	N/A		
60 20	Exposure of such parts due to the removal of a		N/A		
10 1	amp from a lampholder shall not be a cause for		At 1		
N. N.	rejection in terms of this requirement.	the state state which			
	Accessible or external equipment wiring that		N/A		
A 10	complies with clause 5.2.3.2 (b) is deemed to		1. St. 50		
5 4 7	Arrangement of equipment wiring	and the second s	NI/A		
5.4.7	Precautions shall be taken in the support and	m m r	N/A		
500	fixing of equipment wiring		N/A		
the t	(a) Live parts, including any one conductor that	net with with the	Ν/Δ		
A	may become detached, cannot come into contact				
all and	with either supplementary insulation or external.		In Line		
· · · · ·	(b) Basic insulation cannot come into contact with	a can an	N/A		
1 1	external metal parts.		10 1		
all'	(c) Basic insulation cannot become exposed to	The state of the	N/A		
	personal contact by protruding through an				
+ 1	opening.	s at at	10 50		
5.4.8	Insulation of internal wiring	with all solutions	N/A		
	The average aggregate thickness of basic		N/A		
.5 ⁶ .	insulation between any two live conductors and		SE STE		
m. m	between any live conductor and supplementary		211- 2		
	Insulation shall be not less than 0.5 mm.				
JTE MIL	I ne average aggregate thickness of		N/A		
20.	supplementary insulation shall be not less than 0.6		10. 2.		
15 10	The aggregate thickness of insulation at any point				
. Nr.	shall be not less than 0.35 mm and 0.44 mm for				
	basic and supplementary insulation respectively.				
5	Notwithstanding the requirements of this Clause.	A A A	N/A		
with 1	insulation thickness complying with AS/NZS 3191		2 allow		
4	is deemed to be satisfactory.		de de		
STE IN	For appliances, the requirements of Clause 4.1.4.3	at at at a	N/A		
h. n	are not applicable to the insulation of internal		20. 20.		
1 1	wiring complying with AS/NZS 3191.		the second se		
5.4.9	Openings in external metal walls	t the set of	N/A		
20.	Where a flexible cord or other conductor passes		N/A		
t st	through an external metal wall, a substantial		1 1		
ant's	insulating bush shall be securely fixed in the		in on		
E 4 40	opening.	the and a a			
5.4.10		the state of	N/A		
an me	expression device shall be		N/A		

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Clause	Requirement - Test	Result - Remark	Verdict
- 5 ¹⁰ - 1	i at at at the ret will all	in the the	
L.	parts of double-insulated equipment.	the state of the	- <u>1</u>
5.5 🔍	Extra-low voltage equipment	suffer multi unite aunte	N/A
NUTER WALT	Clauses 5.1, 5.2 and 5.3 shall not apply to equipment rated at extra-low voltage, except that d.c. equipment rated above 50 V shall be capable of withstanding the high voltage test specified in Clause 8.4.	MUTCH WALTER WALTER	N/A
5.6	Switches in portable heating appliances	strant out whe we	N/A
5.7	Temperature rises for components and insulating material	i at at at 5	N/A
	The temperature rises of components and of electrical insulating materials used in the construction of electrical equipment shall not exceed the values specified in Table 5.7 when tested in accordance with Clause 8.12.	WALTER WALTER WALTER WALTER	N/A
5.8	Fault-indicating devices	1 1 10 50	N/A
et aufet	Any device, other than a circuit-interrupting device, that a fault exists in equipment, shall be so designe in the fault-indicating device itself shall not	intended to indicate to the user and constructed that a defect	N/A
5.9	Fixing of handles, knobs, or the like	in the way we we	N/A
6 🦽	RESISTANCE TO HEAT, FIRE AND TRACKING		- Poi
6.1	General	- the star stre with	P
	This Section applies only to equipment designated 'attended' or 'unattended' in a particular Approval and test specification.	and when any state	P
Jet mine	For particular Approval and test specifications that do not designate equipment as 'attended' or 'unattended' the requirements of Annex A apply.		P LIFE MIL
6.2	Resistance to heat	and all all a	Р
Whitek .	External parts of non-metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplastic material providing supplementary or reinforced insulation, shall be sufficiently resistant to heat	A WALTER WALTER WALTER WAL	er Pre
LIEX WALL	Compliance is checked, if required, by Footnote to Table 5.7 and by Footnote to Table 8.15.10, using thetest of Paragraph B2, Annex B.	AND	P
	For external parts: ball-pressure test (1 h, 75 °C)	the star so a	Р
Et WALTE	After the test: diameter of impression ≤2 mm (mm) :	Enclosure: 0.5mm	STE PLE
j.	For part supporting live parts: ball-pressure test (1 h	n, 125 °C)	∠ P⊿+
white w	After the test: diameter of impression ≤2 mm (mm) . :	Sleeve on live Pin: 0.5 mm Plug pin: 0.6mm	N ^P
6.3	Resistance to fire	A start	Р
inter uni	Parts of non-metallic material shall be resistant to ignition and spread of fire.	Intrest watter watter watter	JUL P J
TEX MITE	Compliance is checked by the tests of Paragraph B3, Annex B.	at the tak state with	LIEP P
t st	Alternatively, compliance may be checked as specified in Clause 30.2 of AS/NZS 60335.1.	when when we we	N/A
7 5	MARKING	et all all all all	Р
7.1	Information to be marked	all all and	Р
	All equipment shall be marked with the following information:	tet stet state with	P

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5	N	V		2
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Clause	Requirement - Test	Result - Remark	Verdict		
.lt	(a) The name or registered trade name or mark of	GlobTek, Inc.	P		
we way	the manufacturer or of the responsible vendor.		s mr s		
	(b) The operating voltage and the rating in amperes or loading in watts or volt-amperes.	3.1A	+ P		
et set	Single phase equipment shall be at least 230 V and for polyphase equipment at least 400 V or a rated voltage range that includes 230 V and 400 V	230-240V	01 P-01		
WILL TEX	(c) Where the use of equipment is limited either by its own nature or by the nature of any component such as d c, a c, phases frequency	~ unit unit unit.	SV P		
NUTER UN	 (d) Where a manufacturer or responsible vendor markets a number of different types each shall be marked with the catalogue number, type number or name. 	R-SAA-2	P Militik		
TEX WALT	e) If applicable, designation for degree of protection against moisture including any pressure, heador time.	aret anaret anniet anniet	N/A		
MALTER	(f) If compliance depends upon the operation of a replaceable thermal link or fuse link, the reference number identifying the link shall be marked.	et white white white	N/A		
	Where abbreviations or symbols are used, the following shall apply:	tet set whet a	ST PET		
	Name or unit Abbreviation or symbol	We we we we	P		
15 1	Volt V	V	× Р		
r. m	Ampere A	A	1 P 1		
	Watt W (kW for kilowatt)	W	P		
67 . S ⁰	Cycles per second Hz	Hz	P		
	Direct current d.c or Alternating current a.c or	~ mit whit whit	P		
MALTER	The numerical value of the frequency and the number of phases may be coupled with the alternating current abbreviation or symbol	t and white white	N/A		
untifek un	Not with standing the requirements of an individual Approval and test specification, the following requirements shall apply:	INTER MALIER MALIER MAL	SP SUPPORT		
inet which	Alternating current or 'a.c.' shall be acceptable for designating equipment intended for operation on a.c. Any marking required shall be expressed in SI units.	MITER WALTER WALTER WALTER	P N S P		
.2	Method of marking Marking required under Items (a), (b), (c), (d), (e) and	tet watter watter waiter	P		
WALLEK N	(f) of Clause 7.1 shall be legible, indelible, and shall be made either on the equipment itself or on a nameplate securely fixed thereto.	MALTER WALTER WALTER W	ST PET		
NUTER WAY	Adhesive metallic labels shall not be fixed in locations where, if they become detached, they may readily touch live parts or bridge insulation	white white white white	N/A		
LEK NALLE	Nameplates incorporating a durable surface finish, shall be regarded as indelible	tet stat stat wires	N/A		
	Where marking is by adhesive non-metallic labels	in me me in	N/A		
	surface transfers, painting, silk-screening, printing with etching dyes or similar means, the marking shall be sufficiently durable for its purpose.	of white white white			
white wi	The marking of fixed equipment shall be clearly discernible from the outside after the equipment	wifet milet antifet was	N/A		

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Clause	Requirement - Test	Result - Remark	Verdict
	i at at at att and and	we we we a	
Set.	has been fixed as in normal use, but, if necessary,	a at at .	18 . Ser .
in m	after removal of a cover.	with all and and	in the
.d	The marking of other equipment shall be clearly	211. 24. 2.	P
JEE NI	discernible from the outside, if necessary, after	at at the set of	a state and
6. Car	removal of a cover; for portable equipment, the	ment which what when	the sec
1. 18	removal of this cover shall not require the use of a	A A	1. 1.
and the second	Indications for switches, thermostate, thermal out		NI/A
20	outs and other control devices shall be placed in	mer we we	N/A
- let	the vicinity of these components	i i it it	at the
7.3	Double marking	the state with matter all	N/A
7.0	If any equipment is to be marked with its load in	The strength of	N/A
Alt .	watts and is marked with more than one voltage	at at at a	
me m	but only one wattage, then the marked wattage	atter oute water water	mr m
	shall correspond to the wattage measured at the	all an ar	at a
Set St	highest marked voltage.	1 15 10 50	THE ME
7.4	Marking of earth connections	with application when	N/A
at at	The provisions of this Clause shall apply to all	and the	
IN LA	equipment except that which has a Type Z	of left set ster	IN ALL MARK
20.	attachment	when when when it	2 2
10	The earthing terminal of any equipment shall be	i st st	N/A
in any	identified by means of the word 'earth' or the letter	THE THE MUT IN	a and a
		the me we an	
10 3	E or the international earth symbol, viz., \bigcirc , or		the set is
the all	Er any combination thereof.		NI/A
	to fixed wiring of an installation		IN/A
	(a) the earthing terminal need not be marked if its		N/A
-201-	function is clearly evident	LIE MAL WAL MAR	
t st	(b) if the earthing terminal is within a terminal box		N/A
IN LAND	or enclosure, any marking may be in a durable	t set set we	
-29.	manner by means such as painting or a suitable	when when my in	
. et	transfer.	i de et a	the state of
no in	Lettering used for the marking of the earthing	the star with sold	N/A - N
	terminal shall be of such a size, or so indented or	The she in the	
1 5	embossed, as to be conspicuous.	a to the to	- 5 S
in the	The marking required by this Clause may be	sites all water water	N/A
a sh	supplemented by other identifying features, such	Let the second	1 1
an she	as plating or green colouring or the word 'green'.	1 A A A	Str. Str.
7.5	Marking of class II equipment	and the share of the state of t	N/A
	All Class II equipment, other than accessories,	- Ser	N/A
IN LAL N	shall be identified by means of the international	t set set site a	in which is
20. 11	symbol for, double-insulated equipment, viz.	when the the in	20.
de .	or the words 'DOUBLE INSULATED'.	and the state of	t it .
ne an	Such markings shall be legible and indelible and	and the state with	N/A S
	shall be made either on the equipment itself or on	ne ne in in	
15 19	a nameplate securely fixed thereto.	i it it it	1 A. S.
e. me	The symbol for Class II construction shall be so	TEL STE MILL MARK	N/A
1 A.	placed that it will be obvious that it is a part of the	20, 20, 4.	t it
5 50	technical information and is unlikely to be	at at at at	NE NIE
	contused with any other marking.	and when the second	12 20
7.6	Warking of live supply connections	20. 2	P
and all	where it is necessary to mark and identify	at all all a	P IN
20 20	live supply connections, the following system shall	the the star is	20. 0.

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	he used		
when we	(a) For active connections, any marking or	LIFE ALLEL MUT MALE	11 P 11
	abbreviation which clearly indicates the intent.	my m m	
10° 5	(b) For neutral connections, N (or Neutral).	at at at set	<u></u> P
in an	In any equipment, marking as above shall not be	nett unit when when	P
	used other than to indicate live connections.		the state
1.1	Additional marking of multi-rated equipment	the file file of the	<u>N/A</u>
- JTEK	supply by flexible cord and plug and is designed for	e at at at 5	N/A
201 1	conversion to a rating which exceeds that at which	which which which which	N/A
A	the equipment is initially intended to operate, the	So the state	
Mar M	equipment shall be marked with the following	TEX SEX SUPER NUTE	
bi 2.	information:	were were solve an	<u></u>
Set Se	(a) Instructions which clearly indicate how the	at at at at	N/A
- 2m	(b) Details for fitting the correct type of supply	the we we a	N/A
1 14	flexible cord and plug and the appropriate socket-		at at
- NUL	outlet to be used for each rating which exceeds 10	et tet tet with the	and a
24.	A. I A A A A N	white where where where	
7.8	Equipment with type X, type Y and type Z attachments	Tet stat attat and	N/A
it i	The instructions shall contain the substance of the following:	where where we are started	J. S.
ret united	(a) For equipment with Type X attachment having a specially prepared cord, if the supply cord is damaged, it shall be replaced by a special cord or assembly available from themanufacturer or its service agent	and a second second second	N/A
WALTER	(b) For equipment with Type Y attachment, if the supply cord is damaged, it shall be replaced by the	A MALTER MALTER MALTER MAN	N/A
det .	gualified person in order to avoid a hazard.	s at at at	Jet .
all all	(c) For equipment with Type Z attachment, the supply cord cannot be replaced. If the cord is	antit water water water	N/A
	damaged the equipment should be scrapped.	the set set set	NUT DON'T
7.9	Legibility of marking	in the the and	<u>Р</u>
et set	with Clause 8.13.	it at at the	Set P Set
7.10	Instructions for installation and use	in the way with the	P
whitek w	If it is necessary to take special precautions when installing or using equipment, details shall be given in an instruction sheet, which shallaccompany the	whitek whitek whitek white	P
8		the state of the	ND S
8 1	General	mer mer wer wer	P
8.3	Insulation resistance and leakage current		P A
8.3.1	Insulation resistance	See relevant clause of AS/NZS	P
		3112	
8.3.2	Leakage current test	1 A at the s	Ø P.S
8.4	High voltage (electric strength) test	See relevant clause of AS/NZS 3112	P
8.6	Cord anchorage	at at at all	N/A
8.7	Test for screw threads and fixings (See Clause	all out whe when	N/A

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erdict	Clause	ause				
/	Clause	ause				

1. Ar	4.7)	i stat d	
8.8	Mechanical strength test	The strength with	NP N
8.8.1	General	The she a	Р
NUTER WAL	Equipment shall be subjected to blows, with an impact energy of 0.5 ± 0.05 Nm.	ALTER WALTER WALTER WALTER	NUT PUNI
8.8.2	Spring-operated impact-test apparatus	the state and with all	Р
8.8.3	Procedure		- Pot
which we	The sample as a whole is rigidly supported against a plane surface and three blows are applied to every point of the enclosure that is likely to be weak.	WALLER WALTER WALTER WALT	NP N
8.8.4	Criteria	and an an p	Р
STEK WALT	After the test, the sample shall show no damage within the meaning of this Specification; in particular, live parts shall not have become exposed.	stet waitet waitet waitet w	P
(A2:2019)	In NOTE 5 replace AS 60068.2.75 by IEC 60068- 2-75.	er white white white wh	<u></u>
8.10	Standard test finger and protective impedance		Р
8.10.1 🔷	General	with mit whit when	1/1, B 1/1
MITEL MIL	For the purpose of determining whether or not either live parts (see Clause 5.1) or non-current- carrying conductive parts are exposed to personal contact, use shall be made of the standard test finger.		P Mark Mark
8.10.2	Design and construction	w in an in the	Р
1 A	The standard test finger, as shown in Figure 8.10.	100 100 100	L P A
8.10.3	Method of use	t of the star of	Р
whitek wh	The standard test finger may be applied directly to the live or non-current-carrying conductive part and a visual examination made to determine whether or not the finger is in contact with the part under test.	whitet whitet whitet white	P
8.10.4	Protective impedance	alt of an are all	N/A
et wattet	Protective impedance shall consist of at least two separate components, the impedances of which are unlikely to change significantly throughout the life of the equipment.	itet waitet waitet waitet wa	N/A
whiter w	Voltage, current and capacitance are measured between the relevant part and either pole of the supply source, the equipment being supplied at rated voltage.	WALTER WAITER WALTER WALT	N/A
in m	The circuit for measuring the current is that of Annex E or that in Figure 4 of AS/NZS 60990.	MALIE WALTE WALL MAL	N/A
LIER WALTE	Resistors or capacitors used as protective impedances shall comply with Clause 14.1(a), or	TEX NITEX MUTEX MUTEX W	N/A
8.12	Temperature and fire risk test	10 1. S.	P A
8.13	Test of marking	at the total of the	R
whitek w	Checked by inspection and by rubbing by hand for 15s with a piece of cloth soaked with water and again with a piece of cloth soaked with petroleum spirit.	MUTER MUTER WALTER WALTER	VP VINTER VI

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Clause	Requirement - Test	Result - Remark	Verdict
	At the completion of these tests, the marking shall	an an a a	
	comply with Clause 7.2		
8.14	Stability test	to the she in	N/A
5 5	Freestanding equipment intended for use on a	a it it is	N/A
	surface such as a floor or a table shall have		me in
a de	adequate stability.	The second	
	The equipment is placed, with the motor switched		N/A
	off, in any normal position of use on a plane		20 -20
, sta	inclined at an angle of 10°.		the second
	Equipment with doors is tested with the doors		N/A
	upfavourable		
and the second	Equipment intended to be filled with liquid by the	a de de de	NI/A
	user in normal use is tested empty or filled with the		
	most unfavourable, quantity of water up to the		
	rated capacity.		JUE NI
24	The equipment shall not overturn.	and and me	N/A
8.15 🦽	Abnormal operation	d at	- P .0
8.15.1(A1:2	General	At Stranger	P
017)	and the state of the second of	when the the	
	Equipment shall be so designed that the risk of		P P
	fire, mechanical damage impairing safety or the		n mur.
	protection against electric shock as a result of		1 1
	abnormal or careless operation is obviated as far		The street of
1. m.	as is practicable.	A AND AND A	
	of Clauses 8 15 2 to 8 15 9 as appropriate all		IN/A
	thermostats and temperature limiters being short-		White Main
	circuited or otherwise rendered inoperative, the		20 21
	tests being conducted under the general test		at st
	conditions specified in Clause 8.12.		in man
	The equipment shall then comply with the	211- 211	N/A
	requirements of Clause 8.15.10; the tests being		SE STER
	conducted under the general test conditions		2412 -2
	specified in Clause 8.12.		
3.15.2	Heating equipment test	de _de _de _de	N/A
3.15.3	Locked-rotor test	the the she	N/A
3.15.4	Equipment with three-phase motors	the state of the	N/A
	Equipment incorporating three-phase motors is		N/A
	disconnected for a period as specified in Clause		and the second
	8 15 3		SP SPE
8.15.5	Running overload test	and and and an	N/A
8.15.6	Equipment for short-time or intermittent operation		N/A
Ser in	When steady conditions are established, or	10 10 50 50	N/A
	immediately before the operation of the thermal		24. 21.
	cut- out, the temperature of the windings shall not		At 1
in anti-	exceed the values specified in Clause 8.15.5.	t the star with	and an
3.15.7	Equipment with series motors	m. m. m.	N/A
3.15.8	Equipment incorporating electronic components	s at at	N/A
	Components are short-circuited or disconnected,		N/A
	whichever is the more unfavourable. If a non-self-		At at
14 A	resetting thermal cut-out operates or	the state of the s	
	III The current is otherwise interrupted in a non-self-		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
140 1	i at at at the will write	we we we we	
WALTER WAY	resetting way before steady conditions are established, the operating period is considered to be ended.	While while while while	Whiter y
NETER WALT	If interruption of the current does not occur, the equipment is operated until steady conditions are established.	LIFE WALTER WALTER WALTER	N/A
ret white	For equipment for short-term operation, the duration of the test is equal to the rated operating time.	et whilet whilet while w	N/A
white w	Positive temperature coefficient resistors (PTCs), negative temperature coefficient resistors (NTCs) and voltage dependen resistors (VDRs) are not short-circuited if they are used within their manufacturer's declared Specification.	Whitek whitek whitek white	N/A
8.15.9(A1:2 017)	Equipment incorporating Varistors	a at at at	N/A
14	This test is applied if required by clause 3.16(e).	and the she	N/A
whitek w	If the voltage rating of a varistor connected to live parts is such that it will conduct at twice the maximum rated voltage of the equipment , (2 Vr) or lower, the equipment and a test resistor Rx connected in series with the mains supply to the equipment is energized from an a.c. source of 2	water water water water	N/A
Intick work	Components in parallel with the varistor that may be affected by this test shall be disconnected.The test shall be performed with Bx(1) = 2 Vr / 0.125	at white white	N/A
* would b	If the circuit does not open, the test shall be continued for 4 h, then repeated with lower values of Rx in turn, until the circuit opens: Rx(2) = 2 Vr / 0.5, Rx(3) = 2 Vr / 2.5, Rx(n) = Rx(n-1) / 2 half the previous value etc.	white white white wh	N/A
8 15 10	Test results	the start start	Р
<u></u>	Equipment shall not emit flames, molten metal,	when we we we	P
The Advert	Enclosure shall not deform to such an extent that compliance is impaired	LIET WALTER WALTER WALTER	Р
Et MALIET	Temperature rises shall not exceed the values in table 8 15 10	et they when when a	P.S
Whitek W	After tests, the insulation of equipment other than Class III, shall withstands the electric strength test in clause 8.4 with the test voltage.	when when the second	C Pric
	(a) basic insulation: 1000V	m - m - m	Р
St 5	(b) supplementary insulation: 2750V	at the fit fit	P
the the	(c) reinforced insulation: 3750V	still mar white white	P
	Annex A: SECTION 6: RESISTANCE TO HEAT	FIRE AND TRACKING	P
A 6.1.1	General requirements for compliance of solid insul metallic enclosures:	ating materials and non	Por Por
A WALTER V	Compliance of solid insulating materials and non metallic materials of electrical accessories is checked by A 6.1.2 to A 6.1.7.	* Whitek Whitek Whitek Wh	P.C.
Inthe MA	Burning droplets or glowing particles do not escape from the equipment and ignite the tissue	tet tet with antet mit	N/A

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Clause	Requirement - Test	Result - Remark	Verdict	

de la companya de la comp	paper or scorch the particle board underlay.	a state d	- J
A 6.1.2 📣	Materials and tests	The shirt white white	1 P 1
NUTEK DINIT	Tests are carried out on solid insulating materials and non metallic enclosure whilst assembled on a complete end product.	when we white white	UNLIEF UNLI
set white	Tests are not carried out on decorative trims, insulation of wires, knobs and other small parts unlikely to be ignited or to propagate flames originating from inside	Tet wattet wattet wattet wa	STAL P
A 6.1.3	Glow-wire tests on relevant parts	+ + 1 1 5	N/A
with the second	Relevant parts, other than those in A 6.1.4 are subjected to the glow-wire test of AS/NZS 60695.2.11 at 650°C; unless	white white white with	N/A

the mut	Otherwise specified in relevant product standard.	LIEK MUTER MUTER	N/A
et untitet	Glow-wire test is not carried out on material classified	et set set	N/A
A 6.1.4	Glow-wire tests on retaining parts	in main	P
WALTER V	Parts of insulating material retaining current carrying parts carrying more than 0.2A, subjected to the glow-wire test at temperature 'T ' specified	MULTER WALTER WA	P
he co	Temperature "T"	850°C	N. N. P.
stet white	Parts tested withstand the glow-wire test, but produce a flame that persists for longer than 2 s consequential needle flame test of A 6.1.5 applies.	TE WALTE WALLA	watter white part
A 6.1.5	Consequential needle flame test	of the time	N/A
MALTER N	a) Needle-flame test of A 6.1.7 is applied to all parts of non-metallic material likely to be ignited by and positioned within a distance of 50 mm of those parts that flamed during the glow-wire test of A6.1.4.	whilet whilet wh	N/A
EK WILLEY	 b) Needle-flame test of A 6.1.7 is applied to those parts contacted by the flame, outside the 50mm, subjected to burning droplets or glowing particles during the needleflame test of A6.1.5 b). 	PLITE WALL WAL	N/A
whitek	c) Needle-flame test of A.6.1.7 is applied to those parts contacted by the flame or subjected to burning droplets or glowing particles during the needleflame test of A6.1.5 b).	water water w	N/A
iner w	Needle-flame test is not carried out on parts of material classified as V-0 or V-1 provided that the test sample was no thicker than the relevant part.	white white white	N/A
A6.1.6	Needle flame tests on printed circuit boards	Str. Str. Str.	N/A
A WALTER	Base material of printed circuit boards is subjected to subjected to the needle-flames or burning droplets;	at minet minet	N/A
Alex	The test is not carried out:	20. 2	
white of	i) on printed circuit boards in a metal enclosure that confines flames or burning droplets;	UNLIEK WALTER WA	N/A

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	AS/NZS 3100	Davis and an an	In In
Clause	Requirement - Test	Result - Remark	Verdict

. WALTER V	ii) if the material is classified as V-0 for correct thickness.	N/A
A6.1.7	Needle-flame test method	N/A
A 6.2	Temperatures of surfaces to be handled	🖉 🔨 📝 N/A 🗸
7 7 1	The temperature rise shall not exceed the values specified in Table 5.7.	N/A
A 6.3	Resistance to tracking	N/A
+ MALTER	Insulating material shall have adequate resistance to tracking, taking into account the severity of its duty conditions.	N/A
.et	For parts of insulating material used under severe duty conditions, the test voltage is 175V.	N/A
Mr. M	For parts of insulating material used under extra- severe duty conditions, the test voltage is 250V.	N/A

As sp	pecified in sub-	clause 8.15.	8 AS/NZS 310)0 ^{°°} (0°	m. m.	i i it it it
Test	voltage: Rated	voltage 240	V			Mutter white white white
No.	Component	Fault Conditio n	Current(A)	Voltage	During time	Description
, TIN	untre int	- 54 -		~	1. T. A.	- at the mark white whi



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Appendix J of AS/NZS 3112: 2017+A1: 2021

J1	Scope		11 P 11
J2	Definitions	a st st st	<u>к</u> Р к
J2.1 🖑	Detachable plug portion	White white white white	Р
1 ⁴⁴ . 5	(a)Type A (see Figure J1)	at let let stat	Set P.Se
24	(b)Type B (see Figure J2)	or when we are an	N/A
- NUTER	(c)Type C (see Figure J3)	of not well well must	N/A
J2.2	Integral plug portion	mer mer mer in	Р
When y	A plug portion that is integral to the equipment enclosure and is not detachable.	MALTER WALTER MALTER WALTER	JULY P JU
J2.3	Plug portion	it get get and allet	STE P NI
et white	A plug portion is that portion of equipment with pins for insertion into a socket-outlet, including the plug pins, terminals of the plug pins, external dimensions of the 'maximum projection' and any connections of a detachable plug portion.	et and and and an an	P
J3	Requirements for plug portion	MALL MALL MAL MAL	Р
J3.1	General	at the state	P N
Set whi	The following provisions apply to the dimensions apply to the dimensional and constructional requirements of the plug portion of equipment	See appendix 1	LIEK WALTE
t 18	and any detachable connection for (a) to (d).	while the set	s⊱ P_st
WALTER V	(a) For detachable plug portions intended for connection to the equipment in multiple orientations, the relevant tests are performed in the most onerous orientation.	White white white white	NP -
LTEX WALT	(b) For Type A detachable plug portion, the relevant requirements of AS/NZS 3105 are applicable, in addition to conformance with relevant clauses of this Appendix.	Compliance to requirements of AS/NZS 3105:2014 (output connector part complying with AS/NZS 60320.1 as a 2.5A 250V coupler)	ALL P AND A
WALTER	(c) For Type B detachable plug portions, the conformance is shown by the relevant clauses of this Appendix.	ANTER WAITER WAITER WAITE	N/A
Intret of	(d) For Type C detachable plug portions, conformance is shown by assessment to Section 2 of this Standard (plugs) and relevant clauses of this Appendix.	whitek whitek whitek whitek	N/A
J3.2	Plug pin of plug portions:	See below	Р
A MULTE	The requirements of clause 2.2 are applicable for plug pins.	See cl. 2.2	P

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Clause	Requirement - Test	Result - Remark	Verdict		
Clause 2.2 Clause 2.2.1	Material for pins: Current carrying parts of plug pins shall be of metal having, under the conditions occurring in the plug, sufficient mechanical strength, electrical conductivity and resistance to corrosion adequate for their intended use. Compliances shall be check by inspection and where in doubt,	See below	P		
10	by chemical analysis.	Strand with which we			
- NALTE W	a) copper;	t set stat with white	N/A		
	b) copper alloy containing at least 58% copper for parts made from cold rolled sheet or at least 50% copper for other parts; or	≥58% copper	P		
LEK WALTEN	c) stainless steel containing at least 13% chromium and not more than 0.09% carbon.	and the state with	N/A		
Clause 2.2.2	Assembly of pins: Where, during assembly, pin may become detached from the body of a plug yet remain attached to the conductors of a flexible cord, or have to be detached from the body to enable connection, it shall not be possible for a plus to be assembled with any pin located in a position other than that intended. In a plug made of resilient insulating material, the pins and terminals shall be held securely in position.	Moulded on the plug portion			
Clause 2.2.3	Form of pin: The plug pins shall be adequately proportioned throughout and the portion adjacent to the connection shall be designed so as not to introduce a stress concentration which may lead to a fracture of the pin, and shall be suitably shaped to prevent abrasion or cutting of conductor strands due to flexure in normal use.	It can easily enter into the gauge without additional force applied. No sharp edges	A P		
et whitet	The exposed ends of plug pins shall have a bevel or radius to facilitate entry into socket-outlets and to operate shutters.	See below	Set P		
. Let	Round pins shall have a semicircular end profile.	s at at a	P P		
Mr M	Flat pins with the following width and thickness profiles are deemed to comply:	See below	P		
nt wh	a) Flat-pins with a radius on the end with side bevels, as shown in figure 2.1(h), may have a -	See appendix 1	vn − P ≺		
AL WALL	- i) width profile with an arc on the centre line of the pin of -	See appendix 1	ST RU		
WALTER J	A) 6 mm for all pins of 10A plugs and live pins of 15A plug; or	See appendix 1	P.S		
INLIEK NN	B) 11 mm for each pins of 15A plugs and all pins	10 A plug	N/A		

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Clause	Requirement - Test	Result - Remark	Verdict	
WALTER MA	- ii) thickness profile with each corner beveled 0.3 mm to 0.4 mm along the sides finishing along the pin at 0.8 mm to 1.0 mm.	See appendix 1	P	
NUTE WALT	b) Flat-pins square on the end with corner bevels and side bevels, as shown in figure 2.1(i), may have a -	Flat-pins with radius on the end with side bevels	N/A	
When the state	- i) width profile which is square and with each corner beveled 0.6 mm finishing along the pin at 0.8 mm to 1.0 mm; and	to white white white white	N/A	
Wherek wh	- ii) thickness profile with each corner beveled 0.3 mm to 0.4 mm along the sides finishing along the pin at 0.8 mm to 1.0 mm.	whitek whitek whitek whitek	N/A	
LIFEK WALTE	c) Flat-pins square on the end with corner bevels and a radius on the sides, as shown in figure 2.1(j), may have a -	Flat-pins with radius on the end with side bevels	N/A	
et would	- i) width profile which is square and with each corner beveled 0.6 mm finishing along the pin at 0.8 mm to 1.0 mm; and	et whitet whitet whitet wh	N/A	
WALK W	- ii) thickness profile with a radius of approximately half the material thickness along the sides, finishing along the pin at 0.8 mm to 1.0 mm.	White white white white	N/A	
ret wanter	The contact portion of the pin shall be smooth and free from openings or indentations; however, for flat pin plug, a longitudinal seam or opening in the contact portion of one face up to 0.3 mm width is deemed to comply. The thickness of any pin at the seam is measured using a 0.3 mm thick blade as indicated in Figure 2.3	Smooth, no seam	P	
WALTER WAY	The exposed portion of plug pins of other than insulated pin plug shall be free from any non- metallic coverings or coatings.	whitek whitek whitek white	Р	
Clause 2.2.4	Insulation of plug pins: Live parts of insulated pin plugs shall not be exposed when the plug is partially or fully engaged with the associated socket	See below	nt Polet	
whitek w	Compliance for plugs of the types shown in figure2.1 is checked by measurement to Figure 2.4	See appendix 1	Pet	
INLIES JUNE	For purpose of this clause, lacquer, enamel or sprayed insulating coating is not considered to be insulation material.	No such materials used	MUP M	
t whitek	All live pins on low voltage plugs except for those shown in Figure 2.1(a2), (b) and (g) shall be of the insulated pin type from 5 years after the publication of this Standard.	Insulated pin sleeve used	P	
J3.3	Rating and dimensions for low voltage plug portions:	See below	PX	

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Clause	Requirement - Test	Result - Remark	Verdict	
WALTER WA	The requirements of clause 2.8.1 and 2.8.4 are applicable for ratings and dimensions.	See cl. 2.8.1 and 2.8.4	P	
Clause 2.8.1	Plugs with ratings up to and including 20 A, shall conform to the appropriate dimensions shown in Figure 2.1.	Two-pin plug. Complying with Figure 2.1(c), (e)	INTER MI	
SUNTER UNITED	In addition to dimensions of Figure 2.1, the distance between a live part pin of any plug and the edge of the moulding of the plug, shall be not less than 9 mm. Where doubt exists regarding compliance with this requirement, the gauge of Figure A1 in Appendix A or Figure B1 in Appendix B, or Figure F1(a) or Figure F1(b) in Appendix F, as appropriate, shall be place over the pin so as to contact the highest points associated with the plug face between the plug and the plug gauge, penetration to within 9 mm of the live pin shall not be possible.	The distance between a live part pin of any plug and its edge: 10.96mm (required: >9 mm)		
whitek w	No point on the front face of the plug shall protrude by more than 0.5 mm. The pin lengths shall be measured from a plane normal to the pin passing through the highest point on the front face of the plug, to the end of the pin.	No point on the front face of the plug with protrusion	P	
Clause 2.8.4	Compliance with dimensional requirements of Figure 2.1	See appendix 1	ул ¹²⁵ Р "М	
whitek wh	Low voltage plug shall be checked for compliance with the prescribed dimensions of Figure 2.1 by any suitable means, except that compliance with the nominal dimensions covering disposition of pins, i.e. spacing from centre and angular orientation, shall be checked by a gauge complying with Appendix A, Appendix B or Appendix F, as appropriate.	See appendix 1	A ANTER	
ATER WALTER	In addition, low voltage flat-pin, or combination of flat and round pin, plug having ratings up to 15A of the Figure 2.1(a1), Figure 2.1(c), Figure 2.1(d), Figure 2.1(f) or Figure 2.1(g) type, shall comply with the dimensional requirements of Figure 2.1(e1 and e2).	Two-pin plug. Complying with Figure 2.1(c), (e). See appendix 1	P	
while w	20 A plugs of the Figure 2.1(a2) type shall comply with the dimensional requirements of Figure 2.1(e2).	whitet white white white	N/A	
ret white	Plugs with insulated pins, complying with this Standard, need not comply with dimension R20 ± 1.0 mm of Figure 2.1(e2) provided there is at least 9mm from the edge of the live pins to the edge of the plug face Figure 2.1(e3).	Insulated pins used	P	

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J3.4	Internal connections for plug portions:	See below	20 P - 2
strek watt	Internal connections for plug portions: The requirements of Clause 2.9 are applicable for internal connections unless requirements are contained in the relevant product standard.	See cl. 2.9	INT P
Clause 2.9	Internal connections	See below	Р
white w	The design and construction of a plug provided with earthing connections shall be such that when the plug is correctly wired and completely assembled:	Two-pin plug	N/A
TEK JE	a) a loose terminal screw or conductive material cannot bridge and live parts or earthing parts;	and an all all an	N/A
at whitet	b) the earthing parts are effectively isolated from contact with a live conductor which may become detached ; and	et the state of the state	N/A
whitek wh	c) the live parts are effectively isolated from contact with any earthing conductor which may become detached	white white white white	N/A
NUTER WALT	Any connections for auxiliary devices, such as radio interference suppressors or visual indicators, shall comply with the above requirements.	Compliance shall be checked by end-product standard	N/A
J3.5	Arrangement of earthing connections for plug portions	Two-pin plug	N/A
WALTER V	The requirement of Clause 2.10 are applicable for arrangement of earthing connections.	* miller antifet antifet antif	N/A
Clause 2.10	The earthing pin of any low voltage, three-pin plug shall be that pin which is radial to the circle embracing the pins (see Figure 2.1(a), Figure 2.1(f), Figure 2.1(g)).	Two-pin plug	N/A
J3.6	Configuration of plug portions	See below	P
et whitet	The requirement of Clause 2.12.6 are applicable for configuration of plug portions	See cl. 2.12.6	P C
Clause 2.12.6	A plug conforming to Figure 2.1(a), Figure 2.1(c), Figure 2.1(f) or Figure 2.1(g) shall have its pins disposed as that, when the pins are correctly connected, the pin configuration, viewed as from the pins, shall be earth, neutral and active in a clockwise direction.	Conforming to figure 2.1(c)	P.C.
TER WALTER	Where there is no earthing, the live part pins shall conform to this configuration	Two-pin plug	N/A
J4 5	Test	s at at at a	et Post
J4.1	General	and and and and	P

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	V	Λ	
E.			
	6	W	

AS/NZS 3112					
Clause	Requir	ement - Test	jet i	Result - Remark	Verdict
aniter and	Plug portions of equipm be subjected to the follo stated otherwise, shall requirement specified i The number of test san accordance with table of	nent with integral p owing tests and ur comply with the n section 2 for eac nples shall be in J1	bin shall hless ch test.	The number of test samples used in accordance with table J1	P
	For equipment with a d assessment of Table J shall be conducted on t	etachable plug po 1 tests 2, 3, 5, 10 a he-	rtion, the and 11	and white white white	n Pol
nt n	(a) assembled equipme portion connected; and	ent with the detach	able plug	water out wat ou	Р
Ine wa	(b) the detachable plug portion after it has been separated from the equipment.			MALTE MALT MALT MAL	Р
whitek	Table J = Integral or detachable plug per 1 2 Test No. Description of test General and dimensions 1 1 High voltage test 2 Tumbling barrel test 3 Impact test 4 Pin bending test 5 Plug portion detachable priories inter 8 Tests for plugs with insulated pins 9 Equipment with a plug portion inter 10 Access to live parts 11 Construction of detachable contact 12 Resistance to heat 13 Determination or ignitability and combustion propagation NOTE Total number of samples required: 10 san a described in Clause 4: 14 least 3 additional san the test is repeated with each plug portion inter of plug portion. 4 For detachable plug portion of ignitability and combustion propagation	rtions—Tests to be applied and ord 3 Reference for test procedure and criteria* 13 14.2 14.3.1 14.3.2 14.3.4 ents 14.8.3 14.4 14.5 14.6 14.5 14.6 14.5 14.6 14.7 14.8.1 s 14.8.1 s 14.8.2 14.8.1 s 14.8.2 14.8.1 s 14.8.2 14.8.1 s 14.8.2 14.8.4.1 14.8.4.2 19.8.5 19.8.4.2 19.8.4.2 19.8.3 19.8.4.2 19.8.4.2 19.8.4.2 19.8.4.1 19.8.4.2 19.8.4.2 19.8.5 19.8.5 19.8.6 19.8.4.2 19.8.8.2 19.8.8.1 19.8.4.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.1 19.8.8.2 19.8.8.1 19.8.8.1 19.8.8.2 19.8.8.1 19.8.	der of application 4 Sample identification A BCD† EFG H† H H H H H H It any or I‡ In both methods as need by the number of		
J4.2	High voltage test	ise 2 13 3 are apr	licable	See below	P
	unless requirements ar product standard.	e contained in the	relevant	NUTE WALTE WALTE WALTE	JULL DI
Clause 2.13.3	High voltage test	whet whet	NITEX UN	Sex whitek whitek whitek w	P
WALTER W	 The plug shall withstand without failure an a.c voltage of the value indicated in table 2.3, applied between the parts set out in item (a) and (c) of clause 2.13.2 for 1 min. in each case a) Between all poles of the plug, taken in pairs. 			white white white whi	P
				Applied 1000V a.c.	Р
Set MALTE	c) Between live poles of terminal of exposed me connected together.	f plug and the ear etal, the live poles	thing being	Tet whitet whitet white	N/A
whitek w	The plug shall further w voltage of 3000 V a.c. a set out in Items (b) and min. in each case.	vithstand, without f applied between th (d) of clause 2.13	ailure, a ne parts 8.2 for 1	Applied 3000V a.c.	P

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AS/NZS 3112					
Clause	Requirement - Test	Result - Remark	Verdict		
WALTER WA	b) Between live poles of plug and any external metal, all live poles of plug being connected together.	white white white	N/A		
et set	d) Between live poles and a flexible electrode applied to non-conducting parts normally handled in service all live poles connected together.	Applied 3500V a.c. to live parts with metal foil wrapping over insulated mouldings.	IN ^{LL} P _N IN		
Whitek	The insulation of insulated pin plugs shall withstand a voltage of 1250V a.c. for 1 min applied in accordance with Clause 2.13.2(e)	See below	P		
Intrest whi	e) for insulated pin plug, between live poles and a metal foil applied around the insulation on each live pin for a distance of approximately 4 mm from plug face, all live poles being connected together.	Applied 1250V a.c. to live parts with metal foil wrapping over insulated pin	PL MALIER M		
J4.3	Mechanical strength of pin test	See below	Part Part		
J4.3.1	Tumbling barrel test	See below			
Antes .	The tumbling test is applied to determine the mechanical strength of the plug pins	et white white white wh	Р		
white white	For equipment with a detachable plug portion, the detachable plug portion may become detached during the test. If this occurs the detachable plug portion shall be reassembled with the equipment when the pins are straightened as per (a) and (b) below:	whitet white whitet	UNITEX UN		
whitek y	Three sample which have not been subjected to any previous test are tested to the requirements of clause 2.13.7.1 however, the test is modified for plug portion of equipment with integral pin as follows:	Tested according to cl. 2.13.7.1	P		
ourer our	A sample of equipment with integral pins is dropped-	See below	_у∩ [∨] Р ⊲		
ATE WIND	a) 500 times if the mass of the specimen does not exceed 250g. The pins being straightened after 100 drops and at the completion of the test to pass through the appropriate gauge of Figure A1, B1 or F1; and	Weight: 20g 500 times of falls were conducted Three samples tested. Not damaged. At the completion of the test it can pass through the gauge of Figure A1, B1 or F1, as appropriate.	nt Pont		
Intra Mint	b) 250 times if the mass of the specimen exceed 250g. The pins being straightened after 25 drops and at the completion of the test to pass through the appropriate gauge of Figure A1, B1 or F1; and	Whitek whitek whitek whitek	N/A		
+ INLIEK	Compliance shall be checked in accordance with Paragraph J4.3.3	See J4.3.3	et P et		
1432	Impact test	See below	Р		

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Clause	Requirement - Test	Result - Remark	Verdici		
UNLIEK WI	Plug portions and equipment having integral plug portions or detachable plug portions shall withstand lateral impact forces.	whitet whitet whitet white	Р		
are when	All samples that were subjected to the tests in Paragraph J4.3.1 shall be tested as followings:	ALTER WALTER WALTER WALTER	P.V		
whitek w	(a) The sample shall be positioned at the centre of a steel plate with a thickness of at least 6mm. Apertures in the steel plate for the plug pins to pass through shall conform to the corresponding socket Standard. The sample shall be held against the steel plate by clamping all the pins.	And white white white white	P		
iet white	(b) Samples shall be subjected to blows, with an impact energy of 1.0±0.05J by any means having the same performance as the spring-operated impact-test apparatus of AS/NZS 3100.	WALTER WALTER WALTER WALTER	NITE N		
WALTER	(c) Three blows shall be applied to every point that is most likely to directly or indirectly stress the enclosure joints of the sample.	et whilet whilet whilet wi	STEK PLI		
uniter of	Compliance shall be checked by Paragraph J4.3.3.	whitek whitek whitek white	P		
4.3.3	Specific compliance certeria		P		
et white	For equipment with an intergral plug portion, the assessment shall be made on the complete equipment.	The state when when	N/A		
NUTEK	For equipment with a detachable plug portion, the assessment shall be conducted on the -	detachable plug.	Р		
	(a) assembled equipment with the detachable plug portion connected; and	when when we are	Р		
at an	(b) the detachable plug portion after it has been separated from the equipment.	white white white white	Р		
s one	Following each test the samples shall comply with Clause 2.13.7.1	See below	P		
WALLS	(a) Live parts shall not have become exposed to the standard test finger.	Live parts are not exposed	Р		
WALTE N	(b) For earth pins, the resistance of the plug/socket-outlet circuit shall be such that conformance with Clause 3.14.7 is maintained.	Not applied, no earth pin.	N/A		
at al	(c) Any other function affecting safety shall not be impaired.	All functions can be worked normally.	Р		
whitek	(d) No live part shall have become detached or loosened, to the extent that a hazardous situation is created (see Clause 2.9)	No detached or loosened	P		

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Clause	Requirement - Test	Result - Remark	Verdict	
MALIER MA	(e) The pins shall be inspected with normal, or corrected to normal, vision. Insulation may be removed if necessary. Pins shall not be broken or show cracking	Pins are not broken	P	
ret wiret	The sample shall conform to the "Guarding of live parts" requirements of AS/NZS 3100.	at all the state	P P	
white whi	Following each test, no internal conductive material or conductive part shall have become detached or loosened, to the extent that it creates a hazardous situation. The sample shall conform to the "Separation of live parts from non-carrying conductive parts" requirements of AS/NZS 3100.	A WALFER WALFER WALFER WALFER	P P	
J4.3.4	Pin bending test	See below	, P	
et white	The pin of the plug portion of three samples not subjected to any previous tests shall be tested for compliance with the pin bending test of Clause 2.13.7.2	Tested according to cl. 2.13.7.2.	P M	
Clause 2.13.7.2	All flat-pins of plugs rated up to and including 15A shall be subjected to a pin bending test. Three samples not subject to any previous tests shall be test as following:	New three samples	Per	
ret white	Pin of assembled plug shall be tested by clamping the plug in a rigid holding block and applying a bending force, as shown in figure 2.8, to the pin under test.	The write writer writer w		
	The pin shall be straight at the beginning of the test. If there is any doubt about the straightness of the pin, it shall be checked by the appropriate plug gauge shown in Appendices A, B or F.	Checked with the appropriate plug gauge before conducting test		
aret and	The portion of application of the force shall be 14±0.5mm from the face of the plug.	The force applied on 14 ± 0.5 mm from the face of the plug		
Et antret	The direction of the force shall be along a line parallel to the face of the plug.	The direction of the force applied along a line parallel to the face of the plug		
SUNTER SUNT	Active and neutral pins shall be forced towards the centroid of the plug and then back to the starting point. On the first sample plug, any earth pin shall be forced but in one direction only and then back to the starting point. On the second sample plug, any earth pin shall be forced in the opposite direction to that used for testing the first sample plug. On the third sample plug, any earth pin shall be force in the direction that gave the least favourable result during testing of the first two sample plugs.	Tested according to the procedure		

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Clause	Requirement - Test	Result - Remark	Verdict
20	it at at all all all mill and	which we we will we	
and text and	The distance moved from the point of application shall be 7.45±0.5mm, and then the pin shall be forced back to the starting point. Any "springback" is ignored.	The distance moved from the point of application was 7.45 \pm 0.5 mm	
et waitet	The travel from the starting point, to the end point (7.45 mm), and back to the starting point is one cycle. (i.e. one cycle is two separate movements)	and what when when a	
WALTER -	The speed of deflection shall be maximum of 50 mm/s.	50 mm/s of the speed of deflection	
with a	The interval between successive cycles shall be a minimum of 10 s.	10s of the interval	
in an	The pins shall be tested for 20 movement cycles.	20 movement cycles	Р
TER WALTE	After the tests the pins shall be inspected with normal or corrected to normal vision.	and whitek whitek whitek y	P.M
t . Set	The pin shall not be broken off.	No pins broken off	et P.S
Mr.	If in doubt pins shall be disassembled from the plug and any insulation removed.	whit whi whi w	N/A
J4.4	Temperature rise test	See below	AN P
itret whit	The relevant requirements of clause 2.13.8 are applicable for the temperature rise test, except that the test current shall be that specified in the relevant product standard.	See cl. 2.13.8	MULT P
whitek	The temperature rise of the pins shall not exceed 45K irrespective of the temperature rise of parts specified in end product standards.	See appended table	P"
Clause 2.13.8	Plug shall be so constructed that they comply with the following temperature rise test:	and when we set	P
TEX MULT	a) Non-rewireable plugs are tested as delivered. (specially prepared sample with access to terminals for temperature measurement)	Non-rewireable plug	N/A
yunitek	b) Rewireable plugs are fitted with polyvinyl chloride flexible cord with conductors having the minimum cross-sectional area specified in the manufacturers instructions.	rewireable plug	P SVI
when w	The terminal screws or nuts are tightened with a torque to two-thirds of that specified in test No. 5	No terminal screws or nuts used	N/A
it re	To ensure normal cooling of the terminals, the conductors connected to plugs shall have a length of at least 1 m.	See above	N/A
whitek	The plug shall be tested in a draught-free environment at the centre of a plane wooden board, which shall be at least $6 + 2$ mm thick, 500 mm wide and 500 mm long with the rear completely enclosed in a wooden mounting enclosure (wall box) of 90 × 60 × 40 mm.	and an at the set	P

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Clause	Requirement - Test	Result - Remark	Verdict
	and the set off mill white	. The the the t	
	Apertures in the wooden board for the plug pins to pass through are specified in Table 3.1, see Figure 2.9.	watter watter watter wat	Р
in min	Plugs are tested as follows:	The aller muse white	JUN P.W
y ymiret	The appropriate clamping units with the dimensions specified in Figure 2.10 are fitted on each live pin of the plug, together with the thermocouple.	Tet whitet whitet whitet	In Tex P
when when when the second s	The screw is then placed approximately in the middle of the bare part of the pin and tightened with a torque of 0.8 Nm. The clamping unit is fitted with PVC-insulated conductors at least 1 m long, having nominal cross-sectional areas as shown in Table 3.3.	antifet antifet antifet antifet	SUP SUP
whitek	Where the conductors pass through the wooden mounting enclosure (wall box) there shall be a complete airtight seal between the conductors and the enclosure.	et white white white y	N. EX WALT
White W	The plug is inserted into the socket outlet and an alternating current of 1.1 times rated current is passed for 1 h.	240 V+10 %	Р
et white	The temperature of the flexible cord terminal is determined by means of melting particles, colour changing indicators or thermocouples, so chosen and positioned that have negligible effect on the	J type thermocouple used	P

Measurer	ment location	Temperature rise in K	Maximum allow, temp, rise in	Р
WALTE	Temperature r 45K	ise of the terminals shall not exceed	See appended table	Р
st whit	and positioned temperature b	t that have negligible effect on the eing determined.	In The WALTER WALTER WALTE WA	in white

weasure	nent location		K	mum allow	. temp. rise	; IN	P
Terminati	on L of plug	6.4	NUTER	4	5 me	-sh	P
Terminati	on N of plug	5.7	N AL	4	5 At		0 P.50
Enclosure	e inside	4.8		m ²²	5 m	m.	Р
Enclosure	e outside	4.1		4	5 1	.54	Р
Ambient	a at	24.2 ℃	in.	me	n. i		- 1º
Notes: Me	easurement uncer	tainties were adjudged to be ± 2 °C		t set	Set S	Y.C.	INVIE MA
2.13.7.1	J 4.3.1Tumbling	barrel test	mer	up my my my an		Р	
Requirem	ent which which	what we are the	Test result		LIER UNLIV		
200			N.S.	Sample 1	Sample 2	San	nple 3
After 1000 the meani	times of falls, the ng of this standard	sample shall show no damage with d:	nin				
(a) Live pa finger.	arts shall not have	become exposed to the standard te	est	ОК	ОК	J.C.C.A.	ОК



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· · · ·	AS/NZS 3	112	the in	1997 - C.	a sta
Clause	Requirement - Test		Result - F	Remark	Verdict
(b) For earthing pin shall be such that c	, the resistance of the plug/socket-outle compliance with Clause 3.14.7 is mainta	et circuit ained.	N/A	N/A	N/A
(c) Any other functi	on affecting safety shall not be impaire	d.	ОК	ОК	ОК
(d) No live part sha extent that a hazar	Il have become detached or loosened, dous situation is created.	to the	OK	ОК	ОК
(e) The pins shall b vision. Insulation m broken or show cra	e inspected with normal, or corrected t ay be removed if necessary. Pins shall cking.	o normal, not be	ОК	ОК	ОК

J4.5	Securement of pin of the plug portion	See below	P
une un	The requirements of clause 2.13.9 are applicable for the securement of pins	See cl. 2.13.9	on P √
Clause 2.13.9	Securement of pins	See cl. 2.13.9.1 and 2.13.9.2	C PM
Clause 2.13.9.1	Movement of pins	See below test result	P
WALLER WAL	Plug shall be tested for pin movement by clamping the pin or pins not under test in a rigid holding block positioned 5±0.5mm from the plug face and applying a force of 18±1N to the pin under test. The design of the block shall be such that the pin under test shall not come into contact with the block during the test.	A force of 18 ± 1 N applied	P
whitek	Except for non-rewireable plugs, the test shall be carried out without a cord attached to the plug, and with the terminal screws loosened sufficiently to allow a 1mm ² conductor to be connected.	Non-rewireable plug	N/A
WALTER WA	The plug and test equipment shall be preconditioned at a temperature of 40±1°C for 1 h, without the test force applied. Throughout the test, all parts of the plug test equipment shall be maintained at this temperature.	Preconditioned at a temperature of 40 ± 1 °C for 1h	WILLEY M
et white	For all plugs, the point of application of the force shall be 14 ± 0.5 mm from the face of the plug along the pins, and the direction of the force shall be	Complied	
INTEX IN	a) in both direction along the line perpendicular to the plane of the pin, and passing through the centre of the pin; and	Both directions tested	P
JEX MUS	b) in that plane in both directions along a line at right angle to that specified in item (a)	Both directions tested	LIE P

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Clause	Requirement - Test	Result - Remark	Verdict	
	is at at all the mill work	we we we we		
united united	Over a period of 10 s, the force shall be gradually applied to each of the pins in the manner prescribed in item (a) and (b), maintained at its maximum value for 10 s, and then released. The deflection of the pins shall be measured along the line of force relative to the face of the rigid holding block during the period when the force is applied. The maximum deflection shall not exceed 2.0 mm.	Measured:0.4 mm max. (all source of material were considered)	MITTER MAITE	
WALFER WAL	Following the test on all pins of a plug conforming to Figure 2.1, any distortion 5 min. after the completion of the test on the last pin shall be such that it will not prevent the plug from being inserted in the appropriate standard gauges shown in Appendix A, Appendix B and Appendix F without the application of undue force,	After test it can still be inserted in the standard gauge shown in Appendix A, Appendix B or Appendix F, as appropriate, without the application of undue force		
et vuntret	For other types of plug, any distortion after 5 min shall be such as will not prevent the plug being inserted into an appropriate socket-outlet without the application of undue force.	All pins of plug confirming to figure 2.1	P	
Clause 2.13.9.2	Fixing of pins	See below for test result	Jun Person	
neitex south	A separate sample of a plug, shall be heated to a temperature of 50±2°C for 1 h and maintained at that temperature during the whole of these tests, including the 5 min. period after removal of the test load.	Heated to a temperature of 50 ± 2 °C for 1h	METP VIN	
WALTER WA	The plug shall be held firmly in such a manner that there will be no undue squeezing or distortion of the body, and the means of holding shall not assist in maintaining the pins in their original position.	Firmly held without applying undue squeezing or distortion to the body	P. P	
thet watt	Each pin, in turn, shall have applied to it a force which, over a period of 10 s, shall be increased steadily to 60±0.6N and held at this value for 10 min.	A force of 60 ± 0.6 N applied	NUTER WAL	
WALTER W	Two test on each pin shall be conducted, one with the direction of force along the length of the pin toward the body of the plug, and the other with the direction of force along the length of the pin away from the body.	Two tests on each pin were conducted	PL	
nute vinite	The attachment of pins shall be considered inadequate if any pin is displaced relative to the adjacent material of the body by more than 2.4 mm at any time during these tests, or id any pin fails to return to within 0.8mm of its nominal length specified in Figure 2.1 within 5 min. of the removal of the test force.	No displacements on any pins of plug were observed		
J4.6	Tests on the insulation material of insulated pin	See below	P	

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Clause	Boguiromant Tast	Booult Domort	Vordia		
Clause	Requirement - Test	Result - Remark	verdici		
UNLIEK NIN	The requirements of clause 2.13.13 are applicable for insulating material of insulated plug pins.	See cl. 2.13.13	Р		
Clause 2.13.13	Additional test for plug with insulation pins	See below	P N		
Clause 2.13.13.1	General				
SUNITEE SU	The material of the pin-insulation shall be resistant to the stresses to which it may be subjected at the high temperature likely to occur in conditions approaching the bad connection conditions and at low temperature in particular conditions of service.	See below	A P P		
at al	Compliance shall be checked by the test of Clause 2.13.13.2 to 2.13.13.6	See cl. 2.13.13.2 to 2.13.13.6	Р		
Clause 2.13.13.2	Pressure test at high temperature	See below	Р		
whitek w	A specimen of one insulated pin only shall be subjected to the following test by means of the apparatus shown in Figure 2.5. This apparatus shall have a round shape with a distance of 6 mm and a thickness of 0.7 mm.	Tested by using of test equipment shown in Figure 2.5	VPL WALTER		
ere where	The specimens shall be placed in position as shown in the Figure 2.5 and a force of 2.5N shall be applied through the blade to the specimen.	A force of 2.5 N applied	P		
Mainter of	The apparatus, which the specimen in position, shall be maintained for 2 h in a heating cabinet at a temperature of $160\pm 5^{\circ}$ C. The specimen shall then be removal from the apparatus and, within 10 s, cooled by immersion in cold water.	Tested in a heating cabinet at a temperature of 160 ± 5 °C for 2 h	P		
	The thickness of the insulation shall be measured immediately at the point of impression. The thickness within the area of the impression shall not less than 50% of the thickness measured before the test.	After the test, the thickness of sleeve of plug pins (line and neutral pins) remaining at the impression point were reduced approximately 2.86% that not more than 50 %	MALP .		
whitek whi	Visual inspection shall be made and no cracks on the insulation material shall be visible with normal, or corrected to normal, vision without additional magnification, and the dimension of the insulating material shall not have changed below the minimum size shown in Figure 2.4	Compliance checked	WALTER WALTER		
Clause 2.13.13.3	Static damp heat test	See below	LIPE P		
whitek w	An insulated pin plug shall be subjected to two damp heat cycles in accordance with IEC60068-2- 30. Db (12+12 h cycle), 95% relative humidity, lower temperature 25±3°C and upper temperature 40°C	Tested in accordance with IEC 60068-2-30	P SUDIT		

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Clause	Requirement - Test	Result - Remark	Verdict
WALTER WA	After this treatment and after recovery to room temperature, the specimen shall subjected to:	See below	P
NITER WALT	a) the insulation resistance test in accordance with Clause 2.13.2(e)	5ΜΩ	MIT P M
IEK MUTEK	b) high voltage test in accordance with Clause 2.13.3 and;	See cl. 2.13.3	STER P
- Julit	c) abrasion test in accordance with Clause 2.13.13.6	See 2.13.13.6	P
Clause 2.13.13.4	Low temperature test	See below	Р
unt with	An insulated pin plug shall be maintained at - 15±2°C for at least 24 h and returned to room temperature.	Maintained at -15 \pm 2 °C for 24 h	NICE NIC
et set	a) the insulation resistance test in accordance with Clause 2.13.2 (e)	5ΜΩ	P
- NII-	b) high voltage test in accordance with Clause 2.13.3 and;	See cl. 2.13.3	Р
with wi	c) abrasion test in accordance with Clause 2.13.13.6	See cl. 2.13.6	P
Clause 2.13.13.5	Impact test at low temperature	See below	P SP
	A specimen of one insulated pin only shall be subjected to an impact test by means of the apparatus shown in Figure 2.6. The mass of the falling weight shall be 100±1 g,	See below	PALI A MALER
	The apparatus, on a sponge rubber pad 40 mm thick, together with the specimen, shall be maintained at -15±2°C for at least 24 h.	Maintained -15 ± 2 °C for at least 24 hrs	P.
	At the end of this period, the specimen shall be placed in position, as shown in Figure 2.6, and the falling weight shall be allowed to fall from a height of 100 mm. Four impacts shall be applied successively to the same specimen, rotating it through 90° between impacts.	Tested by using test equipment shown in Figure 2.6	ILE WALT
white w	After the test the specimen shall be allowed to return to room temperature and then examined. No cracks of the insulating material shall be visible with normal, or corrected to normal, vision without additional magnification.	No cracks of the insulating material	WILLER VI
Clause 2.13.13.6	Abrasion test	See below	UTER PUNC
A WALTER	An insulated pin of an insulated pin plug shall be subjected to the following test by means of an apparatus as shown in Figure 2.7	See below	et Pret

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	AS/NZS 3112				
Clause	Requirement - Test	Result - Remark	Verdict		
WALTER WALT	The test apparatus comprises a horizontally disposed beam, which shall be pivoted about its center point. A short length of steel wire, 1 mm in diameter and bent into a U-shape, the base of U being straight, shall be rigidly attached, at both ends, to one end of the beam, so that the straight part project below the beam and shall be parallel to the axis of the beam pivot.	ANT ON THE WATCH	Martek Marte		
whitek whi	The plug shall be held in a suitable clamp in such a position that the straight part of the steel wire rests on the major axis face of the plug pin, at right angles to it. The pin shall slope downwards at an angle of 10° to the horizontal.	Tested at a pin was sloped downwards at an angle of 10° to the horizontal	Pictor		
JEK WALTE	The beam shall be loaded so that the wire exerts a force of 4 N on the pin	A force of 4N applied	NUTER P		
wintifet all	The plug shall be moved backwards and forwards in a horizontal direction in the plane of the axis of the beam, so that the wire rubs along the pin. The length of the pin thus abraded shall be approximately 9 mm, of which approximately 7 mm shall be over the insulation	et white white white white	IEX P IEX		
NUTER WORLD	The number of movements shall be 20,000 (10,000 in each direction) and the rate of operation shall be 30 movements per min.	20000 of movements with the rate of 30 movements per min	NUT P		
er would	After the test, the pins shall show no damage which may affect safety or impair the further use of the plug, in particular, the insulating sleeve shall not have punctured or rucked up.	No rucked up or punctured of insulating sleeve observed	at Print		
J4.7	Equipment with integral pins intended to be supported by the contacts of a socket-outlet	See below	P		
antitet antitet	Unless requirements are contained in the relevant product standard, compliance is checked by inserting the equipment with integral pins, as in normal use, into a flash-mounting combination switch socket-outlet complying with this standard, the socket-outlet being pivoted about a horizontal axis through the centre-lines of the contact apertures at a additional torque, which has to applied to the socket-outlet to maintain the engagement face in the vertical plane, shall not exceed 0.25N.m.	Weight: 20g The maximum measured torque: 0.040 N.m	P		
Let on the	Where the equipment with integral pins is fitted with a flexible cord, the test is conducted with the centre-line of the axis of pivot of the socket-outlet located at a point 500 mm above a horizontal surface. The flexible cord is allowed to hang freely from the equipment with that flexible cord in excess of 500 mm resting on the horizontal surface during the test.	Tested as delivered	P ST		

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AS/NZS 3112				
Clause	Requirement - Test	Result - Remark	Verdict	
J4.8	Additional requirements for detachable plug portions DOA 24/02/2019	white white white white	P	
J4.8.1	Access to live parts DOA 24/02/2019	NUTER WALTER WALTE WALTE	Pol	
WAL	Detachable plug portion shall be not possible to contact live parts with the small test finger of Figure 13 of IEC 61032.	tet watter watter watter	P	
WILL WILL	If an opening does not allow entry of the test finger, a force on the test finger in the straight position is increased to 20 N.	water were wired mired	N/A	
J4.8.2	Construction of detachable contacts where the input current of the equipment exceeds 0.2 A DOA 24/02/2019	AND WITH WATER WAITER	N/A	
and some and	Contacts of the equipment shall be such that they make and maintain, under normal service conditions, satisfactory electrical and mechanical contact with the corresponding contact of the detachable plug portion. The effectiveness of the contacts is checked by inspection and by the plug portion detachment requirements of Paragraph J4.8.3.	et whitet whitet whitet white	N/A	
J4.8.3	Plug portion detachment requirements DOA 24/02/2019	TE MATE WALTER WALTER W	LIE PLIE	
* WALTER V	The plug portion and the equipment/adaptor shall be connected and disconnected 50 times (100 strokes).	* white white white wh	St P. F.	
on the one	The plug portion shall be securely held in position. A force which, over a period of 10 s, shall be increased steadily to 60 ± 0.6 N and held at this value for a further 10 s, shall be applied evenly at the connecting equipment in a direction parallel to the pins. This procedure shall be conducted three times on the same plug portion, at intervals of 5 min, without disturbing the plug portions between tests. During the test period, the plug portion shall not	Whitek whitek whitek whitek	WITE SUNT	
	separate from the equipment.	Mr M W	at .	
Inthe work	The test of AS/NZS 3112 'temperature rise test' for plugs shall be conducted immediately after the above test without disturbing the sample.	Plug Max:7.2K	Р	
J4.8.4	Resistance of insulating material to heat and fire DOA 24/02/2019	TE watte watte wat at	P	
J4.8.4 1	Resistance to heat	at the strand of	Р	

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Clause	Requirement - Test	Result - Remark	Verdict
	is at at att all with which	and and an a	
	 Subjecting the relevant part to the ball pressure test of IEC 60695-10-2 as specified below. The test is carried out at a temperature of 40 ± 2°C plus the maximum temperature rise determined during the temperature test of Paragraph J4.4, but it shall be at least: (a)75 ± 2°C, for external parts; 	Plug holder(b):0.9mm, Enclosure(a):0.7mm	re por P
	(b)125 \pm 2°C, for parts supporting live parts. After the test, dimension d (diameter of the indentation) shall not exceed 2 mm.	AND MALTER MALTER MALTER	istat water
J4.8.4.2	Resistance to fire	at at at 5	P
Tet watte	Plug portions shall comply with the requirements for resistance to fire in accordance with AS/NZS 3100. The glow-wire test temperature 'T' shall be 750°C.	750°C.	P
white	Where a plug portion is detachable, conformance shall be established by assessment with the plug portion fully assembled with the equipment.	et wontret wontret wontret s	P
	Access to live parts shall be assessed for incorrect assembly of the plug portion.	watter watter watte wat	WAL
	It shall not be possible to assemble the plug portion to the equipment resulting in a dangerous situation allowing access to live parts.	and white white	NUTER N
	The plug portion shall not expose live parts prior to assembly.	TE MITE MILITE WAITER	WILLER WILL



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10A Plug Portion Dimensions (Three-Pins)





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Reference No.: WTX23D10218930Z002

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(j) The flat pin square on the end with corner bevels and radius on the sides

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Measurement (mm)		Junit from At	Set Variation S	
Metal	Insulation		verdict	
6.26	6.36	6.2 - 6.5	F. J.F. J.F.	
6.29	6.40	6.2 – 6.5	1/10° P 1/10	
26.95		21.9 max. or 27.0 min.	WALTER WALTER V	
26.95		21.9 max. or 27.0 min.	strek Ptrek whi	
20.54		21.9 max. or 27.0 min.	at Pt of	
98.	10 minet mine	21.9 max. or 27.0 min.	Р	
1.58	1.63	1 50 1 70	when Pull	
1.59	1.62	1.30 - 1.70	,∠P ,,+	
Fit the testing gauge	Fit the testing gauge	7.02 (Nominal) 1)	MULL PULL ON	
Fit the testing gauge	Fit the testing gauge	7.92 (Norminal) *	Liter In Plan und	
9.43		8.6 min.		
16.96		16.66 – 17.46	WALP WAL	
16.	97	16.66 – 17.46	P /	
19.61		R19.0 – R21.0	white Punt y	
19.76		R21.0 max.	Р	
.0.	37	R1.0 max.	NUT PLI M	
L: 8.47 R: 8.51		8.2 - 9.2	Р	
0.30		0.30 - 0.40	St P N	
S 0.95		0.80 – 1.00	Р	
T state state with which when we		0.60 min.	TP NIT	
Fit the testing gauge		6 ¹	Р	
Distance from projection part edge to L and N pins		9 min.	P III	
Pin Angle (Left side) Fit the testing gaug		60° ¹⁾	I'L PI NOV	
Fit the testing gauge		60° ¹⁾	Р	
	Metal Metal 6.26 26. 6.29 26. 20. 98. 1.58 98. 1.59 Fit the testing gauge Fit the testing gauge 9.4 1.59 Fit the testing gauge 9.4 16. 1.59 Fit the testing gauge 9.4 16. 1.59 Stit the testing gauge 9.4 16. 1.59 Stit the testing gauge 9.4 16. 1.59 Stit the testing gauge 9.4 16. 1.50 16. 1.50 16. 1.50 19. 0.8 1.2 1.10.92 Fit the test Fit the test Fit the test	MetalInsulation 6.26 6.36 6.29 6.40 26.95 26.95 26.95 26.95 20.54 98.10 1.58 1.63 1.59 1.62 Fit the testing gaugeFit the testing gauge $gauge$ Fit the testing gauge 9.43 16.97 19.61 19.61 19.61 19.61 19.61 0.30 0.30 0.95 Tit the testing gauge $1.58.51$ 0.30 0.95 Fit the testing gauge $1.58.51$ $1.58.47$ R: 8.51 0.30 0.95 Fit the testing gauge 1.59 Fit the testing gauge 1.59 <	MetalInsulationLimit (mm)MetalInsulation6.266.266.366.2 - 6.56.296.406.2 - 6.56.296.406.2 - 6.52.921.9 max. or 27.0 min.2.02.19 max. or 27.0 min.2.0.5421.9 max. or 27.0 min.2.0.5421.9 max. or 27.0 min.98.1021.9 max. or 27.0 min.98.1021.9 max. or 27.0 min.98.101.58 - 1.7898.101.58 - 1.7898.101.6298.107.92 (Nominal) ¹⁾ 16.66 - 17.4616.916.66 - 17.469.438.6 min.9.438.6 min.9.438.6 min.16.66 - 17.4616.716.66 - 17.4616.6710.016.677.92 (Nominal) ¹⁾ 16.66 - 17.4616.78.10 max.16.78.10 max.16.78.10 max.16.78.2 - 9.20.30 - 0.409.50.30 - 0.409.50.30 - 0.409.50.50 min.6 ¹ 11.10 - T0.60 min.11.10 -	

Dimensions without tolerances are nominal. Samples are to be checked with the gauge specified in Appendix A, Appendix B or Appendix F, as appropriate.
 The dimension G is not applicable if the plug pins are insulated pin type.

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Photo 2 External View

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Photo 4 External View

=====End of Report======

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