

SPECIFICATION

FOR

NORTH-AMERICAN POWER SUPPLY CORDSET (PB FR)

CORD : SJT 18/3 60°C PVC LEAD FREE

CUSTOMER : VPE/RS COMPONENTS

CUSTOMER'S PART No. : 7316163

VOLEX'S SPEC. REF. No.: 144307/10

ISSUE No. : 002

DATE : 10TH JANUARY 2017

CUSTOMER APPROVED :

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



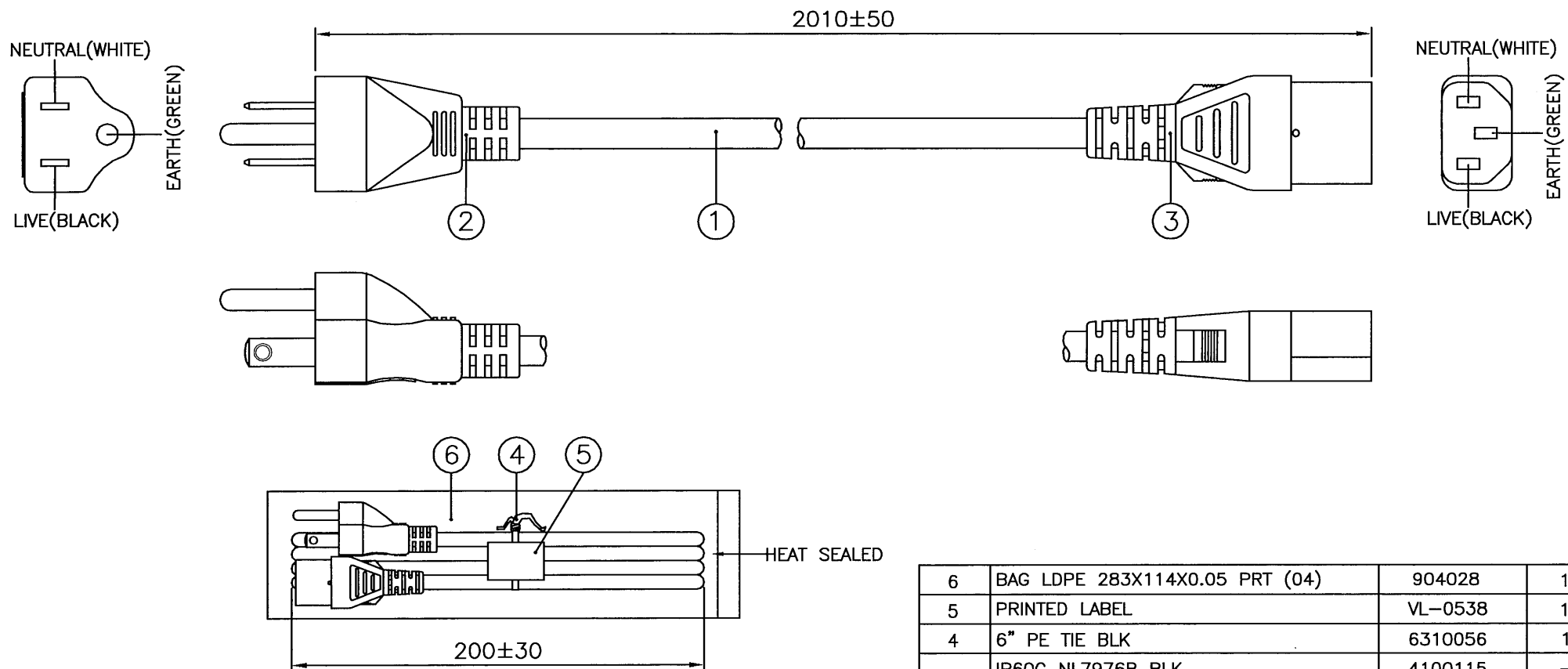
Volex (Asia) Pte Ltd

35 Tampines St. 92
Singapore 528880

Tel : (65) 6788 7833
Fax : (65) 6788 7822

AMENDMENT RECORD

[illegible]



APPROVED SOURCE FOR CABLE

1. BAO HING(SHENZHEN).
2. TA HSING(SHENZHEN).

NOTE :

1. ALL DIMENSIONS IN mm.
2. THE CORD SHALL COMPLY WITH NMX-J-436-ANCE+CSA C22.2 NO.49+UL62.
3. THE MOLDED PLUG SHALL COMPLY WITH UL498, UL817 AND CSA C22.2 NO.21-95.
4. THE MOLDED CONNECTOR SHALL COMPLY WITH UL817, CSA C22.2 NO. 21-95 AND C22.2 NO. 182.3-M1987.
5. LABEL DETAILS :
REFER TO LABEL DRAWING NO. : VL-0538.
6. THIS PART CAN BE MANUFACTURED AT ANY LOCATION WHICH HAS SAFETY APPROVAL.

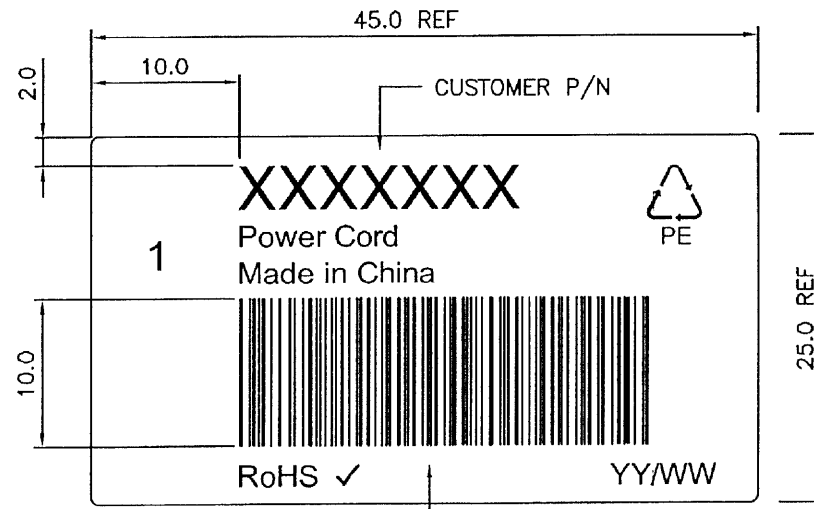
6	BAG LDPE 283X114X0.05 PRT (04)	904028	1
5	PRINTED LABEL	VL-0538	1
4	6" PE TIE BLK	6310056	1
3	IP60G NL7976B BLK	4100115	-
	MOLDED CONNECTOR V1625 (10A 125V)	V1625	1
2	IP40G NL792B BLK	4100017	-
	MOULDED PLUG PS204 (10A 125V)	PS204	1
1	SJT 18/3 60°C BWG BLK PVC LEAD FREE	1910107	1
S/N	DESCRIPTION	ITEM NUMBER	QTY
TITLE : NORTH-AMERICAN POWER SUPPLY CORDSET (PB FR)		SCALE : N.T.S.	
CUSTOMER : VPE/RS COMPONENTS		PAGE : 1/1	
CUSTOMER PART NUMBER : 7316163		ISSUE	
Reference Number : 144307/10 (VPE01-063-17)		002	
SALES :	QA :	ENGRG :	CHECKED BY :
		heith	hongyan
Date :	Date :	Date :	Date :
		13/01/17	13/01/17
			10/01/17
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DRAWING NUMBER :

VL-0538

REVISION :

B



BARCODE: CODE 128A, SCAN SHOW CUSTOMER P/N

NOTES :

1. ALL DIMENSION IN MM.
2. GENERAL TOLERANCE ± 2 MM, UNLESS OTHERWISE SPECIFIED.
3. YELLOW BACKGROUND WITH BLACK PRINT.
FONT: ARIAL, 1.5mm. BUT 2mm FOR '1', 3mm AND ARIAL BOLD FOR P/N.
4. PRINTED MARKING SHALL BE DURABLE & LEGIBLE, SURFACE RUBBED WITH THUMB PRESSURE BACK & FORTH 10X, AND INK SHOULD NOT SMEAR.
5. PRINTER/RIBBON TYPE: TEC B-SX5 OR DATAMAX/905018 OR 905021.
6. THE PROGRAM USE VL0538-2 FOR CUSTOMER PN MORE THAN 8 CHARACTERS.

1	ART PAPER LABEL 45X25MM	6102940	
S/N.	DESCRIPTION	ITEM NO.	REMARKS
TITLE : PE BAG LABEL			
PRINT FILE:	FILENAME :	SCALE :	PROJ. :
VL0538B	.. \LABEL\INHOUSE-VL\VL-0538	2 : 1	THIRD ANGLE
		PAGE :	1/1
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DRAWN :	ALICE HUA	REV	SRN/ECR	BY	DATE	REV	SRN/ECR	BY	DATE
RELEASED :	07/03/14	A	H306-010-14	ALICE	09/06/14				
	SIGN	DATE	B	140405	ALICE	22/08/14			
CHECKED :		22/8/14							
APPROVED :		22/8/14							

REV.	DESCRIPTION	DATE
D	ADD IN INSULATION COLOR 'BWGY' AS SHOWN.	19/05/06
E	CHANGE COMPLIANCE STANDARD & UPDATE	03/07/07
	VALUES PER PRODUCT SAFETY.	

1. PVC FLEXIBLE CORD

1.1 SCOPE

- △ This specification shall be in accordance with NMX-J-436-ANCE + CSA C22.2 NO.49 + UL 62.

1.2 CONSTRUCTION

CONDUCTOR	ANNEALED COPPER WIRE
INSULATION	PVC (BLACK, WHITE & GREEN OR BLUE, BROWN, GREEN&YELLOW OR BLACK, WHITE GREEN&YELLOW)
JACKET	PVC

ITEM	UNIT	SPEC. VALUE
TEMPERATURE RATING	°C	60
MAXIMUM VOLTAGE	V	300
NO. OF CONDUCTORS	NO.	3
△ SIZE OF CONDUCTORS	mm ² (AWG)	0.824 (18)
△ CONDUCTOR DIAMETER OF INDIVIDUAL WIRES	mm (in)	0.125-0.26 (0.0049-0.010)
△ MIN. AVE. THICKNESS OF INSULATION	mm (mils)	0.76 (30)
△ MIN. THICKNESS AT ANY POINT OF INSULATION	mm (mils)	0.69 (27)
△ MIN. AVE. THICKNESS OF JACKET	mm (mils)	0.76 (30)
△ MIN. THICKNESS AT ANY POINT OF JACKET	mm (mils)	0.61 (24)
△ OVERALL DIAMETER OF JACKET	mm (in)	7.62-8.51 (0.330-0.335)
DIELECTRIC-STRENGTH TEST- IN THE AIR 20±5°C	—	2000V for 1 min.
SPARK TEST	V/sec	6000/0.18 (For 50 Hz) 6000/0.15 (For 60 Hz)
△ INSULATION RESISTANCE AT 15°C	—	>=0.76Gohm (2.5 Mohm 1000 ft)

TITLE : CABLE SPECIFICATION

UL/CSA APPROVED POWER SUPPLY CABLE

SJT 18/3 60°C

SPEC NO. :
CS-116UL

APPROVED BY :

Longyuan

CHECKED BY :

Wai

DRAWN BY :

QIAN SM

REVISION :

E

DATE :

03/07/07

DATE :

3/7/07

DATE :

03/07/07

PAGE :

1/1

Volex

REV.	DESCRIPTION	DATE
C	ADD IN NEW CABLE MARKING.	11/07/07
D	REMOVE OLD MARKING AS SHOWN.	27/11/08

CABLE MARKING

BAO HING(SHENZHEN)



:- (UL) SJT E159216 VW-1 300V 60°C 3X18AWG BAOHING CSA SJT
LL112007 VW-1 300V 60°C 3X0.824mm²(18AWG) LF

DRAWN	HONGYAN	27/11/08	FILE NAME :	TITLE : CABLE MARKING (UL/CSA)
CHECK	<i>[Signature]</i>	27/11/08	CABLE MARKING/BH	
APPR	<i>[Signature]</i>	28/11/08	/SJT/SJT 18/3 60 LF-BH	
SCALE	N.T.S.	REV.	0	
REFERENCE : SJT 18/3 60°C LF				Volex

REV.	DESCRIPTION	DATE
B	ADD IN NEW CABLE MARKING.	12/06/07
C	REMOVE OLD MARKING AS SHOWN.	27/11/08

CABLE MARKING

TA HSING(SHENZHEN)



:- (UL) E84516 SJT 3X18AWG 60°C 300V VW-1 CSA LL110850

TYPE SJT 3X0.824mm²(18AWG) 60°C 300V FT2 TA HSING LF

DRAWN	HONGYAN	27/11/08	FILE NAME : CABLE MARKING/ TA HSING/SJT 18X	TITLE : CABLE MARKING (UL/CSA)
CHECK	<i>W. Ma</i>	28/11/08	3C 60 LF (UL+CSA)	
APPR	<i>hongyan</i>	28/11/08		
SCALE	N.T.S.	REV.	C	
REFERENCE : SJT 18/3C 60°C LF				Volex

2. PLUG

REV	DESCRIPTION	DATE
BE	ADD IN TEST ITEM 17 & 18 AS SHOWN.	21/06/16
BF	ADD IN CATALOGUE NO. CSUS15S3.	07/09/16

2.1. SCOPE

The specification applies to plug in compliance with UL498, UL817 and CSA C22.2 No.21-95.
Except for the plug molded with SJT-R or SVT-R cable shall be in according to UL498 & UL817.

2.2. CONSTRUCTION

The plug construction shall comply with our catalogue No: ME301,ME301R,ME301P, ME301RP,ME301S,ME302,ME302P,ME302GR,ME302GRP,PS204,PS204A,PS204D, PS204GR,PS206,MP204,VS205A,VS205S,VS207A,VS208A,US15B,US15BP,US115PSC, US115SC,US115LS,US115LPS,USJ15B,US115S,USI515A,US515SC,PS520,PS620, PS206A,926,926SR,US650A, US515A , US115VPS2, US15S3, US15S2, MA115VPS2, 926BSR, 926NPSR, US515BTA3, 953, USJ15TS3, US15GPS2, US115DPS2, VPUS15S3, PL-3001,VPUS15DS3, PS520A, CX-394S, VPUS15S2, USD15GPS2, USD115PS2, APUS15S3, DS15PS2, APUS15S2, DS15FPS2, DS15EPS2, DS15JPS2 , US520A3 DS15FBPS2 ,MFUS15S2, HO515S3,DLUS15S3, VNUS15S2, LSUS15THA3, USL515PS3, VNUS15S3, VNUS15FS3 & CSUS15S3

2.3. CHARACTERISTICS



NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
1.	Conductor secureness test	A force of 20lbf (89N) is applied on the connection between the blade and conductor for 1 min.	The connection shall not break.
2.	Strain relief test (May be exempted with abrupt pull test)	A pull of 30lbf (133N) is applied between the cord and fitting for 1 min.	There shall not be any damage to the cord and fitting. For hospital grade plug, the cord shall not been displaced by more than 0.8mm.
3.	Insulation resistance test	A D.C 500V is applied to the following; i) between live parts of opposite polarity for Class I & Class II plugs. ii) between live parts and grounded parts for Class I plug only. iii) between live parts and exposed surfaces for Class I & Class II plugs.	Min. 100 M Ohm
4.	Temperature rise test	A rated current is passed through the cord for 4 hours.	The rise in temperature of the blades shall not exceed 30°C.
5.	Dielectric voltage withstand test	An alternating voltage of 1250V is applied between each conductors for 1 min.	There shall be no arching, breakdown or flashover
6.	Accelerated aging test	The sample is placed in an oven at a temperature of 100±1°C for 96 hours.	There shall be no damage.
7.	Crushing test	After ageing for 7 days at 90±1°C, a pressure of 75lbf (334N) (500lbf for hospital grade) shall be applied on the fitting for 1 min.	The shall be no damage and expose of live parts.

DRAWN:	LILY ZHOU	07/09/16	TITLE : NORTH-AMERICAN PLUG
CHECK:	<i>Li</i>	8/9/16	
APPR:	<i>[Signature]</i>	8/9/16	
REV:	BF		
REFERENCE:			<i>Volex (Asia) Pte Ltd</i>
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NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
8	Flexing test (applicable only to parallel cord)	The sample is secured on an oscillating member with a weight of 284g(HPN cord) or 113g(others) and moved backward and forward through an angle of 180° (90° on each vertical side) for 2500 cycles. Rate of cycle is 10/min. and each cycle is from the left to the right and back again.	The conductors on each core shall not have been completely broken.
9	Abrupt pull test	i) Cords with grounding conductor. The plug is inserted into a receptacle with grounding pin on the up position. The angle is 45°. The blades are secured with set screws. A weight of 2.5lb (1.1Kg) is impacted by pulling on the cord for 25 times dropped at height of 10 inches (254mm). A current of 40A at 6-12V is then applied to the grounding conductor for 2 mins. ii) Cords with two conductors. Similar to item (i) but with only 5 impacts and the height is 7 inches (178mm).	No open circuit of any conductors.
10	Abrupt removal test (Hospital grade only)	The preparation is similar to item (9i) but the angle is at 90° and the blades are not secured. A 10lb (4.5Kg) weight is dropped from a height of 24 inches (610mm).	The plug shall be completely removed from the receptacle.
11	Jacket retention test	i) Similar to item (9i) but with only 10 impacts. ii) Similar to item (12) but the 15lbf(67N) is applied at 8 inches from the cord entrance. A weight of 3 lb(1.33kg) is then suspended 8 inches from the cord entrance for 15s. It is then rotated 360° in 15s.	No fillers, separators, insulation or bare conductors shall be seen on the cord entrance area.
12	Security of insulation test (Applicable to parallel cord only)	Insulation on each conductor is slitted open at approx. 25mm from it's entry. All strands of conductor are to be severed. A pull of 15lbf (67N) is applied for 2 min between all blades and free end of the cord.	There shall not be any detachment of insulation from the plug or baring of conductors.
13	Blade pull test at elevated temp.	The sample is conditioned at 60°C. A 10lbf (44.5N) pull is applied to the blades in succession for 4 hours at 60°C. The weight is then removed and the sample is allowed to cool to room temperature.	The blades must not be displaced by more than 1.6mm.
14	Security of blades test	A force of 20lbf (89N) is applied for 2 min. at each blade in succession.	After the removal of the weight, the blades shall not be displaced by more than 2.4mm.

DRAWN:	LILY ZHOU	07/09/16	TITLE : NORTH-AMERICAN PLUG <i>Volex (Asia) Pte Ltd</i> <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>
CHECK:	<i>ih</i>	8/9/16	
APPR:	<i>[Signature]</i>	8/9/16	
REV:	BF		

NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
15	Impact Resistance Test	After ageing for 7 days at 90±1°C, the fitting is allowed to cool to room temperature. The fitting with a cable length of about 45 in (1143 mm) is to be mounded on a vertical wall with the plug hanging freely along a striking block. The plug is lifted vertically up but about 36 in (965 mm) away from the wall. The plug is then let go and be allowed to strike the block. This is to be repeated 1000 times.	There shall be no damage to the fitting.
16	Rotary Pull (applicable only to hospital grade)	The plug is moulded with the flexible cord without the conductors terminated to the blades or grounding pin. The cord is then subjected to a vertical force of 10lbf (44.5N) and rotated at a rate of 9rpm in a 3 in diameter circle at a point 6 in (152mm) below the cord exit for 2 hours.	The conductors shall not have been displaced by more than 0.8mm.
17	Adhesion test (applicable only to outdoor-use)	Adhesion between the cord and the body of the fitting shall be determined by bending the cord to an angle of 90° with the plane of the cord entry.	<p>The area shall be examined visually for openings that would likely permit the entry of moisture into the body.</p> <p>If the visual examination cannot verify that acceptable adhesion exists, the plug may be cut apart for examination. The adhesion may be determined to be acceptable if the examination of the inner construction reveals a positive seal at all points around the periphery of the cord.</p>
18	Weather (sunlight) resistance test (applicable only to outdoor-use)	If the plastic material is not tested for weather resistance, then the plugs/connectors/assemblies shall be subjected to conditioning according to CSA C22.2 No. 2556 or CSA C22.2 0.17 for 720 hrs (carbon arc) or 1000 hrs (Xenon-arc), and then subjected to crushing and impact resistance test.	<p>After crushing test, there shall be no damage and expose of live parts.</p> <p>After impact resistance test, there shall be no damage to the fitting.</p>

DRAWN:	LILY ZHOU	07/09/16	TITLE : NORTH-AMERICAN PLUG
CHECK:		8/9/16	
APPR:		8/9/16	
REV:	BF		
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3. CONNECTOR

REV	DESCRIPTION	DATE
AZ	ADD IN CATALOGUE NO.VNC7A.	06/04/16
BA	ADD IN CATALOGUE NO.VNC5FS.	10/06/16

3.1. SCOPE

The specification applies to connector in compliance with UL817, CSA C22.2 No. 21-95 and C22.2 No. 182.3-M1987.

The connector shall generally complies to IEC 60320-1 with the exception of catalogue no. PS309/P & MS212A.

3.2. CONSTRUCTION

The connector construction shall comply with our catalogue No: VAC5S, VAC5AR, 25AC5, APC5A, APC5M, APC5S, APC5SM, APC5SP, APC7S, APC7Q, APC7M, VAC7S, SZC7S, APC13, APC13S, VSCC13, AVL13, VAC7A, VAC7PS, VIC13A, M1625, V1625, V1625LA, V1625A, V1625BA, V1625BS, VAC15S, VAC15BS, VAC17S, VAC17BS, PIC17BS, PIC17S, VAC19, VAC19A, VSC19, DLC5A3, DLC5SA3, PS625, PS625A, MS225, PS309, PS309P, MS212, MS212A, APC13F, APC13G, DLC7U2, AP7M16, 386A, VAC17A, VAC13KS, DLC5U3, VCC13, VAC19KS, DLC7E2, DLC5E3, HPC13A, V1625AT, CN-4001, SOC7S, APC5SF, VCC5S, VCC7S, APC7H, APC13H, V1625H, VAC19H, APC7K, APC13FH, APC13HC, MFC7S, VAC15A, 386AL, VAC17KS, APC7HB, VAC13CS, VAC13AD, VAC13AU, DLC5CS3, VNC7S, VNC13S, VNC5S, VNC13A, VNC7A & VNC5FS.

3.3. CHARACTERISTICS

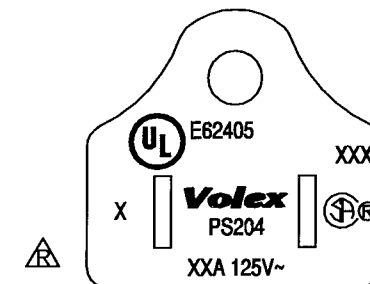
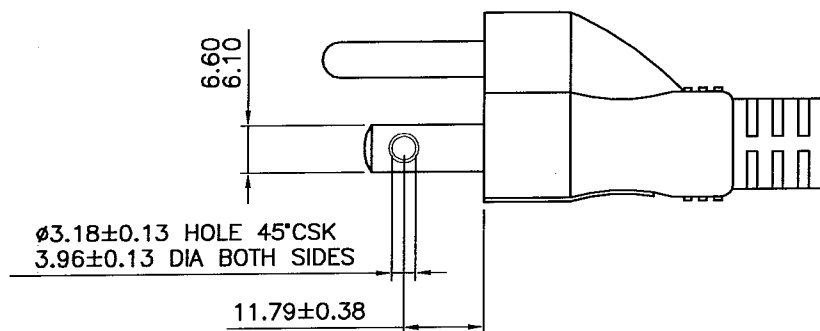
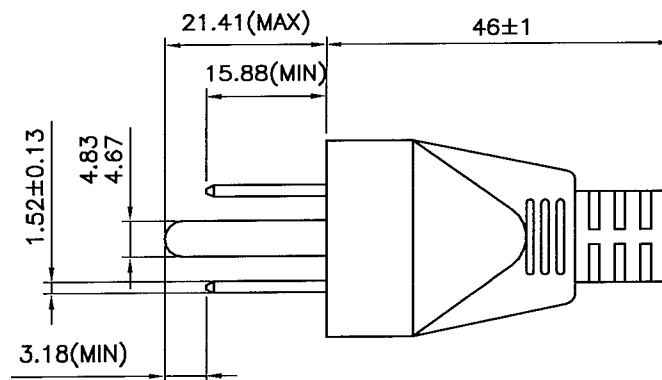
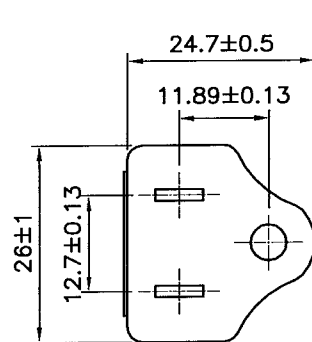
NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
1.	Conductor secureness test	A force of 20lbf (89N) is applied on the connection between the contact and conductor for 1 min.	The connection shall not break.
2.	Strain relief test	A pull of 30lbf (133N) is applied between the cord and fitting for 1 min.	There shall not be any damage to the cord and fitting.
3.	Insulation resistance test	A D.C 500V is applied between conductors and between current carrying parts and body.	Min. 100 M Ohm
4.	Temperature rise test	A rated current is passed through the cord for 4 hours.	The rise in temperature of the contacts shall not exceed 30°C.
5.	Dielectric voltage withstand test	An alternating voltage of 1250V is applied between each conductors for 1 min.	There shall be no arching breakdown or flashover
6.	Accelerated aging test	The sample is placed in an oven at a temperature of 100±1°C for 96 hours.	There shall be no damage.
7.	Flexing test (applicable only to parallel cord)	The sample is secured on an oscillating member with a weight of 284g(HPN cord) or 113g(others) and moved backward and forward through an angle of 180° (90° on each vertical side) for 2500 cycles. Rate of cycle is 10/min. and each cycle is from the left to the right and back again.	The conductors on each core shall not have been completely broken.

DRAWN:	TIAN SHUO	10/06/16	TITLE : NORTH-AMERICAN CONNECTOR
CHECK:	Tian Shuo	10/06/16	
APPR:	HJ	10/6/16	
REV:	BA		
REFERENCE:			<i>Volex (Asia) Pte Ltd</i>
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NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
8.	Jacket retention test	Insulation on each conductor is slitted open at approx. 25mm from cord entry. All strands of conductor are to be severed. A pull of 15lbf (67N) is applied for 2 min. between fitting and free end of cord.	There shall not be any detachment of insulation from the connector.

DRAWN:	TIAN SHUO	10/06/16	TITLE : NORTH-AMERICAN CONNECTOR
CHECK:	<i>Tianshuo</i>	10/06/16	
APPR:	<i>[Signature]</i>	10/6/16	
REV:	BA		
REFERENCE:			<i>Volex (Asia) Pte Ltd</i>
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REV.	DESCRIPTION	DATE
Q	ADD '7A' IN RATING TABLE.	24/08/12
R	CHANGE MARKING PER ECN005-14.	09/12/14



MARKING DETAILS :

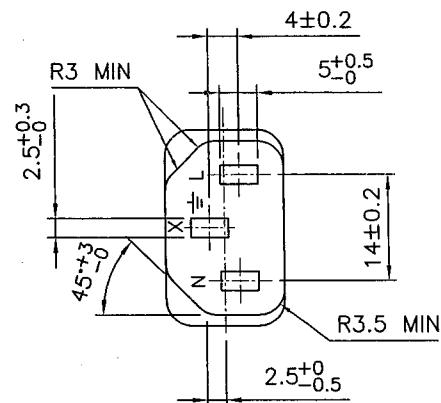
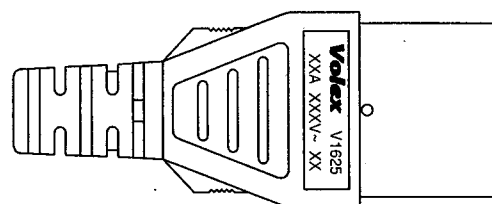
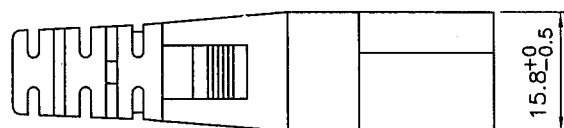
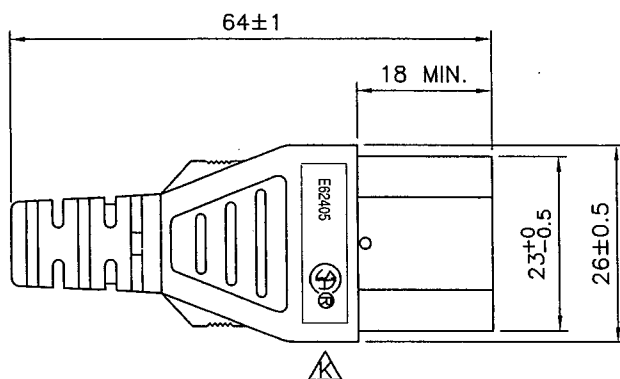
TABLE :

CURRENT (XXA)	2.5A	7A	10A	✓	12A	13A
---------------	------	----	-----	---	-----	-----

NOTES :

- 1.) ALL DIMENSIONS IN mm.
- 2.) VENDOR'S TRADEMARK MUST BE ON THE BLADE.
- 3.) X - CAVITY NO.(OPTIONAL)
- 4.) XXX - MANUFACTURE LOCATION
- 5.) XXA - RATING(REFER TO RATING TABLE)

SM	HENG GANG (CHINA)	X	DRAWN	TRACEY	09/12/14	FILE NAME :	TITLE :
SM1/SMI	ZHONGSHAN (CHINA)	X	CHECK	<i>honda</i>	10/12/14	A-PLUG/UL&CSA/	MOLDED PLUG
VH	HANOI (VIETNAM)	X	APPR	<i>Yun</i>	11/12/14	GENERAL/	PS204
B	BATAM (INDONESIA)	X	REV.	R	SCALE	PS204-UL/CSA	
VC	CHENNAI (INDIA)	X	REFERENCE :				Volex (Asia) Pte Ltd
MANUFACTURE LOCATION MARK (' X ' IS APPLICABLE ONLY)			NORTH-AMERICAN APPROVAL				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.



E62405



Volex V1625
XXA XXXV~ XX

MARKING DETAILS

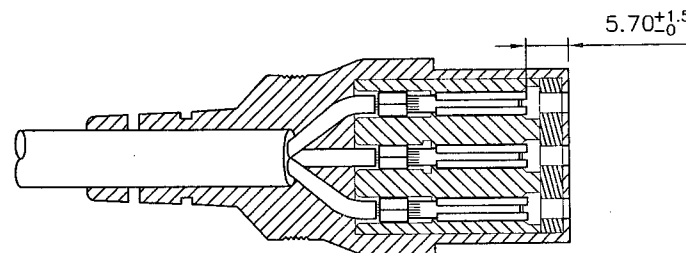


TABLE :

VOLTAGE (XXXV~)	250V~		125V~	✓
CURRENT (XXA)	10A	✓	13A	

NOTES :

- 1.) ALL DIMENSIONS IN mm.
- 2.) X - CAVITY NO.(OPTIONAL)
- 3.) XXA XXXV~ - RATING (REFER TO TABLE).
- 4.) XX - MANUFACTURING LOCATION.

SM	HENG GANG (CHINA)	X	DRAWN	HONGYAN	22/02/11	FILE NAME :	TITLE : MOLDED CONNECTOR V1625 <i>Volex (Asia) Pte Ltd</i> 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.
SM1/SMI	ZHONGSHAN (CHINA)	X	CHECK	<i>hongyan</i>	24/02/11	A-CONNECTOR\UL&CSA\GENERAL\	
VH	HANOI (VIETNAM)	X	APPR	<i>weib</i>	24/2/11	V1625-UL-CSA	
B	BATAM (INDONESIA)	X	REV.	K	SCALE	N.T.S.	
VC	CHENNAI (INDIA)	X	REFERENCE :				NORTH-AMERICAN APPROVAL
MANUFACTURE LOCATION MARK (' X ' IS APPLICABLE ONLY)							

REV.	DESCRIPTION	DATE
J	ADD IN MANU. LOCATION MARK 'SMI'.	13/07/10
K	CHANGE MARKING PER ECN016-10.	22/02/11