

# SPECIFICATION

FOR

CHINESE POWER SUPPLY CORDSET (PB FR)

CORD : RVV 300/500 3X1.00mm<sup>2</sup> PVC LEAD FREE

CUSTOMER : VPE/FARNELL

CUSTOMER'S PART No. : 2460379

VOLEX'S SPEC. REF. No. : 143024/5

ISSUE No. : 003

DATE : 12TH JULY 2021

CUSTOMER APPROVED :

APPROVED BY	:	
SIGNATURE	:	
APPROVED DATE	:	
No. OF PAGES	:	



*Volex (Asia) Pte Ltd*

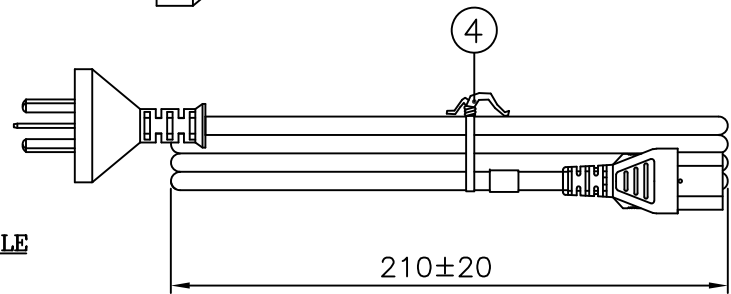
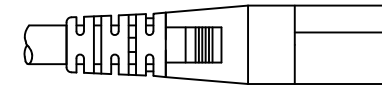
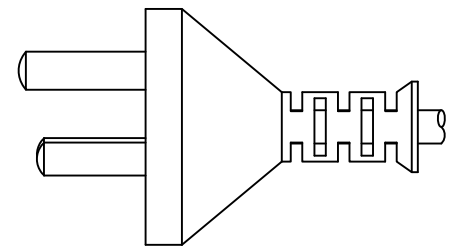
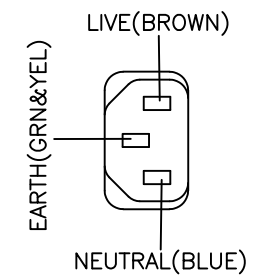
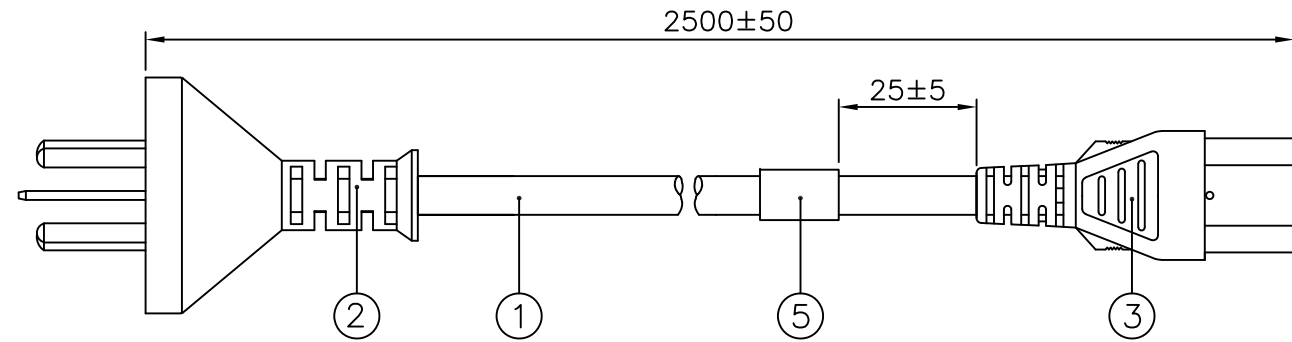
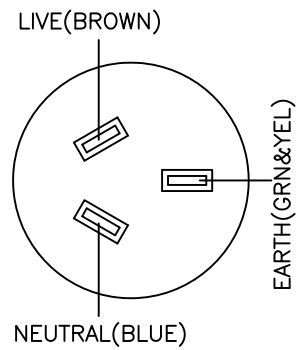
35 Tampines St. 92

Singapore 528880

Tel : (65) 6788 7833

Fax : (65) 6788 7822





**APPROVED SOURCE FOR CABLE**

1. BAO HING(SHENZHEN).

**NOTE :**

1. ALL DIMENSIONS IN mm.
2. THE CORD SHALL COMPLY WITH GB/T5023-2008.
3. THE MOLDED PLUG SHALL COMPLY WITH GB2099.1-2008 AND GB1002-2008.
4. THE MOLDED CONNECTOR SHALL COMPLY WITH GB17465.1.
5. THE CORDSET SHALL COMPLY WITH CHINA RoHS.
6. LABEL DETAILS : REFER TO LABEL DRAWING NO. : VL-0234.
7. THIS PART CAN BE MANUFACTURED AT ANY LOCATION WHICH HAS SAFETY APPROVAL.

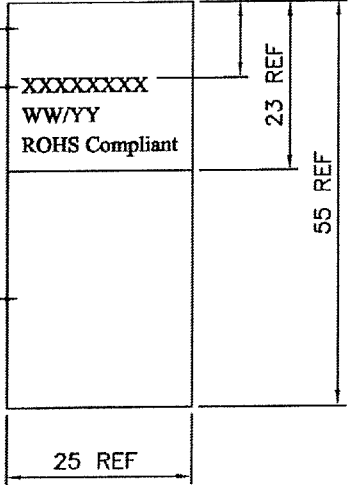
5	PRINTED LABEL	VL-0234	1
4	6" PE TIE BLK	6310056	1
3	IP60G NL7976B BLK	4100115	-
	MOLDED CONNECTOR V1625 (10A 250V)	V1625	1
2	IP60G NL7976B BLK	4100115	-
	MOLDED PLUG V3203C (10A 250V)	V3203C	1
1	RVV 300/500 3X1.00 BLK PVC LEAD FREE (CCC)	3212052	1
S/N	DESCRIPTION	ITEM NUMBER	QTY
TITLE : CHINESE POWER SUPPLY CORDSET (PB FR)		SCALE : N.T.S.	
CUSTOMER : VPE/FARNELL		PAGE : 1/1	
CUSTOMER PART NUMBER : 2460379		ISSUE	
Reference Number : 143024/5 (VPE07-032-21)		003	
SALES :	QA :	ENGRG : <i>Wong</i>	CHECKED BY : <i>Wong</i>
			DRAWN BY : MEI MAN
Date :	Date :	Date : 23-07-21	Date : 12/07/21
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DRAWING NUMBER :  
VL-0234

REVISION :  
F

COLOUR : WHITE

CUSTOMER P/N  
e.g. 17032A 10 B1



COLOUR : TRANSPARENT

**NOTES :**

1. ALL DIMENSION IN MM.
2. GENERAL TOLERANCE ±2MM, UNLESS OTHERWISE SPECIFIED.
3. WHITE BACKGROUND WITH BLACK PRINT.
4. FONT: TIMES NEW ROMAN; HEIGHT: 2.0MM.
5. PRINTED MARKING SHALL BE DURABLE & LEGIBLE, SURFACE RUBBED WITH THUMB PRESSURE BACK & FORTH 10X, AND INK SHOULD NOT SMEAR.
6. PRINTER/RIBBON TYPE: TEC B-572 OR TEC B-672/905019 OR 905034.  $\Delta$
7. FOR CUSTOMER SANMINA-SCI KUNSHAN, PLS PRINT CUSTOMER'S PART NUMBER UNDER FG LIST AS INDICATED IN TABLE . PLS REFER TO TABLE.
8. THE PROGRAM VL0234E-1 IS USED FOR CUSTOMER'S P/NO LESS THAN 13 CHARACTERS.  
THE PROGRAM VL0234E-2 IS USED FOR CUSTOMER'S P/NO MORE THAN 12 CHARACTERS.

**TABLE**

FG LIST	CUSTOMER PART NUMBER
70700044401-DSA	17742 10 B1

1	TRANSPARENT OPP LABEL 55X25MM	6102464	
S/N.	DESCRIPTION	ITEM NO.	REMARKS
	TITLE : WRAPAROUND CORD LABEL 55X25MM		<b>Volex (Asia) Pte Ltd</b>
	PRINT FILE: VL0234F	SCALE: 1 : 1	PROJ.:  THIRDO ANGLE
	FILENAME: \\LABEL\NHOUSE-VL\VL-0234	PAGE: 1/1	<small>Confidential property of Volex. Information contained herein shall not be disclosed to others, reproduced or used for any other purposes except as authorized in writing by an authorized official of Volex Asia.</small>

DRAWN :	Li Xianjun	REV	SR/VECR	BY	DATE	REV	SR/VECR	BY	DATE
RELEASED :	22/12/04	A	ESG12-143-04	Li XJ	18/01/05	E	062767	ALICE	25/12/06
	SIGN	DATE	B	052161	Li XJ	19/08/05	F	120686	ALICE
CHECKED :		3/9/12	C	053213	PETER	19/12/05			
APPROVED :		3/9/12	D	062620	PETER	30/11/06			

REV.	DESCRIPTION	DATE
C	UPDATE VALUES AS PER PRODUCT SAFETY.	10/09/04
D	CHANGE STANDARD NO. & CABLE OVERALL	16/10/09
	DIAMETER PER SAFETY.	

## 1. PVC INSULATED AND JACKETED FLEXIBLE CORD

### 1.1 SCOPE

This specification shall be in accordance with GB/T5023-2008.  $\Delta$

### 1.2 CONSTRUCTION

CONDUCTOR	ANNEALED COPPER WIRE
INSULATION	PVC (BLUE, BROWN AND GREEN&YELLOW)
JACKET	PVC

ITEM	UNIT	SPEC. VALUE	
TEMPERATURE RATING	°C	70	
RATED VOLTAGE	V	300/500	
NO. OF CORE	NO.	3	
CONDUCTOR NOMINAL AREA	mm <sup>2</sup>	1.00	
MIN. AVE. THICKNESS OF INSULATION	mm	0.60	
MIN. THICKNESS AT ANY POINT OF INSULATION	mm	0.44	
MIN. AVE. THICKNESS OF JACKET	mm	0.80	
MIN. THICKNESS AT ANY POINT OF JACKET	mm	0.58	
OVERALL DIAMETER OF JACKET	mm	6.3~8.0 $\Delta$	
VOLTAGE TEST – IMMERSED IN WATER 20±5°C FOR MINIMUM 1 HR	ON COMPLETED CABLE	–	2000 V for 5 mins (minimum)
	ON CORES	–	1500 V for 5 mins (minimum)
INSULATION RESISTANCE TEST (70°C)	M $\Omega$ km	>0.01	
CONDUCTOR RESISTANCE (20°C)	$\Omega$ /km	$\leq$ 19.5	

TITLE : CABLE SPECIFICATION  
CHINA APPROVED POWER SUPPLY CABLE  
RVV 300/500V 3X1.00mm<sup>2</sup>

SPEC NO. : CS-019CH	APPROVED BY :	CHECKED BY :	DRAWN BY :	REVISION :
	DATE :	DATE :	DATE :	PAGE :
	<i>Wet</i>	<i>Hongyan</i>	HONGYAN	D
	19/10/09	16/10/09	16/10/09	1/1

**Volex**

REV.	DESCRIPTION	DATE
E	ADD IN NEW MARKING PER ECN012-09.	14/09/09
	ADD IN NOTE 1.	
F	REMOVE OLD MARKING PER ECR091565.	28/07/10
	REMOVE NOTE 1.	

CABLE MARKING

BAO HING (SHENZHEN)



60227 IEC 53(RVV) 300/500V 3X1.0mm<sup>2</sup> CCC A002152  
 2002010105010385 BAOHING LF



DRAWN	HONGYAN	28/07/10	FILE NAME :	TITLE : CABLE MARKING  (CCC)
CHECK	<i>Hongyan</i>	28/07/10	C MARKING/RVV/ RV 300/500 3X1.0	
APPR	<i>Wang</i>	28/7/10	LF (CCC)-BH	
SCALE	N.T.S.	REV.	F	
REFERENCE :				<b>Volex</b>
RW 300/500V 3X1.0mm <sup>2</sup> LF (CCC)				

## 2. PLUG

REV	DESCRIPTION	DATE
AF	ADD IN CATALOGUE NO. MSGB10S2.	25/02/20
AG	ADD IN CATALOGUE NO.VNBGB10A3.	27/07/20

### 2.1. SCOPE

The plug shall be in accordance with GB2099.1-2008 and GB1002-2008.

### 2.2. CONSTRUCTION

The plug construction shall comply with our catalogue No: V301C, GB16C, V3203C, V3203CA, GB10S2, GB10S3, GB16CA, GB10BS, GB10A3, GB10DS2, GB16HA3 MFGB10S2, APGB10S3, APGB10S2, VNGB10S3, VNGB10S2, XMGB10A2, QMGB10A3, GB10FA2, SMGB10A3, SMGB10A3B, VBGB10S2, VNBGB10S2, VNBGB10S3, MSGB10S2 & **VNBGB10A3**.

### 2.3. CHARACTERISTICS

NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
1.	Moisture resistance test	Samples are kept in a humidity cabinet containing air with a relative humidity between 91 to 95% and a temperature of 40±2°C for a duration of 48 hours.	No damage
2.	Electric strength test	A voltage of A.C 2000V with a trip current of min. 100mA is applied for 1 min after the moisture resistance test..	No flashover and breakdown
3.	Insulation resistance test	This test is measured after 1 min. application of D.C 500V after the moisture resistance test.	Min. 5 M Ohm
4	Pressure test	The plug is pressed with a force of 150N for 5 minutes.	The plug shall not have been deformed.
5.	Temperature rise test	An alternating current of 10A (0.75mm <sup>2</sup> ), 12A (1mm <sup>2</sup> ) or 16A (1.5mm <sup>2</sup> ) is passed through poles for 1 hour.	The temperature rise at any points shall not exceed 45°C.
6.	Bending test	The sample shall be loaded with a weight of 10N for 0.75mm <sup>2</sup> or 20N for 1.00mm <sup>2</sup> and bigger and the oscillating member shall be moved backward and forward through an angle of 90° (45° on either side of the vertical) the number of flexing being 10,000.A current of 10A (0.75mm <sup>2</sup> ) or 16A (1.0mm <sup>2</sup> and above) is passed through the conductors.	No damage and the voltage drop shall not exceed 10mV.
7	Pin pull test	A pull force of 50N is applied on the pins (in turn) after the plug has been aged for 1 hour at 70°C.	The displacement of the pin shall not be more than 1 mm.

DRAWN:	FAN LIAN	27/07/20	TITLE :  CHINESE PLUG
CHECK:	<i>ROB-W</i>	27/07/20	
APPR:	<i>Feng</i>	27/07/20	
REV:	AG		
REFERENCE:			<b><i>Volex (Asia) Pte Ltd</i></b>
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NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
8	Tumbling test	The samples are dropped from a height of 50cm onto a steel plate (3mm thick) for a total of 1000 times. A torque of 0.4Nm is applied in one direction for 1 min. first then follow by the other direction for another min. on the pins.	No damage and the pins shall not turn.
9	Cold impact test	The samples are kept in a refrigerator at a temperature of - 15±2°C for at least 16 hours. The samples are then allowed to fall by the hammer (1000g) from a height of 10cm.	No damage
10	Heat deformation test	The samples are kept for 1 hour in a heating cabinet at temperature of 100±5°C.	No damage
11	Heat pressure test	The samples are applied 20N (2.04kgf) at a temperature of 80±2°C for 1 hour.	No damage
12	Ageing test	The samples are kept for 168 hours in a heating cabinet at temperature of 70±2°C.	No damage
13	Pressure test II	The samples are applied 300N (30.6kgf) at a temperature of 20±2°C for 1 min.	No damage
14	Cord-anchorage test	The cord is subjected to pulls of 50N (2.5A) or 60N (10/16A) force 100 times without jerk each lasting 1 sec. Thereafter the cord is subjected to a torque of 0.15Nm (2 core 0.75mm <sup>2</sup> ) or 0.25Nm (others) for 1 min.	The cord shall not be damaged and shall not been displaced by more than 2mm.
15	Ball pressure test	A steel ball of 5mm in diameter is applied with 20N force on the sample at a temperature of 125±5°C for 1 hour on the insert.. The sample is than cooled by cold water.	The diameter of the impression shall not exceed 2mm.
16	Glow wire test	The tip of the glow wire heated electrically to 750±10°C shall be applied at the portion between the current-carrying pins and for a period of 30s. For all other parts, the wire is heated to 650±10°C.	Any flame and glowing shall extinguish within 30s after the removal of the glow-wire. There shall be no ignition of the tissue papernor sorching of the board.

DRAWN:	FAN LIAN	27/07/20	TITLE :  CHINESE PLUG
CHECK:	ROB/N	27/07/20	
APPR:	Feng	27/07/20	
REV:	AG		
REFERENCE:			<b><i>Voilex (Asia) Pte Ltd</i></b>
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3. CONNECTOR	REV	DESCRIPTION	DATE
	BC	ADD IN CATALOGUE NO. HPC13S.	31/08/20
	BD	ADD IN CATALOGUE NO. VNBC5S.	05/01/21

### 3.1. SCOPE

The connector shall be in accordance with GB17465.1,  
Test specification - appliance couplers.

### 3.2. CONSTRUCTION

The connector construction shall comply with our catalogue No:V1625, V1625A, VAC19, VAC5S, APC5S, APC5A, APC5M, VAC17S, VSCC13, APC13, APC13S, APC5SP, DLC5A3, VAC19A, APC5SM, APC13F, VAC15A, APC13G, VAC5AR, VAC13A, VAC13S, VSC19, PIC17S, VSCC15, VAC13KS, DLC5U3, V1625H, DLC5E3, V1625AT, APC5SF, VAC19KS, APC13H, V1625LA, VAC19HC, VAC17A, APC13HC, V1625BS, VNC13S, HWC13U, VNC5S, VAC13AU, VNC13A, V1625BA, VAC13AD, VAC19LA, SMC5S3, VNC21S, SMC5S3B, VNBC13S, VSCC21, HPC13S & **VNBC5S**.

"All Connectors complying to Standard Sheet C5, C13, C15, C17, C19 & C21".

### 3.3. CHARACTERISTICS

NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
1.	Moisture resistance test	Samples are kept in a humidity cabinet containing air with a relative humidity between 91 to 95% and a temperature of 40±2°C for a duration of 48 hours.	NO damage
2.	Electric strength test	Voltages of 3000V±60V and 1500V±60V, with min. trip current of 100mA is applied for 60s±5s between current-carrying contact and body and between each contacts respectively after the moisture resistance tests.	No flashover and breakdown
3.	Insulation resistance test	This test is measured with a D.C 500V after the moisture resistance test. Readings are taken after 60s ± 5s of application of voltage.	Min. 5 M Ohm
4.	Withdrawal force test	<p>i) Min. 1.5N (2N for 16A) - A single pin made to the minimum dimension is inserted into the connector. The pin, together with the weight should exert a force of 1.5N (2N for 16A connector). Each individual pole of the connector is tested separately.</p> <p>ii) Max. 50N (60N for 16A) - Insert and withdraw the connector from a socket having pin dimension to the maximum and shroud dimension to the minimum for 10 times. The connector is then inserted again into the socket hang with a total weight of 50N(60N for 16A). The weight consist of a principal weight which is 90% of the total weight and a supplementary weight of 10%.</p> <p>The test is repeated for hot connector with temperature of 120°C±2°C on the pins.</p>	<p>i) The pin with the weight should not be withdrawn from the connector for more than 3 seconds.</p> <p>ii) The connector shall be withdrawn from the socket. If not the supplementary weight is lifted from a height of 5cm and drop. The connector must be withdrawn.</p> <p>The test is repeated after temperature rise test.</p>

DRAWN:	FUWANG	05/01/21
CHECK:	ROB-W	5/1/21
APPR:	Chum	05/01/21
REV:	BD	
REFERENCE:		

TITLE :  
CHINESE CONNECTOR

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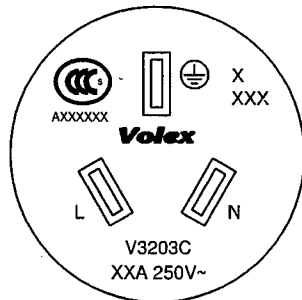
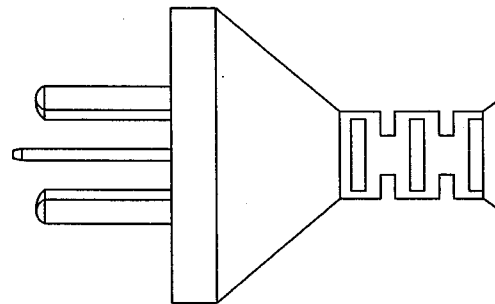
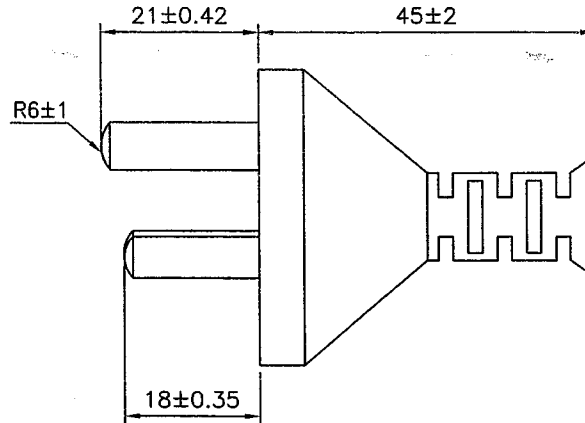
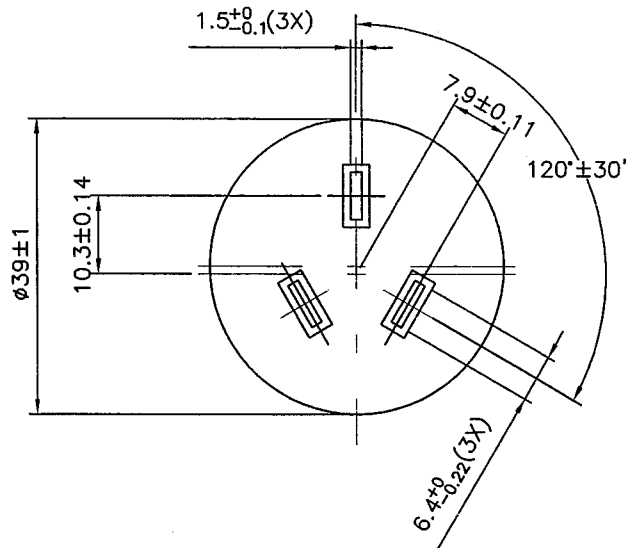
NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
5.	Glow wire test	Glow wire is applied for 30s - 750°C on inserts and housing retaining contacts - 650°C on elsewhere.	Flame (if any) shall be self-extinguished within 30s upon the removal of the glow wire and molten droplets shall not ignite paper.
6.	Bending test	The sample shall be loaded with a weight of 10N for 0.75mm <sup>2</sup> or 20N for 1.00mm <sup>2</sup> or bigger and the oscillating member shall be moved backward and forward through an angle of 90°(45° on either side of the vertical) the number of flexing being 20,000. A rated current is applied. For round cord, the sample is turned 90 degree around the axis of cable after 10,000 cycles. The flexing is further completed in this axis. Flat cable is flexed only along the bigger axis of the cable.	There shall be no complete breakage of any of the conductors. Broken conductor shall not have pierced the insulation.
7.	Tumbling test	The sample is dropped from a height of 50cm onto a steel plate(3mm thick) for a total of 500 times.	No damage to impair further use of connector.
8.	Breaking Capacity test	The connector is connected and disconnected 50 times (100 strokes) with the inlet at a rate of 30 strokes per minute with 275V and 1.25 times of rated current.	No flashover or sustained arcing during the test and no damage to impair further use of connector.
9.	Normal operation test	Test is similar to breaking capacity except that the test voltage is 250V with the connector connected and disconnected with the inlet for 1000 times (2000 strokes) with rated current and 3000 times (6000 strokes) without current.	Withstand electric strength at 1500V for 1 min, and show no damage
10.	Temperature rise test	An alternating current at 1.25 times rated current is passed through the current carrying contacts for 1 hour. This is repeated for connector with earth contact passing current between earth and each of the current carrying contacts.	The temperature rise shall not exceed 45K.
11.	Cord-anchorage test	The cord is subjected to pulls of 50N(2.5A) or 60N(others) for 100 times each time for 1 sec. without jerk. Thereafter the cord is subjected for 1 min. to a torque of 0.15Nm(0.75mm <sup>2</sup> ) or 0.25Nm(others).	The cord shall not be damaged and shall not be displaced by more than 2mm.
12.	Heat deformation test	Samples are kept for 1 hour in a heating cabinet at temperature of 100±2°C.	No damage to impair further use of connector.

DRAWN:	FUWANG	05/01/21	TITLE : CHINESE CONNECTOR
CHECK:	<i>ROBSON</i>	<i>5/1/21</i>	
APPR:	<i>Chum</i>	<i>05/01/21</i>	
REV:	BD		
REFERENCE:			<b><i>Voilex (Asia) Pte Ltd</i></b>
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NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
13.	Heat pressure test	A pressure of 20N is applied at a temperature of 100°C ± 2°C for 1 hour.	No damage to impair further use of connector.
14.	Aging test	The samples are kept for 168 hours in a heating cabinet at a temperature of 80±2°C.	No damage & marking shall be legible.
15.	Ball pressure test	A ball of 5mm in diameter is applied on the connector with the following temperature with 20N force for 1 hour. i) 125°C for hot connectors. ii) 125°C for parts retaining current carrying parts and earth circuit. iii) 75°C for other parts for cold connector. The connector is then cooled down to room temperature with cold water.	The diameter of the impression shall not exceed 2mm.

DRAWN:	FUWANG	05/01/21	TITLE : CHINESE CONNECTOR
CHECK:	<i>ROBIN</i>	<i>5/1/21</i>	
APPR:	<i>Chun</i>	<i>05/01/21</i>	
REV:	BD		<b><i>Volex (Asia) Pte Ltd</i></b> <small>Confidential property of Volex. Information contained herein shall not be disclosed to others, reproduced or used for any other purposes except as authorized in writing by an authorized official of volex asia.</small>
REFERENCE:			

REV.	DESCRIPTION	DATE
M	ADD IN MANU. LOCATION MARK 'SMI'.	05/02/10
N	ADD IN MANU. LOCATION 'BATAM' PER SAFETY.	15/09/10



**MARKING DETAILS**

**NOTES :**

- 1.) ALL DIMENSIONS IN mm.
- 2.) X - CAVITY NO. (OPTIONAL).
- 3.) XXX - MANUFACTURING LOCATION.
- 4.) XXA 250V~ - RATING. (REFER TO TABLE 1)
- 5.) AXXXXXX - FACTORY CODE. (REFER TO TABLE 2)

**TABLE 1 :**

CURRENT (XXA)	6A	10A	<input checked="" type="checkbox"/>

**TABLE 2 :**

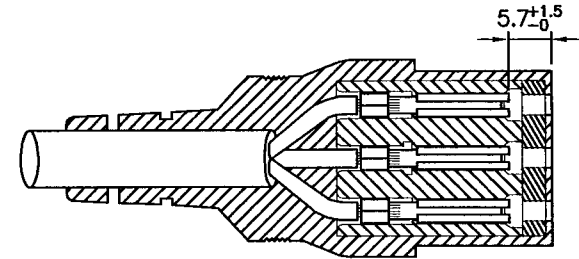
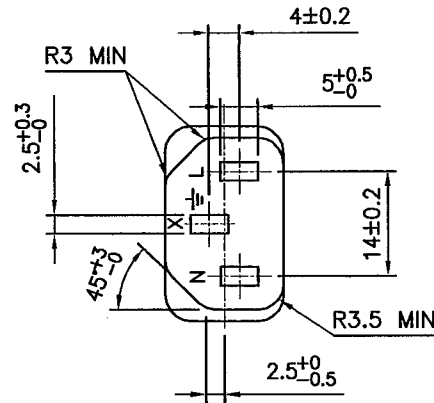
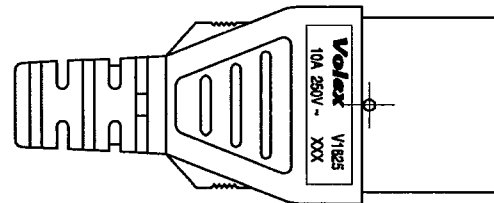
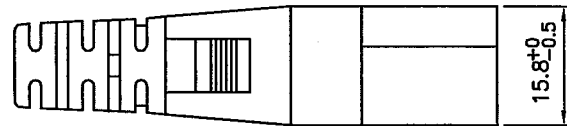
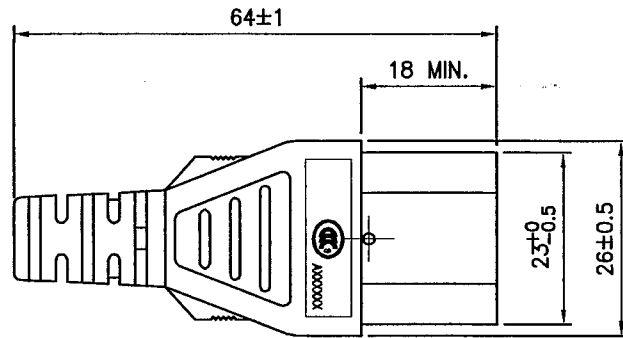
ITEM	COUNTRY	HENG GANG	ZHONGSHAN	HANOI	BATAM
FACTORY CODE		A001520	A001484	A002175	A072317

HG	HENG GANG (CHINA)	X	DRAWN	HONGYAN	15/09/10	FILE NAME :	TITLE : <b>MOLDED PLUG</b> <b>V3203C</b>
SM1/SMI	ZHONGSHAN (CHINA)	X	CHECK	<i>Hongyan</i>	<i>15/09/10</i>	A-PLUG/CHINA/CCC/GENERAL/V3203C-CCC	
VH	HANOI (VIETNAM)	X	APPR	<i>Wong</i>	<i>15/9/10</i>	N.T.S.	
B	BATAM (INDONESIA)	X	REV.	N	SCALE	N.T.S.	
VC	CHENNAI (INDIA)		REFERENCE :				<b>CHINESE APPROVAL</b>  <small>Confidential property of Volex. Information contained herein shall not be disclosed to others, reproduced or used for any other purposes except as authorized in writing by an authorized official of volex asia.</small>
MANUFACTURE LOCATION MARK (' X ' IS APPLICABLE ONLY)							



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REV.	DESCRIPTION	DATE
J	ADD IN MANU. LOCATION MARK 'SMI'.	08/02/10
K	ADD IN MANU. LOCATION MARK 'B'.	15/06/12



**MARKING DETAILS**

**TABLE :**

ITEM	COUNTRY	HENG GANG	ZHONGSHAN	HANOI	BATAM
		A001520	A001484	A002175	A072317

**NOTES :**

- 1.) ALL DIMENSIONS ARE IN mm.
- 2.) X - CAVITY NO.(OPTIONAL)
- 3.) XXX - MANUFACTURING LOCATION
- 4.) AXXXXXX - FACTORY CODE (REFER TO TABLE)



HG	HENG GANG (CHINA)	X	DRAWN	XIAOZHI	15/06/12	FILE NAME :	TITLE :
SM1/SMI	ZHONGSHAN (CHINA)	X	CHECK	<i>hong</i>	15/06/12	A-CONNECTOR/CHINA	MOLDED CONNECTOR V1625
VH	HANOI (VIETNAM)	X	APPR	<i>WZ</i>	15/6/12	/CCC/GENERAL/ V1625-CCC	
B	BATAM (INDONESIA)	X	REV.	K	SCALE	N.T.S.	<b>Volex (Asia) Pte Ltd</b> <small>Confidential property of Volex. Information contained herein shall not be disclosed to others, reproduced or used for any other purposes except as authorized in writing by an authorized official of volex asia.</small>
VC	CHENNAI (INDIA)		REFERENCE :				
MANUFACTURE LOCATION MARK (* X * IS APPLICABLE ONLY)			CHINESE APPROVAL				