# SPECIFICATION

#### FOR

AUSTRALIAN/NEW ZEALAND POWER SUPPLY CORDSET (PB FR)

CORD : CIRCULAR ORDINARY V-75 3X1.00mm²

**BAC TEVD LKEE** 

COSTOMER : ELEMENTIA PTE LTD

CUSTOMER'S PART No. : AUIØLS3/V1625

AOFEX, 2 BEC. BEE. NO: : 143106

ISSUE No. : 001

DATE : 07TH JANUARY 2014

#### CUSTOMER APPROVED :

X7A

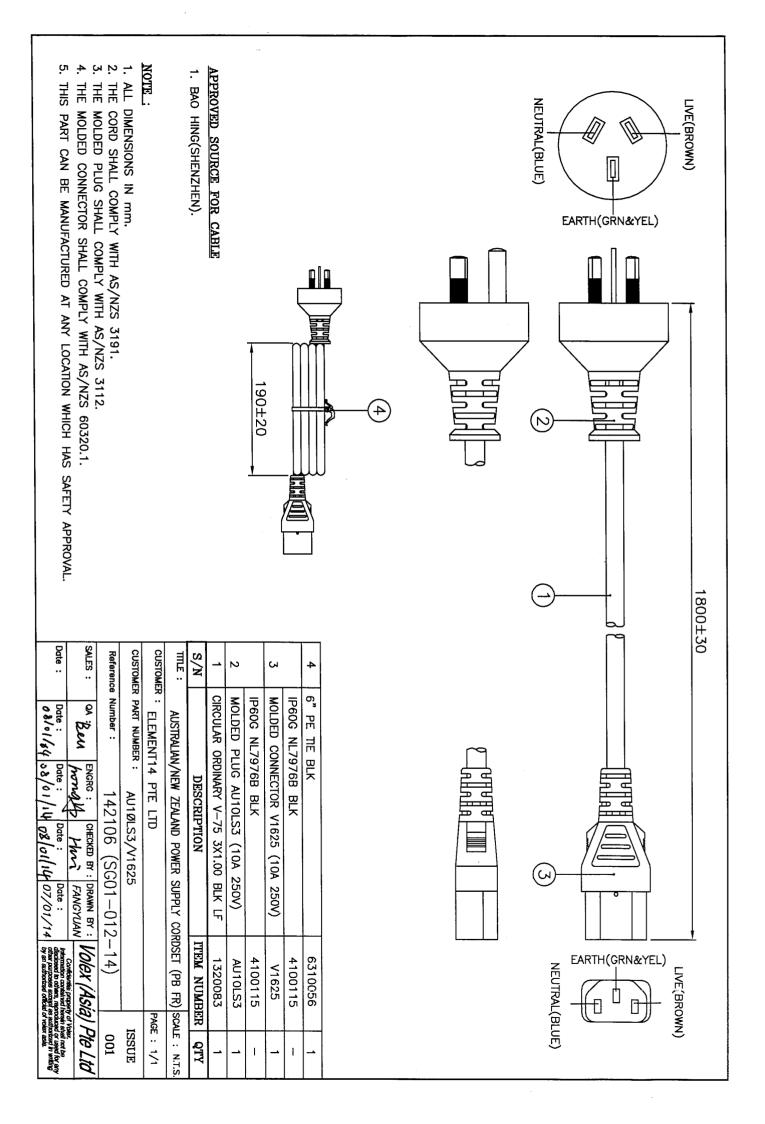
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Zer: (65) 6788 7822 Fax: (65) 6788 7823

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DATE	DESCRIPTION OF CHANGES	EF. No.	F



L.		
60/+0/20	CHANGE CABLE TYPE ON THE TITLE.	១
	UPDATE VALUES PER PRODUCT SAFETY.	
12/04/07	BIK, ŁW. KEA. E PER SAA STANDARD.	ŀ
	REMOVE INSULATION COLOR 'BLUE, BROWN	
DATE	DESCEIPTION	REV.

## I' LAC LIEXIBIE COED

#### 1.1 SCOPE

This specification shall be in accordance with AS/NZS 3191.

## 1.2 CONSTRUCTION

PVC	JACKET
PVC (BLUE, BROWN, CREEN&YELLOW)	NOITAJUSNI
ANNEALED COPPER WIRE	ЯОТЭПОИОЭ

20.0<	MQ/km	ICE LEST (75°C)	NATZISA RESISTAN	
07<	MQ/km	INSULATION RESISTANCE TEST (20°C)		
8.91>	υ /km	ACE TEST (20°C)	CONDUCTOR RESISTA	
0.111.1 0.101.1 0.001		MMERSED IN WATER 20±5°C, 24 HRS		
anim G 101 V 0021	_	DIVIDUAL CORES	VOLTAGE TEST ON IN	
		TOGETHER AGAINST WATER	50∓2.C' 54 HBS	
anim 2 101 V 0025	_	ALL CORES CONNECTED	CABLE IMMERSED IN WATER	
3000 V for 5 anim	-	CORE TO CORE	VOLTAGE TEST ON COMPLETED	
09.7	шш	OVERALL DIAMETER OF JACKET (REF.)		
85.0	шш	MIN. THICKNESS AT ANY POINT OF JACKET		
08.0	шш	MIN. AVE. THICKNESS OF JACKET		
44.0	шш	POINT OF INSULATION	MIN. THICKNESS AT ANY	
09.0	шш	OF INSULATION	MIN' AVE. THICKNESS	
00.1	շ աա	CONDUCTOR NOMINAL AREA		
Σ	ON.	NO. OF CORE		
044/097	٨	RATED VOLTAGE		
<b>♥</b> 94	٥.	TEMPERATURE RATING		
SPEC. VALUE	TINU	LEM		

\**5**7

## TILTE : CYBLE SPECIFICATION

V CIRCULAR ORDINARY 3X1.00mmm² STRCULAR ORDINARY 3X1.00mmm²

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bil 9ta (Rish) X9loV	C BENZION:	DRAWN BY:	-1	APPROVED BY:	

1 20/03/09	INITIAL RELEASE.	
3TA0	DESCRIPTION	REV.

## CABLE MARKING

## BVO HING(SHENZHEN)

= ORDINARY DUTY GTSA-3 250/440V 3X1.0mm² V-75 N14586

Volex (Asia) Pte Ltd			: 3	ВЕГЕВЕИС
	٧	REV.	.2.T.N	SCALE
(AAZ)	000MKK 2X1'00- (L BH		-116reay,	ЯЧЧА
	DEDINARY/CIRCULAR	69/50/51	-3-8	CHECK
TITLE: CABLE MARKING	CABLE MARKING	20/02/03	NAYƏNOH	NWASI

CIRCULAR ORDINARY 3X1.00mm² -LF

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DATE	DESCRIBLION .	KEA
	ADD IN CATALOGUE NO. 'MFAUI052'.	
1 6/02/13	CHANGE TEST RESULT TO 'ACCEPTANCE CRITERIA'.	Λ
	ADD IN CATALOGUE NO. 'AUIOLS2, AUIOLS3, AU20LS3, AUIOLSF2,	
£ [/80/£0	WAIOLS3, VPAUIOLS3 & VPAUIOLS2 PER ECNO08-13-A.	

5. PLUG

**7.1. SCOPE** 

PAGE 1 OF 3

The plug shall be in accordance with AS/NZS 3112.

#### 7.2. CONSTRUCTION

The plug construction shall comply with our catalogue No: AU10S2, AU10LS3, AU10LS3,

#### 2.3. CHARACTERISTICS

	40∓1°C.		1
·	in succession for 10 sec. The test is conducted at		
exceed 2.0mm after 5 min.	applied perpendicular to the pins in 2 directions		
ton Isha sing of the	40±1°C for 1 hour. A force of 18±1N is then	(movement of pins)	
The maximum deflection	The plug is conditioned at a temperature of	Secureness of pins	.9
exceed 45 K.	from a socket for I hour.		
the terminals shall not	gulq of the plug is passed through the plug	18 <b>9</b> 1	
To emperature of	bater adi to sami 1.1 to insruo gnirentatis nA	Temperature rise	5.
	straightened every 100 times.		
berongi zi	1000 times. The pins are inspected and		
Bending of pins	onto a steel plate(3mm thick) for a total of	1691	
No damage.	The samples are drop from a height of 50cm	gnildmuT	.4
	(707) is used for 0.5mm² conductor)		
must be intact.	It is performed 3 times.		
of conductor to the pins	then maintained for further 10sec., and release.		
relief and the connection	force is applied over an interval of 10sec., and	anchorage test	
No damage to the strain	The cord is subjected to a pull force of 110N.The	Flexible cord	3.
	sniq əvil bns		
	1250V a.c. is applied for 1 min between sleeves		
	For plug with insulated pins, a voltage of		
	between live poles and surface.		
flash over.	Voltage of 3500V a.c. is applied for 1 min		
break down in voltage or	between poles and between live and earth poles.	test	
There shall not be any	A voltage of 1000V a.c. is applied for 1 min	egstloV dgiH	7
	insulated sleeve and live pins.		
	surface and for plug with insulated pins,		
	live poles, live poles and earth, live poles and	1891	
mdO M č .niM	This test is measured with a D.C 500V between	Insulation resistance	ı.
ACCEPTANCE CRITERIA	ЗРЕСІFІСАТІОИ REQUIREMENT	TEST ITEM	ON.
	COI.	HAKACIEKIZI	7 · C · 7

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PLUG	41/8/5	1	:Я44А
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of the board.			
tissue papernor sorching			
shall be no ignition of the			1
the glow-wire. There	·		1
after the removal of	the current-carrying pins for a period of 30s.		
shall extinguish within 30s	750°C shall be applied at the portion between		1
Any flame and glowing	The tip of the glow wire heated electrically to	Glow wire test	12
proken.			1
conductor shall have			
number of strands of each	being 10,000 and the rate of flexing 60 per min.		1
	either side of the vertical) the number of flexing		
not more than 10% of the	and forward through an angle of 90° (45° on		Ì
have been damaged and	the oscillating member shall be moved backward	(Bending test)	1
the flexible cord shall not	for 0.75mm <sup>2</sup> or 20M for 1.00mm <sup>2</sup> and bigger and	flexible cord	
no damage. Insulation of	The sample shall be loaded with a weight of 10M	To insmit of	11
The sample shall show		3-7 1- // /	<del>                                     </del>
parted from the pin.	conductor for 1 min.	arotonnu o o	
shall be completely	is applied between the pin and the attached	conductors	.0.
No conductor strands	Ve.0±č8 fo lluq A.bətsət əre səlqmsa bəbluomırU	To insministia	10.
	then released.		}
	the pins and free end of the jacket for 10sec.,and		
entry of cord guard.	neevered. A force of 130-130 is applied between		1
not be exposed at the cord	from the cord entry with all conductors and cores	gnidisədə	
The insulated cores shall	The jacket of the cord is slitted approx. 25mm	Attachment of	.6
sniq.	inner cores for 10sec., and then released.		
1	of 110±1M is applied between the pins and the		
strands part from the	back to the plug exposing the inner core. A pull	səroə bətaluzni	
remain or no conductor	The jacket of the cord is removed all the way	To insminshia	.8
The inner core must	vew adt lie bavomar si bros adt to taviosi adT	30 4	
.nim č			
nithiw rights lenimon sti			
to mm8.0 mithin of muter	to a pull of 60±0.6M force from the pin for 10 min.		
2.4mm or the pins shall	betoejdus ment si 11 min 01 rot said eth (grindzuq)		
outward) by more than	S0±2°C where 60±0.6M force is applied inwards		
displaced (either inward or	50±2°C for I hour. The test is then carried out at	(sniq to gnixit)	
The pins shall not been	To prustanger at a secondition of gulq adT	Secureness of pins	٦.
CRITERIA	<b>SPECIFICATION REQUIREMENT</b>	LEST ITEM	ON
ACCEPTANCE			

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	Construction of tox		T
	for 20 complete cycles.		
	shall be a max of 50mm/s. The pins shall be		
	end shall be 7.5mm. The speed of deflection		
	plug. The distance of travel from the start to the		
	at a distance of 14+/-0.5mm from the face of the		
	The force is applied perpendicular to the pin and		
	of the plug and then back to the starting point.	(ylno sniq gnitsluzni	
broken off.	THE WILLIAM THE STORY OF THE HOUSE WAS TO STORY THE	driw gulq 104)	
The pins shall not be	The live and neutral pins are tested individually	Pin Bending Test	18
ad ton Hade anim attr	collar.		
	abrasion is approx. 7mm over the insulating	i	
	ment is 20,000 and the length of pin subjected to		
	a force of 4N on the pin. The number of move-		
·	10° to the horizontal. The sample is loaded with	1	
	The pin of sample slopes downwards at angle of		<b>LI</b>
No damage to the sleeve.	allowed to come back to room temperature.		1
	on different parts of the sleeves. The plug is than		
	24 hours prior to the test. 4 impacts shall be made	(Company) of Symmetry	
	maintained at the testing temperature for at least		
,	-15±2°C. The whole set-up shall have been	diiw gulq 104)	
shall occur.	of 100mm on the sleeve at a temperature of		
No crack on the material	A mass of 100±1g ghall be made to fall at a height	Impact test at low	91
(71 məti) test noisarda			1
voltage test (item 2) and			İ
resistance (item 1), high	•	(ylno smiq gnitsluzni	
test of insulation	hours and than returned to room temperature.	thiw gulq 104)	
The sample shall pass the	12 tase of to Tot O°S±2 l- as benistinism si gulq edT	Low temperature test	ŞI
	teat moiserd ( (a)		
	(a) Migh voltage test		
	temp., the plug shall be subjected to; (a) Insulation resistance test		
	After this treatment and after recovery to room		
sleeve.	temp. $25 \pm 3^{\circ}$ C and upper temp. $40^{\circ}$ C.		
(c) No damage to the	(12 + 12h cycle), 95% relative humidity, lower	(Vlno sniq	
voltage or flash over.	accordance with IEC 60068-2-30 as specified; Db		
(b) No breakdown in	The plug is subjected to two damp heat cycles in	Static damp heat test	τī
.mdoM & .miM (s)	of orders tood and a state of the tree	(Vino aniq gnitsluani	
than 50%.	water to bring it to room temperature within 10s.	(For plug with	
been reduced by more	of 160±5°C. The sample is than cooled in cold	sniq bətaluzni	
ever impression shall not have		high temperature on	
To inioq out the point of	Sleeve of the pins for 2 hours in a temperature	Pressure test at	εI
The thickness of the	A blade with a force of 2.5N is applied on the	10 1001 outroon(I	
CRITERIA	<b>РЕСІРІСАТІОИ ВЕОПІВЕМЕИТ</b>	LEST ITEM	ON.
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£1/£0/0£	CHANGE 'TEST RESULT' TO 'ACCEPTANCE CRITERIA'.	ΨK
71/L0/60	ADD IN CATALOGUE NO. APC13HC.	ſ∀
DATE	DESCKIBLION	ΚEΛ

### 3. CONNECTOR

3.1. SCOPE

The connector shall be in accordance with Australian Standard AS/NZS 60320.1, approval and test specification - appliance couplers

3.2. CONSTRUCTION

3.3. CHARACTERISTICS

The connector construction shall comply with our catalogue No: VI625, VI625A, VAC13G, 
VAC19H, V1625H, APC13FH & APC13HC. "ALL Connectors complying to Standard Sheet C5, C13, C15, C15A, C17 & C19"

TITLE:	DRAWN: HONGYAN 30/03/13		
temperature rise test.	temperature of 120°C±2°C on the pins.		
The test is repeated after	The test is repeated for hot connector with	1	
		1	
	weight and a supplementary weight of 10%.		
	of a principal weight which is 90% of the total	•	
The connector must be	weight of 50N(60N for 16A). The weight consist		
height of 5cm and drop.	inserted again into the socket hang with a total		
s mori befili si iligiew	minimum for 10 times. The connector is then	i .	
If not the supplementary	to the maximum and shroud dimension to the		
withdrawn from the socket.	the connector from a socket having pin dimension		
ii) The connector shall be	ii) Max. 50N (60N for 16A) - Insert and withdraw		
·	connector is tested seperately.		
	connector). Each individual pole of the		
more than 3 seconds.	should exert a force of 1.5N (2N for 16A		
from the connector for	connector. The pin, together with the weight		
should not be withdrawn	o the minimum dimension is inserted into the	I .	
ingiew ent of the mid of T (i	i) Min. 1.5N (2N for 16A) - A single pin made		<u>'</u> †
	after 60s $\pm$ 5s of application of voltage.	· ·	
	moisture resistance test.Readings are taken	18 <del>9</del> 1	
midO M & .niM	This test is measured with a D.C 500V after the	Insulation resistance	3.
	moisture resistance tests.		
	between each contacts respectively after the		
·	between current-carrying contact and body and		
suq pıeskdown	min. trip current of 100mA is applied for 60s±5s	<b>3</b>	
No flashover	Voltages of 4000V±60V and 2000V±60V, with	Electric strength	7.
	duration of 48 hours.		
	to 95% and a temperature of $20^{\circ}\text{C-}30^{\circ}\text{C}$ for a		
	19 neewted yiling hative humidity between	<b>1</b> 291	
No damage	Samples are kept in a humidity cabinet con-	Moisture resistance	1.
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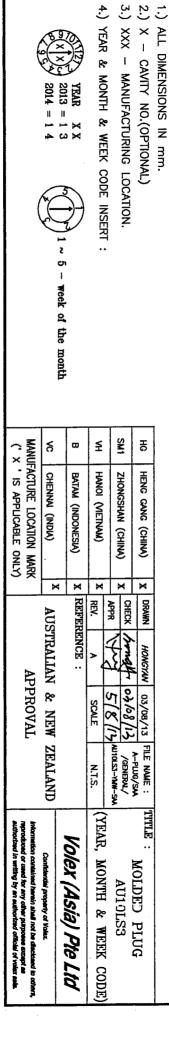
	0.25Mm(others).		
than 2mm.	To (2mm27.0)mN21.0 to a torque of 0.15Mm(0.75mm.1		
been displaced by more	without jerk. Thereafter the cord is subjected for		
damaged and shall not	60N(others) for 100 times each time for 1 sec.	test	
The cord shall not be	The cord is subjected to pulls of 50N(2.5) or	Cord-anchorage	.11.
	and each of the current carrying contacts.		
	earth contact passing current between earth		
	for 1 hour. This is repeated for connector with		
rise shall not exceed 45K.	is passed through the current carrying contacts	1891	
The temperature	An alternating current at I.25 times rated current	Temperature rise	.01
	3000 times (6000 strokes) without current.		
damage	1000 times (2000 strokes) with rated current and		
on wods bas ,aim I	commected and disconnected with the inlet for		
strength at 1500V for	the test voltage is 250V with the connector	1891	
Withstand electric	Test is similar to breaking capacity except that	Normal operation	.6
further use of connector.	rated current.		
no damage to impair	strokes per minute with 275Y and 1.25 times of		
arcing during the test and	times (100 strokes) with the inlet at a rate of 30	1291	
	The connector is connected and disconnected 50	Breaking Capacity	8.
No flashover or sustained	a steel plate(3mm thick) for a total of 500 times.	1891	$\vdash$
further use of connector.	The sample is dropped from a height of 500m onto	gnildmuT	./
Tisqui of egamab oV	the cable.	paildoug	<del>  -</del>
	The recentle is flexed only along the bigger axis of		
	The flexing is further completed in this axis.		
	around the axis of cable after 10,000 cycles.		
	For round cord, the sample is turned 90 degree		
_	20,000.A rated current is applied.		
pierced the insulation.	side of the vertical) the number of flexing being		
conductor shall not have	forward through an angle of 90°(45° on either		
conductors. Broken	oscillating member shall be moved backward and		
breakage of any of the	ort bas reggid to 2mm00.1 rof M02 to 2mm27.0 rof	1291	
There shall be no complete	The sample shall be loaded with a weight of 10N	Bending	6.
paper.			
droplets shall not ignite			
the glow wire and molten			
30s upon the removal of	- 650 $^{\circ}$ C on elsewhere.		
self-extinguished within	- 750°C on inserts and housing retaining contacts		
Flame (if any) shall be	Glow wire is applied for 30s	Glow wire test	5.
		· · · · · · · · · · · · · · · · · · ·	
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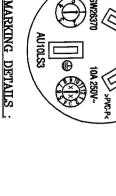
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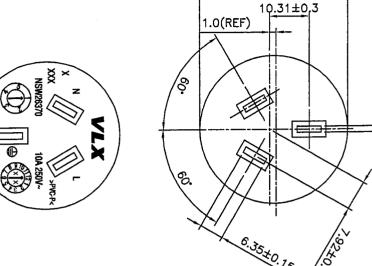
	temperature with cold water.		
	The connector is then cooled down to room		
	iii) 75°C for other parts for cold connector.		
	and earth circuit.		
	ii) 125°C for parts retaining current carrying parts		
	i) 125°C for hot connectors.		
exceed 2mm.	20N force for 1 hour.		
ton Ilada noisesarqmi	connector with the following temperature with	test	
The diameter of the	A ball of 5mm in diameter is applied on the	Ball pressure	15.
shall be legible.	cabinet at a temperature of 80±2°C.	1291	
No damage & marking	The samples are kept for 168 hours in a heating	gnigA	.41
further use of connector.	100°C ± 2°C for 1 hour.	1891	
No damage to impair	A pressure of 2001 is applied at a temperature of	Heat pressure	13.
further use of connector.	at temperature of 100±2°C.	1891	
No damage to impair	Samples are kept for I hour in a heating cabinet	Heat deformation	12.
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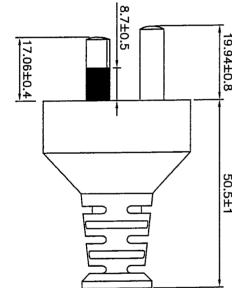
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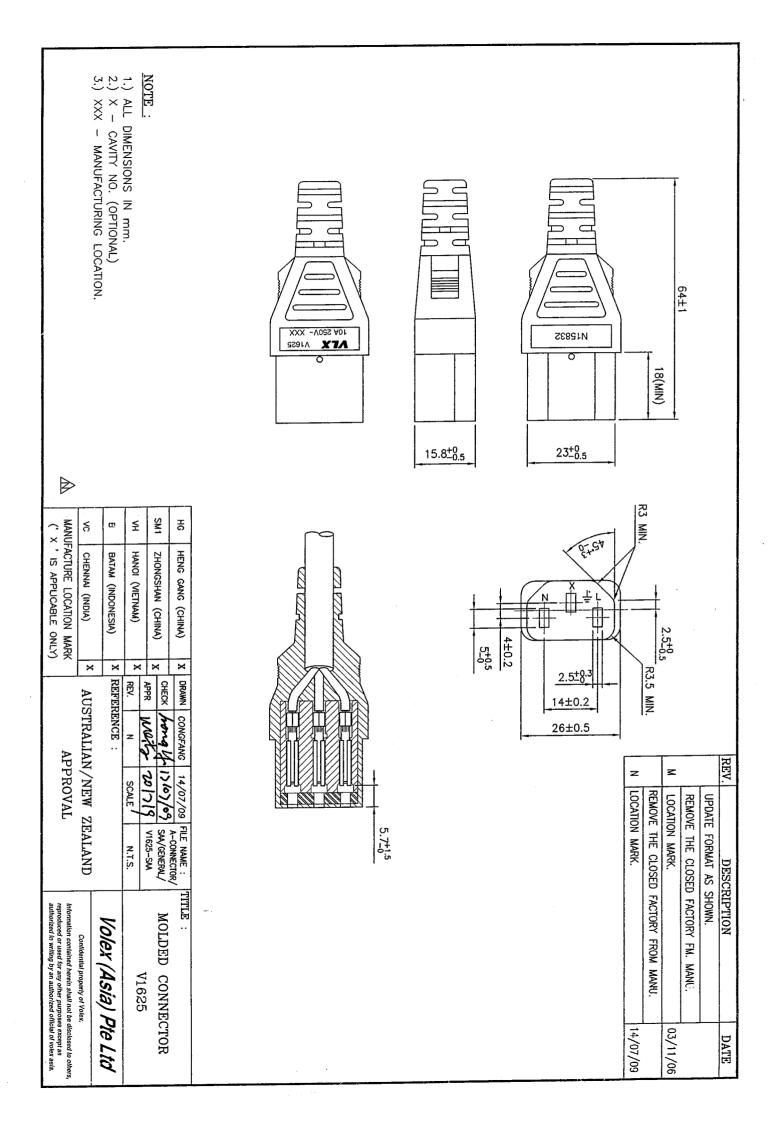
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03/08/13 DATE



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