

# SPECIFICATION

FOR

EUROPEAN POWER SUPPLY CORDSET (PB FR)

CORD : H03VVH2-F 2X0.75mm<sup>2</sup> PVC LEAD FREE

CUSTOMER : VPE/RS COMPONENTS

CUSTOMER'S PART No. : 1469111(V-NOVUS EU2PIN-C7 Ø.5M)

VOLEX'S SPEC. REF No. : 172907/11

ISSUE No. : 006

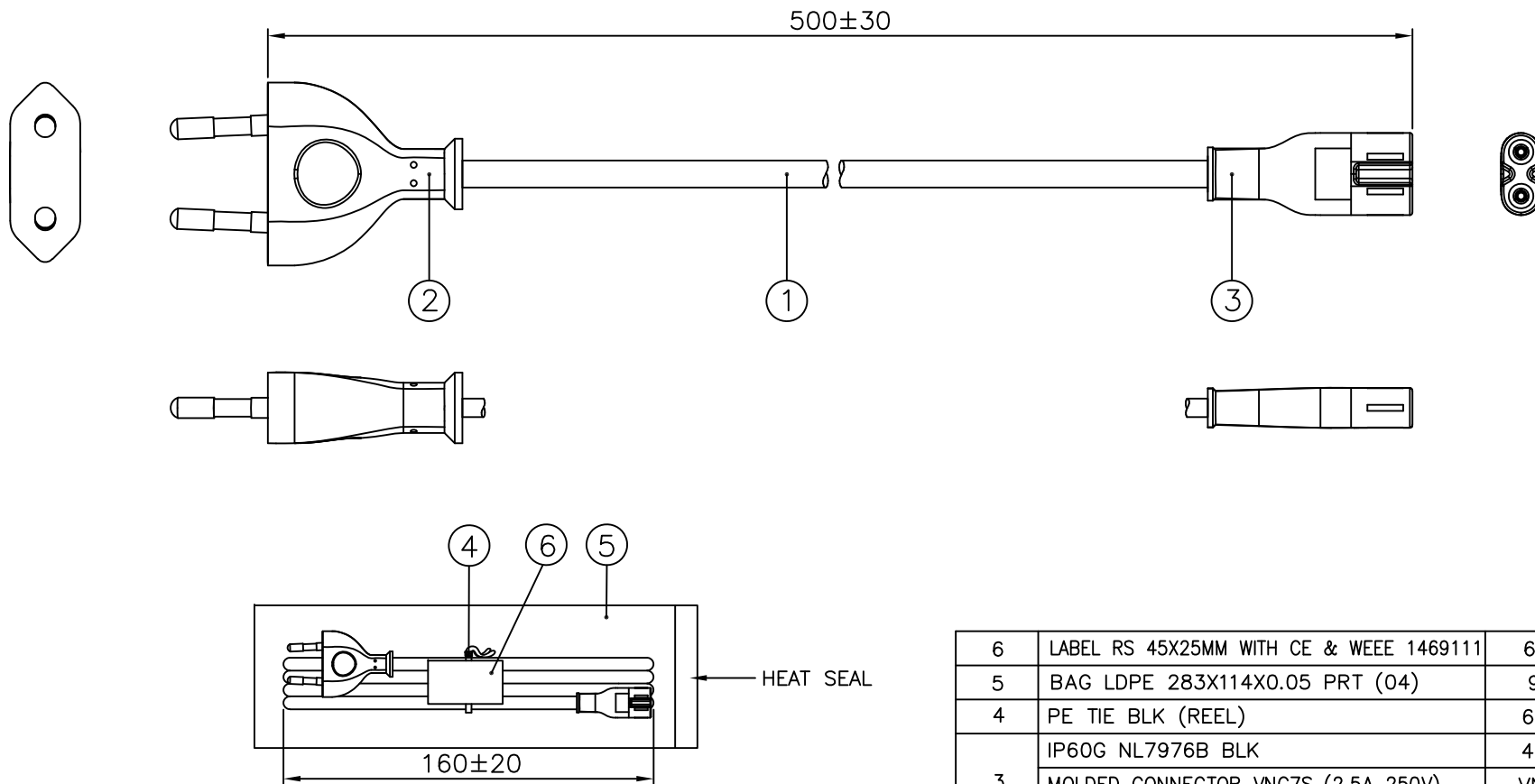
DATE : 26TH NOVEMBER 2019

CUSTOMER APPROVED :

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







**APPROVED SOURCE FOR CABLE**

1. BAO HING(SHENZHEN).

**NOTE :**

1. ALL DIMENSIONS IN mm.
2. THE CORD SHALL COMPLY WITH EN 50525-2-11.
3. THE MOLDED PLUG SHALL COMPLY WITH SPECIFICATION EN 50075.
4. THE MOLDED CONNECTOR SHALL COMPLY WITH IEC 60320-1 OR EN 60320-1.
5. THIS PART CAN BE MANUFACTURED AT ANY LOCATION WHICH HAS SAFETY APPROVAL.

| 6  | LABEL RS 45X25MM WITH CE & WEEE 1469111 | 6103452        | 1            |            |
|--|---|----------------|--------------|------------|
| 5  | BAG LDPE 283X114X0.05 PRT (04)          | 904028         | 1            |            |
| 4  | PE TIE BLK (REEL)                       | 6310101        | 1X152MM      |            |
| 3  | IP60G NL7976B BLK                       | 4100115        | -            |            |
|  | MOLDED CONNECTOR VNC7S (2.5A 250V)      | VNC7S-V        | 1            |            |
| 2  | IP60G NL7976B BLK                       | 4100115        | -            |            |
|  | MOLDED PLUG VNEU2.5S2 (2.5A 250V)       | VNEU2.5S2-V    | 1            |            |
| 1  | H03VVH2-F 2X0.75 BLK LF (INDENT)        | 1211372        | 1            |            |
| S/N  | DESCRIPTION                             | ITEM NUMBER    | QTY          |            |
| TITLE : EUROPEAN POWER SUPPLY CORDSET (PB FR)          |   | SCALE : N.T.S. |              |            |
| CUSTOMER : VPE/RS COMPONENTS                           |   | PAGE : 1/1     |              |            |
| CUSTOMER PART NUMBER : 1469111(V-NOVUS EU2PIN-C7 Ø.5M) |   | ISSUE          |              |            |
| Reference Number : 172907/11 (VPE11-139-19)            |   | 006            |              |            |
| SALES :  | QA :                                    | ENGRG :        | CHECKED BY : | DRAWN BY : |
|  |   | ROB IN         | FAN LIAN     | FAN LIAN   |
| Date :   | Date :                                  | Date :         | Date :       | Date :     |
|  |   | 02/12/19       | 26/11/19     | 26/11/19   |

DRAWING NUMBER . REVISION .

L-0654

B

R2.0(4X)

45.0

14,6 REF

25.0

5 MIN.

CUSTOMER P/N  
SEE TABLE

XXXXXXXXX

1

RoHS

RED BACKGROUND(PANTONE 172 C)  
WITH WHITE PRINT, SEE PICTURE BELOW

WHITE BACKGROUND WITH BLACK PRINT

Made in China



5

SPECIFICATION :

|                          |                        |
|--------------------------|------------------------|
| PRODUCT NO               | AW32C9 WITH PP COATING |
| FACESTOCK MATERIAL       | ART PAPER              |
| FACESTOCK THICKNESS      | 72 $\mu$ M $\pm$ 10%   |
| FACESTOCK COLOUR         | WHITE                  |
| FACESTOCK SURFACE FINISH | GLOSSY                 |
| ADHESIVE BASE            | ACRYLIC EMULSION       |
| SHELF LIFE               | 1 YEAR                 |

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



PICTURE FOR COLOUR PRINT

NOTES :

1. ALL DIMENSION IN MM.
2. GENERAL TOLERANCE  $\pm$ 1MM, UNLESS OTHERWISE SPECIFIED.
3.  $\diamond$  CRITICAL DIMENSIONS, WHERE Y IS IN NUMERICAL DIGITS.
4. WHITE BACKGROUND WITH BLACK PRINT.
5. FONT: ARIAL, BOLD.

|            |                    |                 |         |        |          |          |         |    |      |           |                                      |         |         |        |
|------------|--------------------|-----------------|---------|--------|----------|----------|---------|----|------|-----------|--------------------------------------|---------|---------|--------|
| DRAWN :    | ALICE              | REV             | IMM/ECR | BY     | DATE     | REV      | IMM/ECR | BY | DATE | TITLE :   | RS LABEL 45X25MM WITH CE & WEEE LOGO |         |         |        |
| RELEASED : | 22/01/19           | A               | 190190  | ALICE  | 04/04/19 |          |         |    |      | ITEM NO.: | FILENAME :                           | SCALE : | PROJ. : | PAGE : |
|            | SIGN               | DATE            | B       | 190589 | ALICE    | 11/11/19 |         |    |      | SEE TABLE | .\LABEL\PREPRINTED\L-0654            | 2 : 1   |         | 1/2    |
| CHECKED :  | <i>Alice</i>       | <i>11/11/19</i> |         |        |          |          |         |    |      |           |                                      |         |         |        |
| APPROVED : | <i>[Signature]</i> | <i>11/11/19</i> |         |        |          |          |         |    |      |           |                                      |         |         |        |


DRAWING NUMBER : REVISION :

L-0654

B

TABLE  $\triangle$  B

| CUSTOMER P/N | ITEM NO.     | CUSTOMER P/N | ITEM NO.     | CUSTOMER P/N  | ITEM NO.     | CUSTOMER P/N  | ITEM NO.     |
|--------------|--------------|--------------|--------------|---------------|--------------|---------------|--------------|
| 1247409      | 6103431-XXXX | 321203       | 6103475-XXXX | 7440929       | 6103502-XXXX | 262 1154 0001 | 6103536-XXXX |
| 1468803      | 6103441-XXXX | 321219       | 6103476-XXXX | 7440931       | 6103503-XXXX | 262 1160 0001 | 6103537-XXXX |
| 1468804      | 6103442-XXXX | 426424       | 6103478-XXXX | 7440935       | 6103504-XXXX | 262 1176 0001 | 6103538-XXXX |
| 1469102      | 6103443-XXXX | 531100       | 6103479-XXXX | 7440941       | 6103505-XXXX | 262 1182 0001 | 6103539-XXXX |
| 1469103      | 6103444-XXXX | 531116       | 6103480-XXXX | 8188903       | 6103507-XXXX | 680 3798 0001 | 6103540-XXXX |
| 1469104      | 6103445-XXXX | 6151154      | 6103481-XXXX | 8188909       | 6103508-XXXX | 426 373 0001  | 6103541-XXXX |
| 1469105      | 6103446-XXXX | 6151176      | 6103482-XXXX | 8188912       | 6103509-XXXX | 426 389 0001  | 6103542-XXXX |
| 1469106      | 6103447-XXXX | 6151182      | 6103483-XXXX | 8188915       | 6103510-XXXX | 426 395 0001  | 6103543-XXXX |
| 1469107      | 6103448-XXXX | 6266593      | 6103484-XXXX | 8188919       | 6103511-XXXX | 426 402 0001  | 6103544-XXXX |
| 1469108      | 6103449-XXXX | 6266600      | 6103485-XXXX | 9010753       | 6103512-XXXX | 426 418 0001  | 6103545-XXXX |
| 1469109      | 6103450-XXXX | 6266616      | 6103486-XXXX | 9092156       | 6103513-XXXX | 452 669 0001  | 6103546-XXXX |
| 1469110      | 6103451-XXXX | 6266688      | 6103489-XXXX | 9092168       | 6103516-XXXX | 487 277 0001  | 6103547-XXXX |
| 1469111      | 6103452-XXXX | 6266694      | 6103490-XXXX | 9092171       | 6103517-XXXX | 487 277 0010  | 6103548-XXXX |
| 1469112      | 6103453-XXXX | 6266701      | 6103491-XXXX | 9092174       | 6103518-XXXX | 489 201 0001  | 6103549-XXXX |
| 1469114      | 6103454-XXXX | 6266717      | 6103492-XXXX | 9092178       | 6103519-XXXX | 489 217 0001  | 6103550-XXXX |
| 1469115      | 6103455-XXXX | 6266723      | 6103493-XXXX | 9092184       | 6103521-XXXX | 489 346 0001  | 6103551-XXXX |
| 1469116      | 6103456-XXXX | 6266745      | 6103494-XXXX | 9092193       | 6103524-XXXX | 489 352 0001  | 6103552-XXXX |
| 1469117      | 6103457-XXXX | 7316157      | 6103495-XXXX | 445 740       | 6103528-XXXX | 490 217 0001  | 6103553-XXXX |
| 1469118      | 6103458-XXXX | 7316166      | 6103497-XXXX | 449 297       | 6103529-XXXX | 490 223 0001  | 6103554-XXXX |
| 1469119      | 6103459-XXXX | 7316175      | 6103498-XXXX | 449 326       | 6103530-XXXX | 490 239 0001  | 6103555-XXXX |
| 1469120      | 6103460-XXXX | 7316201      | 6103499-XXXX | 815 846       | 6103531-XXXX | 490 245 0001  | 6103556-XXXX |
| 321180       | 6103473-XXXX | 7316208      | 6103500-XXXX | 268 2610      | 6103532-XXXX | 311-9321-0000 | 6103557-XXXX |
| 321196       | 6103474-XXXX | 7440925      | 6103501-XXXX | 311 9315      | 6103533-XXXX | 311-9337-0000 | 6103558-XXXX |
|              |              |              |              | 262 1126 0001 | 6103535-XXXX | 311-9359-0000 | 6103559-XXXX |

|                               |     |         |       |          |     |         |    |      |           |                                      |         |   |        |  |
|-------------------------------|-----|---------|-------|----------|-----|---------|----|------|-----------|--------------------------------------|---------|---|--------|--|
| DRAWN : ALICE                 | REV | IMM/ECR | BY    | DATE     | REV | IMM/ECR | BY | DATE | TITLE :   | RS LABEL 45X25MM WITH CE & WEEE LOGO |         |   |        |  |
| RELEASED : 22/01/19           | A   | 190190  | ALICE | 04/04/19 |     |         |    |      | ITEM NO.: | FILENAME :                           | SCALE : | PROJ. :   | PAGE : |  |
|                               | B   | 190589  | ALICE | 11/11/19 |     |         |    |      | SEE TABLE | .\LABEL\PREPRINTED\L-0654            | 2 : 1   |  | 2/2    |  |
| CHECKED : <i>[Signature]</i>  |     |         |       |          |     |         |    |      |           |                                      |         |   |        |  |
| APPROVED : <i>[Signature]</i> |     |         |       |          |     |         |    |      |           |                                      |         |   |        |  |

| REV. | DESCRIPTION                                   | DATE     |
|------|---|----------|
| E    | AMEND WORDS FM. 'NORMAL' TO 'NOMINAL'.        | 14/10/05 |
| F    | CHANGE THE COMPLIANCE STANDARD<br>PER SAFETY. | 20/12/13 |
|      | UPDATE FORMAT AS SHOWN.                       |          |

## 1. PVC FLEXIBLE CORD

### 1.1 SCOPE



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

### 1.2 CONSTRUCTION

|            |                      |
|------------|----------------------|
| CONDUCTOR  | ANNEALED COPPER WIRE |
| INSULATION | PVC (BLUE AND BROWN) |
| JACKET     | PVC                  |

| ITEM                                      | UNIT  | SPEC. VALUE   |   |                            |
|---|---|---|---|----------------------------|
| TEMPERATURE RATING                        | °C  | 70  |   |                            |
| RATED VOLTAGE                             | V   | 300/300   |   |                            |
| NO. OF CORE                               | NO.   | 2   |   |                            |
| CONDUCTOR NOMINAL AREA                    | mm <sup>2</sup>                                   | 0.75  |   |                            |
| MIN. AVE. THICKNESS OF INSULATION         | mm  | 0.50  |   |                            |
| MIN. THICKNESS AT ANY POINT OF INSULATION | mm  | 0.35  |   |                            |
| MIN. AVE. THICKNESS OF JACKET             | mm  | 0.60  |   |                            |
| MIN. THICKNESS AT ANY POINT OF JACKET     | mm  | 0.41  |   |                            |
| OVERALL DIAMETER OF JACKET                | mm  | 3.2X5.2~3.8X6.3   |   |                            |
| VOLTAGE TEST (D.C)                        | -   | 2000 Va.c. for 5 mins<br>(minimum) or 5000 Vd.c.<br>for 5 mins(minimum) |   |                            |
| DIELECTRIC-<br>STRENGTH TEST              | IMMERSED IN WATER,<br>20±5°C FOR MINIMUM<br>1HOUR | ON COMPLETED CABLE  | - | 2000V for 15 mins(minimum) |
|   |   | ON CORES  | - | 1500V for 5 mins(minimum)  |
| INSULATION RESISTANCE TEST (70°C)         | MΩ./Km  | > 0.01  |   |                            |
| CONDUCTOR RESISTANCE TEST (20°C)          | Ω/Km  | < 26  |   |                            |

TITLE : CABLE SPECIFICATION  
EUROPEAN APPROVED POWER SUPPLY CABLE  
H03VVH2-F 2X0.75mm<sup>2</sup>


|            |   |   |            |            |
|------------|---|---|------------|------------|
| SPEC NO. : | APPROVED BY :   | CHECKED BY :  | DRAWN BY : | REVISION : |
| CS-013EU   |  |  | HONGYAN    | F          |
|            | DATE :  | DATE :  | DATE :     | PAGE :     |
|            | 23/12/13  | 20/12/13  | 20/12/13   | 1/1        |

CABLE MARKING

| REV. | DESCRIPTION                             | DATE     |
|------|---|----------|
| A    | INITIAL RELEASE                         | 11/10/02 |
| B    | UPDATE THE FORMAT AS SHOWN.             | 12/01/05 |
|      | ADD IN '(EU/SAA/SAB/IEC)' ON THE TITLE. |          |

BAO HING (SHENZHEN)

: - H03VVH2-F 2X0.75mm<sup>2</sup> <VDE> KEMA-KEUR + 0 + 0 + 0  
 <öVE> CEPEC IEMMEQU SABS 1574 (S) (N) (D) (F) BAOHING  
 LTSA-2F N14586 CE LF

|                                    |               |          |                |  |
|------------------------------------|---------------|----------|----------------|--|
| DRAWN                              | <i>Cai ZX</i> | 12/01/05 | FILENAME :     | TITLE :<br>CABLE MARKING<br>(EU/SAA/SAB/IEC)  |
| CHECK                              | <i>meta</i>   | 13/01/05 | CABLE MARKING/ |  |
| APPR                               | <i>meta</i>   | 13/01/05 | BAO HING/H03/  |  |
| SCALE                              | N.T.S.        | REV.     | B              |  |
| REFERENCE :                        |               |          |                |  |
| H03VVH2-F 2X0.75mm <sup>2</sup> LF |               |          |                |  |

## 2. PLUG

| REV | DESCRIPTION                     | DATE     |
|-----|---------------------------------|----------|
| Q   | ADD CATALOGUE NO. 'SSEU2.5SA2'. | 24/03/17 |
| R   | ADD CATALOGUE NO. 'VBEU2.5S2'.  | 28/06/18 |

### 2.1. SCOPE

The plug shall be in accordance with specification EN 50075` Flat non-wirable two-pole plugs, 2.5A 250V, with cord, for the connection of class II-equipment for household and similar purposes.

### 2.2. CONSTRUCTION

The plug construction shall comply with our catalogue No: M5206, V4206, M4206, EU2.5S2, GPEU2.5S2 , APEU2.5S2 , APEU2.5S2G, APEU2.5BS2G , MFEU2.5S2, VNEU2.5S2, SSEU2.5SA2 & **VBEU2.5S2**.

### 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 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.  | 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.  | Temperature rise test      | An alternating current of 4A is passed through poles for 1 hour.   | The temperature rise at any points shall not exceed 45°. |
| 5.  | Bending test               | The sample shall be loaded with a weight of 10N for 0.75mm <sup>2</sup> or less, 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 10,000.The rated current of plug is passed through the conductors. | No damage and the voltage drop shall not exceed 10mV.    |
| 6.  | 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.   | No damage and the pins shall not turn.                   |

|            |              |          |  |
|------------|--------------|----------|--|
| DRAWN:     | LI XIA       | 28/06/18 | TITLE:<br>EUROPEAN PLUG<br>(2.5A 250V) |
| CHECK:     | <i>Feng</i>  | 28/06/18 |  |
| APPR:      | <i>heith</i> | 28/06/18 |  |
| REV:       | R            |          |  |
| REFERENCE: |              |          |  |



| NO. | TEST ITEM             | DESCRIPTION  | ACCEPTANCE CRITERIA   |
|-----|-----------------------|--|---|
| 7.  | Cold impact test      | The samples are kept in a refrigerator at a temperature of $-15\pm 2^{\circ}\text{C}$ for at least 16 hours. The samples are then allowed to fall by the hammer (1000g) from a height of 10cm.   | No damage   |
| 8.  | Abrasion test         | The pin of sample slopes downwards at angle of $10^{\circ}$ to the horizontal. The sample is loaded with a force of 4N on the pin. The number of movement is 20,000 and the length of pin subjected to abrasion is approx. 7mm over the insulating collar. | No damage   |
| 9.  | Heat deformation test | The samples are kept for 1 hour in a heating cabinet at temperature of $100\pm 5^{\circ}\text{C}$ .  | No damage   |
| 10. | Heat pressure test    | The samples are applied 20N (2.04kg) at a temperature of $80\pm 2^{\circ}\text{C}$ for 1 hour.   | No damage   |
| 11. | Ageing test           | The samples are kept for 168 hours in a heating cabinet at temperature of $80\pm 2^{\circ}\text{C}$ .  | No damage   |
| 12. | Pressure test         | The samples are applied a force of 150N for 5 mins at room temperature. The samples are then allowed to rest for 15 mins.  | No damage and dimension changes to the plug.  |
| 13. | Cord-anchorage test   | The cord is subjected to pulls of 50N (2.5A) or 60N (10/16A) force 100 times with jerk each lasting 1 sec. Thereafter the cord is subjected to a torque of 0.1Nm for $0.5\text{mm}^2$ and 0.15Nm for $0.75\text{mm}^2$ or more for 1 min.                  | The cord shall not be damaged and shall not been displaced by more than 2mm.  |
| 14. | Pin pull test         | The plug is placed in an oven of $70\pm 2^{\circ}\text{C}$ for 1 hour. A pull force of 40N is applied on the pins in turns. After the test, the plug is allowed to cool down to ambient temperature  | The pin shall not have been displaced by more than 1mm.   |
| 15. | Ball pressure test    | A steel ball of 5mm in diameter is applied with 20N force on the sample at a temperature of $125\pm 5^{\circ}\text{C}$ 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 $750\pm 10^{\circ}\text{C}$ 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 paper or scorching of the board. |

|            |              |          |  |
|------------|--------------|----------|--|
| DRAWN:     | LI XIA       | 28/06/18 | TITLE:<br>EUROPEAN PLUG<br>(2.5A 250V) |
| CHECK:     | <i>Feng</i>  | 28/06/18 |  |
| APPR:      | <i>Keith</i> | 28/06/18 |  |
| REV:       | R            |          |  |
| REFERENCE: |              |          |  |

### 3. CONNECTOR

| REV | DESCRIPTION                     | DATR     |
|-----|---------------------------------|----------|
| AE  | ADD IN CATALOGUE NO. 'VNBC7S'.  | 27/06/19 |
| AF  | ADD IN CATALOGUE NO. 'VNBC7SL'. | 07/08/19 |

#### 3.1. SCOPE

The connector shall be in accordance with IEC 60320-1 or EN 60320-1,  
Test specification - appliance couplers.

#### 3.2. CONSTRUCTION

The connector construction shall comply with our catalogue No: VAC7S, VAC7A, SZC7S, APC7S, APC7Q, DLC7U2, AP7M16, SOC7S, VCC7, APC7K, APC7H, MFC7S, VAC7EA, APC7HB, VNC7S, VNC7A, VAC7SR, VBC7A & VNBC7S  
**VNBC7SL** ..... " All Connectors complying to Standard Sheet C7"

#### 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 20°C-30°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 contacts 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      | 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.<br>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%. | i) The pin with the weight should not be withdrawn from the connector for more than 3 seconds.<br><br>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.<br><br>The test is repeated after temperature rise test. |

|            |          |          |   |
|------------|----------|----------|---|
| DRAWN:     | PEIYUAN  | 07/08/19 | TITLE :<br>EUROPEAN & BRITISH<br>APPLIANCE COUPLERS |
| CHECK:     | Peiyuan  | 07/08/19 |   |
| APPR:      | Jianying | 07/08/19 |   |
| REV:       | AF       |          |   |
| REFERENCE: |          |          |   |

| NO. | TEST ITEM              | DESCRIPTION  | ACCEPTANCE CRITERIA  |
|-----|------------------------|--|--|
| 5.  | Glow wire test         | Glow wire is applied for 30s with temperature of 750°C on inserts and housings retaining contacts and 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 less, 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.<br>For round cord, the sample is turned 90 degree around the axis of cable after 10,000 cycles.<br>The flexing is further completed in this axis.<br>Flat cable is flexed only along the bigger axis of the cable. | There shall be no complete breakage of any of the conductor.<br>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 0.1Nm(0.50mm <sup>2</sup> ) or 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.  |
| 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.  |

|        |         |          |
|--------|---------|----------|
| DRAWN: | PEIYUAN | 07/08/19 |
| CHECK: | Peiyuan | 07/08/19 |
| APPR:  | Jiaying | 07/08/19 |
| REV:   | AF      |          |

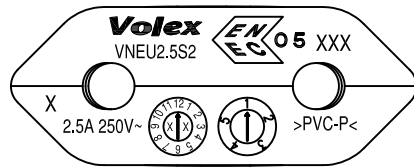
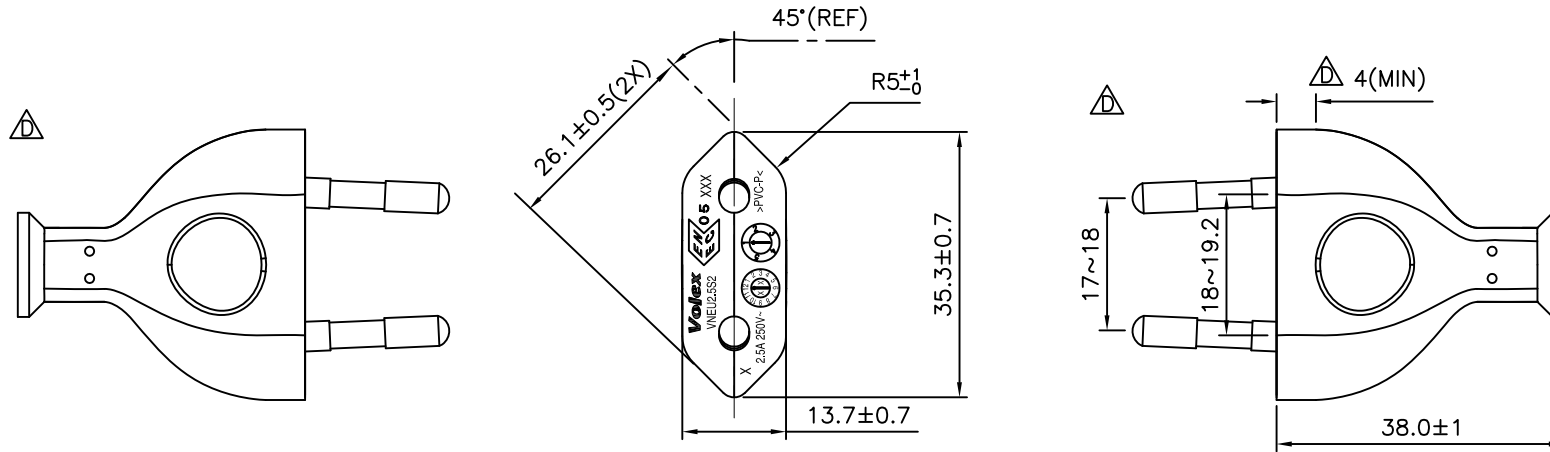
TITLE :  
EUROPEAN & BRITISH  
APPLIANCE COUPLERS

REFERENCE:

| NO. | TEST ITEM          | DESCRIPTION  | ACCEPTANCE CRITERIA                                  |
|-----|--------------------|--|--|
| 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.<br>i) 125°C for hot connectors.<br>ii) 125°C for parts retaining current carrying parts and earth circuit.<br>iii) 75°C for other parts for cold connector.<br>The connector is then cooled down to room temperature with cold water.  | The diameter of the impression shall not exceed 2mm. |
| 16. | Deformation test   | Rectangular blades(A &B) as specified in IEC/EN60320-1 fig.22 are used to apply pressure on the front portion of the connector.Blade A is applied on the side with groove with 10N force. Blade B is applied on the side of the connector with 5N force.The force is applied at a temperature of 70°C±2°C for 2 hours.The connector is then cooled down to room temperature with cold water. | The impression shall not be greater than 0.2mm.      |

|            |          |          |   |
|------------|----------|----------|---|
| DRAWN:     | PEIYUAN  | 07/08/19 | TITLE :<br>EUROPEAN & BRITISH<br>APPLIANCE COUPLERS |
| CHECK:     | Peiyuan  | 07/08/19 |   |
| APPR:      | Jianying | 07/08/19 |   |
| REV:       | AF       |          |   |
| REFERENCE: |          |          |   |

| REV. | DESCRIPTION                                  | DATE     |
|------|--|----------|
| C    | UPDATE PLUG VIEW AS SHOWN.                   | 15/04/16 |
| D    | UPDATE PLUG VIEW AS SHOWN.                   | 09/02/17 |
|      | ADD IN DIM '4(MIN)'.<br>ADD IN DIM '4(MIN)'. |          |



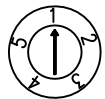
**MARKING DETAILS :**

**NOTE :**

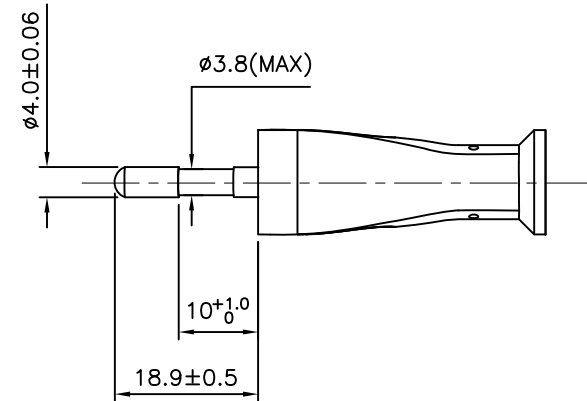
- 1.) ALL DIMENSIONS IN mm.
- 2.) X - CAVITY NO.
- 3.) XXX - MANUFACTURING LOCATION.
- 4.) YEAR & MONTH & WEEK CODE INSERT :



YEAR X X  
2017 = 1 7  
2018 = 1 8

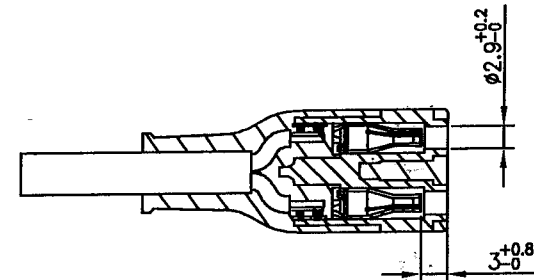
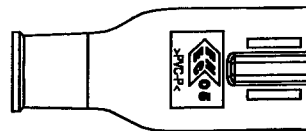
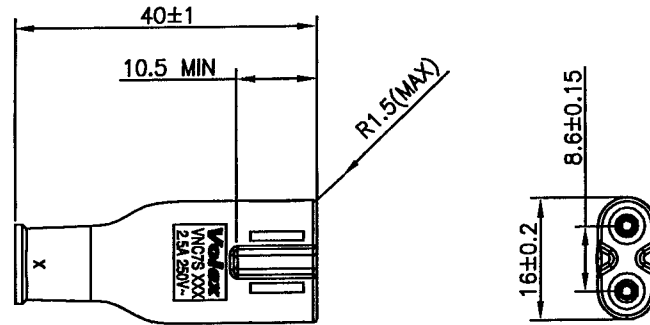


1 ~ 5 - week of the month

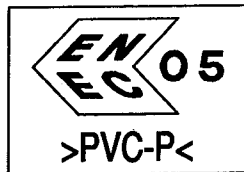


|  |                   |   |                   |            |          |  |   |  |
|--|-------------------|---|-------------------|------------|----------|--|---|--|
| HG   | HENG GANG (CHINA) |   | DRAWN             | JIN JU     | 09/02/17 | FILE NAME :                                | TITLE :<br><b>MOLDED PLUG<br/>VNEU2.5S2</b> |  |
| SM1/SMI  | ZHONGSHAN (CHINA) | X | CHECK             | Tong xiali | 09/02/17 | A-PLUG/EURO/<br>GENERAL/<br>VNEU2.5S2-EURO |   |  |
| VH   | HANOI (VIETNAM)   |   | APPR              | heith      | 09/02/17 | N.T.S.                                     |   |  |
| B  | BATAM (INDONESIA) |   | REV.              | D          | SCALE    |  |   |  |
| VC   | CHENNAI (INDIA)   |   | REFERENCE :       |            |          |  |   |  |
| MANUFACTURE LOCATION MARK<br>( ' X ' IS APPLICABLE ONLY) |                   |   | EUROPEAN APPROVAL |            |          |  |   |  |

| REV. | DESCRIPTION      | DATE     |
|------|------------------|----------|
| A    | INITIAL RELEASE. | 30/03/15 |



**Volex**  
VNC7S XXX  
2.5A 250V~



MARKING DETAILS :

NOTES :

- 1.) ALL DIMENSIONS IN mm.
- 2.) X - CAVITY NO. (OPTIONAL)
- 3.) XXX - MANUFACTURING LOCATION.

|   |                   |   |                   |             |          |   |                           |  |
|---|-------------------|---|-------------------|-------------|----------|---|---------------------------|--|
| HG  | HENG GANG (CHINA) |   | DRAWN             | HUI QIONG   | 30/03/15 | FILE NAME :                                 | TITLE :                   |  |
| SM1/SMI   | ZHONGSHAN (CHINA) | X | CHECK             | Hui Qiong   | 30/03/15 | A-CONNECTOR/<br>EURO/GENERAL/<br>VNC7S-EURO | MOLDED CONNECTOR<br>VNC7S |  |
| VH  | HANOI (VIETNAM)   |   | APPR              | [Signature] | 31/3/15  | N.T.S.                                      |                           |  |
| B   | BATAM (INDONESIA) |   | REV.              | A           | SCALE    |   |                           |  |
| VC  | CHENNAI (INDIA)   |   | REFERENCE :       |             |          |   |                           |  |
| MANUFACTURE LOCATION MARK<br>(* X * IS APPLICABLE ONLY) |                   |   | EUROPEAN APPROVAL |             |          |   |                           |  |