SPECIFICATION

FOR

BRITISH POWER SUPPLY CORD (PB FR)

CORD : H05VV-F 3X1.50mm² PVC LEAD FREE

CUSTOMER

: VPE/FARNELL

CUSTOMER'S PART No. : 1124373

VOLEX'S SPEC. REF No.: 194219/11

ISSUE No.

: 001

DATE

: 21ST FEBRUARY 2019

CUSTOMER APPROVED :

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



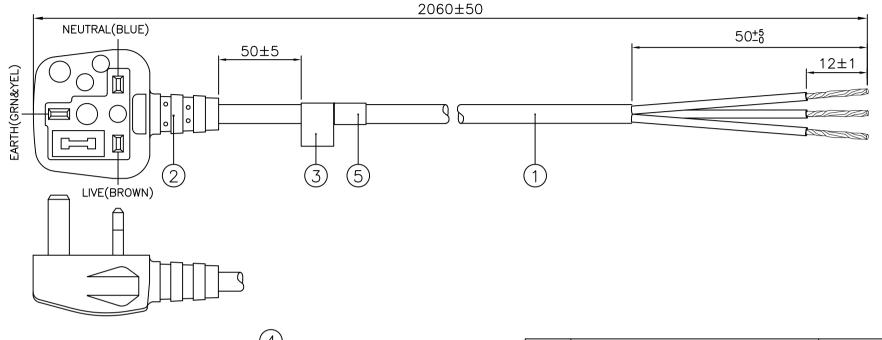
Volex (Asia) Pte Ltd

35 Tampines St. 92 Singapore 528880

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

AMENDMENT RECORD

REF. No.	DESCRIPTION OF CHANGES	DATE
194219/11	(1) FIRST SUBMISSION.	21/02/19
EVPE02-044-19)		
ISSUE : 001		
		<u> </u>
4		
75.14.74.		



130^{±50}

APPROVED SOURCE FOR CABLE

- 1. BAO HING(SHENZHEN).
- 2. TONG YUAN(SHENZHEN).
- 3. TA HSING(SHENZHEN).

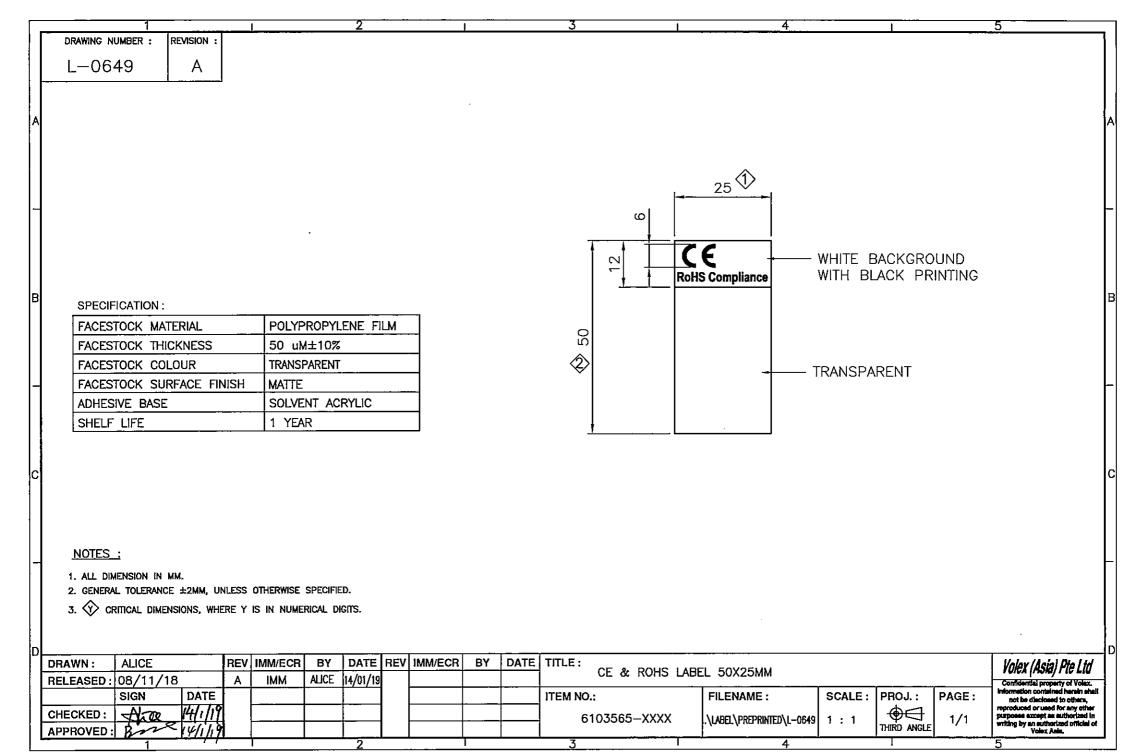
NOTE:

- 1. ALL DIMENSIONS IN mm.
- 2. THE CORD SHALL COMPLY WITH EN 50525-2-11.
- 3. THE MOLDED PLUG SHALL COMPLY WITH BS 1363-1.
- 4. THIS PART CAN BE MANUFACTURED AT ANY LOCATION WHICH HAS SAFETY APPROVAL.

3 LOOPS-

130^{±25}

	5	LABEL CE&ROHS 50X25MM 6103565					1	
	4	6" PE TIE WHT			6310055		1	
	3	LABEL PE WARNING 3C 728641 YEL 6100095			6100095		1	
		FUSE 13A (CAP WITH NICKEL PLATING) 6210			6210014		OR	
	ľ	FUSE 13A				6210002		1
	ľ	IP60G NL79	976B BLK			4100115		_
	2	MOLDED PLUG MP5004 (13A 250V) MP5004-				MP5004-E	3	1
	1	H05VV-F 3X1.50 BLK PVC LEAD FREE 1210523				1		
[5	S/N	DESCRIPTION ITEM NUME			ER	QTY		
TI	ITLE :	BRITISH POWER SUPPLY CORD (PB FR)			SCAL	E : N.T.S.		
CI	USTOME	STOMER: VPE/FARNELL				PAGI	E : 1/1	
CI	USTOME	STOMER PART NUMBER: 1124373]	ISSUE	
R	eference	194219/11 (EVPE02-044-19)				001		
SAI	LES :	QA: ENGRG: CHECKED BY: DRAWN BY: VOIEX (ASI				a) F	Pte Ltd	
Da	te:	Date :	Date : 22/02/19	Date : 21/02/19	Date : 21/02/19	Confidential proper Information contained I disclosed to others, rep other purposes except by an authorized officia	nerein si produced as autho	hall not be d or used for any orized in writing



Form Number: OI-ENG-057-FM006(B)

REV.	DESCRIPTION	DATE
۴	REVERT THE FORMAT.	24/02/05
	CHANGE THE COMPLIANCE STANDARD	
	PER SAFETY.	
G	UPDATE FORMAT AS SHOWN.	23/12/13

1. PVC FLEXIBLE CORD

1.1 SCOPE

This specification shall be in accordance with EN 50525-2-11. \triangle

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 A	REA	mm ²	1.50
MIN. AVE. THICKNESS C	F INSULATION	mm	0.70
MIN. THICKNESS AT ANY PO	DINT OF INSULATION	mm	0.53
MIN. AVE. THICKNESS C	F JACKET	mm	0.90
MIN. THICKNESS AT ANY POI	NT OF JACKET	mm	0.665
OVERALL DIAMETER OF JACKI	ΕT	mm	7.4~9.4
DIELECTRIC-STRENGTH TEST IMMERSED IN WATER 20±5°C	ON COMPLETED CABLE	_	2000V for 15 mins.(minimum)
FOR MINIMUM 1 HOUR	ON CORES	_	2000V for 5 mins.(minimum)
1/01 T. 05 TEOT (D. 0)		_	5000V d.c. for 5 mins.(minimum)
VOLTAGE TEST (D.C)		_	2000V a.c. for 5 mins.(minimum)
INSULATION RESISTANCE TEST (70°C)		MΩkm	>0.01
CONDUCTOR RESISTANC	E TEST (20°C)	Ω/km	<=13.3

TITLE: CABLE SPECIFICATION EUROPEAN APPROVED POWER SUPPLY CABLE H05VV-F 3X1.50mm² APPROVED BY : CHECKED BY : DRAWN BY : SPEC NO. : REVISION: 🖎 Volex (Asia) Pte Ltd G HONGYAN CS-041EU DATE: PAGE: 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 sale. >7/13/13/23/12/13 1/1 30/12/17

REV.	DESCRIPTION	DATE
	UPDATE THE FORMAT AS SHOWN.	
В	ADD IN '(EU/SAA/SAB/IEC)' ON THE TITLE.	21/01/05
С	ADD NEW MARKING AS SHOWN.	16/11/17

CABLE MARKING

BAO HING (SHENZHEN)

OR

A H05VV-F 3G1.5mm² < VDE > KEMA-KEUR IEMMEQU BAOHING **C€** LF

DRAWN	JIN JU		FILENAME :
CHECK	Fong	16/11/17	CABLE MARKING/ BH/H05/H05W-F
APPR	heith	16/11/17	3X1.50 LF-BH
SCALE	N.T.S.	REV.	С

TITLE : CABLE MARKING (EU/SAB/SAA/IEC)

REFERENCE :

HO5W-F 3X1.50mm² LF

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REV.	DESCRIPTION	DATE
Ε	REMOVE NOTE 1.	20/05/15
F	ADD IN NEW MARKING AS SHOWN.	25/12/17

CABLE MARKING

TONG YUAN (SHENZHEN)

H05VV-F 3G1.5mm² \triangleleft VDE \triangleright KEMA-KEUR CEBEC + ω + ω + ω + ω \triangleleft ÖVE \triangleright \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc N \bigcirc IEMMEQU SABS 60227-5 NF-USE 1321FC TONGYUAN LF

OR

⚠ H05VV-F 3G1.5mm² < VDE > KEMA-KEUR CEBEC + ω+ω+ω < ÖVE > DSNF IEMMEQU NF-USE 1321FC TONGYUAN LF

DRAWN	LI XIA	25/12/17	FILENAME :
CHECK	Feng		C-MARKING/H05/ NEW MARKING/H05
APPR	heith	25/12/17	W-F 3X1.5 LF-TY
SCALE	N.T.S.	REV.	F

TITLE : CABLE MARKING
(EU/SAB/IEC)

REFERENCE :

H05VV-F 3X1.5mm² LF

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REV.	DESCRIPTION	DATE
	CHANGE MARKING PER ECNO04-15.	
D	ADD IN NOTE 1.	18/02/16
	REMOVE OLD MARKING PER ECR#160527.	
Ε	REMOVE NOTE 1.	21/09/16

CABLE MARKING

TA HSING(SHENZHEN)

Æ

 $\triangleleft \text{VDED}$ KEMA-KEUR CEBEC IEMMEQU (D) (N) (S) (F) $\triangleleft \text{ÖVED} + \omega + \omega + \omega$ NF-USE Q050104 IEC 60227 53 H05VV-F 300/500V 3G1.5mm² TA HSING INDUSTRIES LTD. LF

DRAWN	∐ XIA	21/09/16	FILENAME :
CHECK	15000	2109/16	CABLE WARKING
APPR	wi	22/9/16	/TH(SZ)/H05W-F 3X1.50 - LF
SCALE	N.T.S.	REV.	E

TITLE : CABLE MARKING
(EU/SAA/IEC)

REFERENCE :

H05VV-F 3G1.5mm² LF

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2. PLUG

REV	DESCRIPITION	DATE
AD	ADD IN CATALOG NO. CSUK13A3.	10/01/18
AE	ADD IN CATALOG NO. VBUK13A2.	28/06/18

2.1. **SCOPE**

The plug shall be in accordance with BS 1363 Part 1,

(Specification for up to 13A fused plugs, switched and unswitched socket-outlets)

2.2. CONSTRUCTION

The plug construction shall comply with our catalogue No: MP5004, MP5004A, MP5004AW, MP5004H, MP5004SC, UK13A2, UK13CBA2, UK10SC3, MP5004BS, MP5004V, UK13A3, MP5004DBS, MP5004D, VPUK13A3, VPUK13A2, DS13CA2, APUK13A2, APUK13A3, DS13EA2, MFUK13A2, DLUK10S3, VNUK13A3, LSUK13THA3, VNUK13A2, CSUK13A3 & VBUK13A2

2.3. CHARACTERISTICS

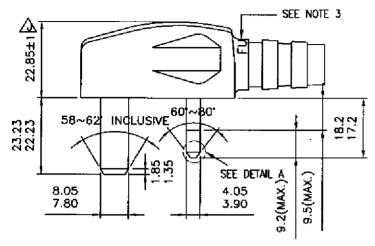
NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
1.	Moisture resistance test	Samples are kept in a humidity cabinet containing air with a relative humidity between 85 to 95% and a temperature of 20°C-30°C for a duration of 48 hours.	No damage
2.	Electric strength test	A voltage of A.C 2000V with a trip current of min. 100mA is applied for 1 min after the moisture resistance test. A voltage of A.C 6000V is also applied between current carrying parts and body for 1 min.	No flashover and breakdown
3.	Insulation resistance test	This test is measured with a D.C 500V for 1 min. after the moisture resistance test.	Min. 5 M Ohm
4.	Flexing test	The sample shall be loaded with a weight of 1kg for 0.75mm ² or less, or 2kg for 1.00mm ² and above 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.Rated current of the plug is passed.	No damage to the insulation and the breakage of conductor of each core shall not exceed 10%.
5.	Tumbling test	The samples are dropped from a height of 50cm onto a plywood base(10mm thick) for a total of 5000 times.	No damage
6.	Abrasion test	The pin of sample slopes downwards at angle of 10° to the horizontal. The sample is loaded with a force of 4N on the sleeve of the pin. The number of movement is 20,000 and the length of pin subjected to abrasion is approx. 7mm over the insulating sleeve.	No damage

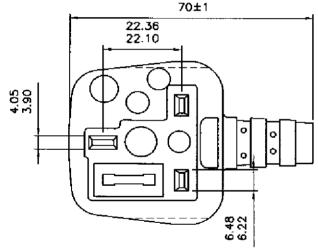
DRAWN:	WANGHUI	28/06/18	TITLE:
CHECK:	hongyan	28/06/18	
APPR:	heith	28/06/18	BRITISH PLUG
REV:	AE		
REFERENCE	:		Volex (Asia) Pte Ltd
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PAGE 1 OF 2

NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
7.	Heat deformation test	The samples are kept for 1 hour in a heating carbinet at temperature of 70±5°C.	no damage and withstand electric strength test.
8.	Ageing test	The samples are kept for 7 days in a heating carbinet at temperature of 70±5°C. It is then put in room temperature for 4 hours.	no damage
9.	Temperature rise test	Rated current of the plug is passed for at least 4 hours. This test is repeated on the same sample after tumbling barrel test.	Rise in temperature for joints shall not exceed 52K while the rest shall not exceed 37K.
10.	Cord-anchorage test	The cord is subjected to a load of 3kg for (1.0mm ² or smaller) or 6kg (the rest) 25 times without jerk. The cord is then subjected to a torque of 0.15Nm (0.5mm ²), 0.2Nm (0.75mm ²), 0.25Nm (1.0mm ²), 0.3Nm (1.25mm ²), 0.35Nm (1.5mm ²) for 1 min.	Shall withstand a voltage of 3750±75V for 1 min., between each conductor and cord shall not been displaced by more than 2mm.
11.	Pressure test	A force of 20N is applied on the sample for 1 hour at a temperature of 70±5°C.	No damage and shall withstand electric strength and insulation resistance test. The sample must also fit into fig. 5 jig of BS1363.
12.	Ball pressure test	A steel ball of 5mm in diameter is applied with 20N force on the sample at a temperature of 75±5°C for 1 hour. The sample is then cooled by cold water.	The diameter of the impression shall not exceed 2mm.
13	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 for a period of 30s.	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.

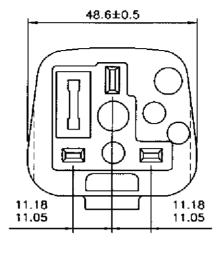
DRAWN:	WANGHUI	28/06/18	TITLE:
CHECK:	hongyan	28/06/18	
APPR:	heith	28/06/18	BRITISH PLUG
REV:	AE		
REFERENCE:			Volex (Asia) Pte Ltd





NOTE:

- 1.) ALL DIMENSIONS IN mm.
- 2.) X CAVITY NO. (OPTIONAL)
- 3.) THE WORD IS ' FUSED '.
- 4.) AA RATING : (REFER TO THE TABLE)
- 5.) MARKING 'C' FOR CABLE 1.25mm2 & ABOVE. WITHOUT 'C' FOR CABLE 1.0mm2 & BELOW.



1.85 1.35 REV. DESCRIPTION DATE REMOVE THE CLOSED FACTORY FROM MANU. LOCATION MARK. 17/07/09 30/03/10 CHANGE DIM. FM. '22.85±0.3' TO '22.85±1' PER ECR100291.

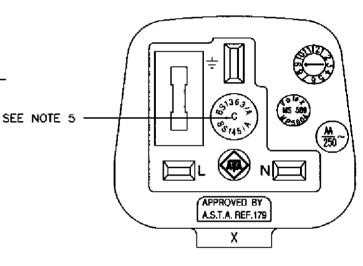


TABLE :

1.2

FUSE RATING 3		5		10		13	
---------------	--	---	--	----	--	----	--

HG	HENG GANG (CHINA)	x	DRAWN	HONGYA
SM1	ŽHONGSHAN (CHINA)	x	CHECK	ponak
	•	^	APPR	weit
VH	HANOI (METNAM)	X	REV.	J
8	BATAM (INDONESIA)	x	REFER	RENCE :
vc	CHENNAI (INDIA)	x		Domic
	FACTURE LOCATION MARI			BRITIS

DETAIL A

BRITISH APPROVAL

HONGYAN

30/03/10

30 3 PP

SCALE

MOLDED PLUG MP5004

MARKING DETAILS:

TITLE :

FILE NAME :

A-PLUG/UK/

-ASTA

GENERAL/MP5004

N.T.S.

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REV.	DESCRIPTION	DATE
Α	INITIAL RELEASE.	29/06/12

AsiaFuse AF63-13A 13A BS1362 SS167

DRAWN	HONGYAN	29/06/	12	DD 401011	Г
CHECK	hongh	04107/	12	REVISION:	
APPR	NOS	417	12	,	
SCALE	N.T	.s.		A	

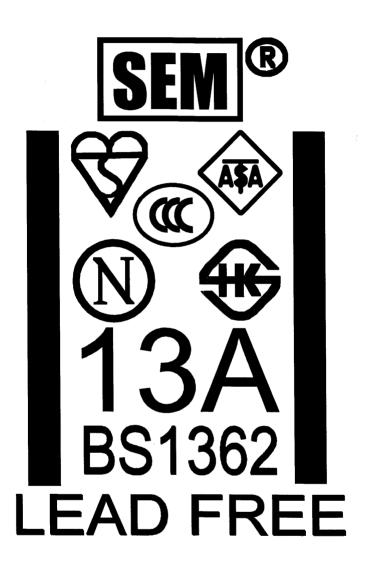
TITLE : LEAD FREE

FUSE (13A)

REFERENCE :

Volex

REV.	DESCRIPTION	DATE	
Α	INITIAL RELEASE.	29/06/12	

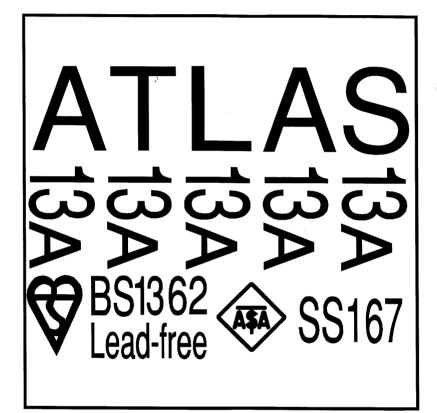


DRAWN	HONGYAN 29/06/12	REVISION:	TITLE :	LEAD FREE
APPR	Mes 417/12			FUSE (13A)
SCALE	N.T.S.	^		, ,

REFERENCE:

Volex

REV.	DESCRIPTION	DATE
	ADD IN 'REFERENCE E07.013-C'	
С	IN REFERENCE COLUMN.	31/07/08
D	CHANGE MARKING AS SHOWN.	13/11/12



A

DRAWN	HONGYAN 13/11/12		BEVISION: TITLE :	LEAD FREE
CHECK	hong 13/11/12	REVISION.	1111	
APPR	NOTO 13/11/12	_		FUSE (13A)
SCALE	N.T.S.	D		()

REFERENCE :

6210002 (REFERENCE E07.013-C) Volex

REV.	DESCRIPTION	DATE
	ADD IN 'TYPE REFERENCE TDC 180	
E	-13A' IN REFERENCE COLUMN.	14/07/08
F	AMEND NOTE FOR ADD IN ITEM b.	29/08/08

*PRINT BLOCK TOPS WITH MACHINE NUMBERS

Bussmann 13A (CG) BS 1362

NOTE:

(1) *PRINT BLOCK TOP (DOT LINE) = BUSSMANN INTERNAL IDENTIFICATION ON MACHINERY.

a: DIFFERENT LOCATION/NUMBER OF DOT LINE INDICATE DIFFERENT MACHINE NUMBER USED.

b: THE FUSE PRODUCE ON THE MACHINE #20 IS WITHOUT THE PRINT BLOCK TOP (DOT LINE).

REFERENCE: 6210014 (TYPE REFERENCE TDC 180-13A)			V	ol	ex	
SCALE	N.1	.s.	F			
APPR	gran	29/88/08	-		FUSE	(13A)
CHECK	weto	2 (8/08	KEVISION.			
DRAWN	QIAN SM	29/08/08	REVISION:	TITLE :	LEAD 1	REE