

Datasheet

RS PRO 3m Power Cable

Stock No: 201-2420



FOR

EUROPEAN+KOREAN+RUSSIAN POWER SUPPLY CORDSET (PB FR)

CORD : H05VV-F 3X1.00mm² +K60227 IEC 3X1.00mm²

PVC LEAD FREE

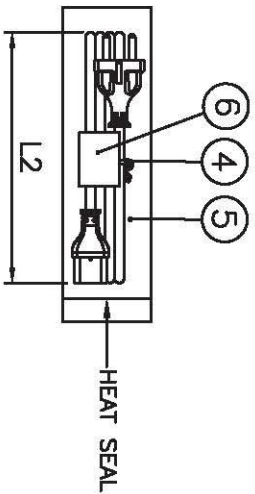
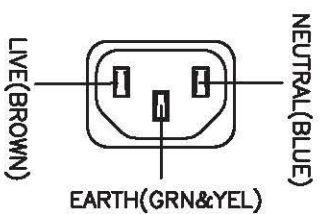
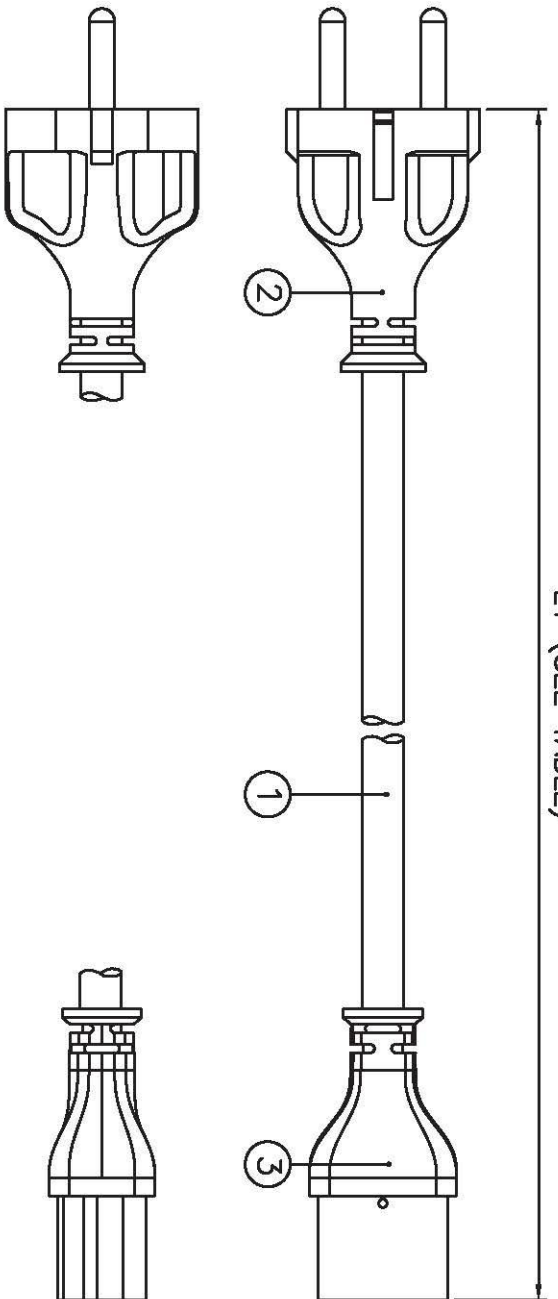
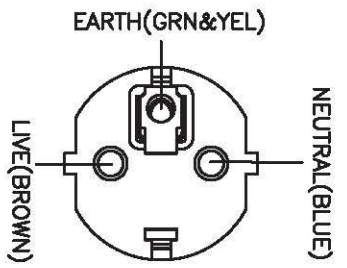


TABLE:

PART NO.	LENGTH(L1)	BINDING LENGTH(L2)
6266694-3M HYBRID	3000±50	210±30

1. TA HSIUNG (+VOLEX MARK).
- NOTE :**
1. ALL DIMENSIONS IN mm.
 2. THE CORD SHALL COMPLY WITH EN 50525-2-11 & IEC 60227 & K 60227-5.
 3. THE MOLDED PLUG SHALL COMPLY WITH VARIOUS EUROPEAN COUNTRIES' CONFIGURATION (NATIONAL STANDARD) AND TESTED TO IEC 60884-1 & GOST R 51322.1
 4. AND KS C 8305 AND TESTED TO KS C IEC 60884-1.
 5. THE MOLDED CONNECTOR SHALL COMPLY WITH IEC 60320-1 OR EN 60320-1 & K 60320-1.
 6. THIS PART TO BE MANUFACTURED AT ANY LOCATION WHICH HAS SAFETY APPROVAL.



REV.	DESCRIPTION	DATE
I	REMOVE INSULATION COLOR 'BLUE, BROWN, BLACK'	01/09/06
	FM. REV. H PER HD STANDARD.	
J	CHANGE THE COMPLIANCE STANDARD	23/12/13
	PER SAFETY.	
	UPDATE FORMAT AS SHOWN.	

1. PVC FLEXIBLE CORD

1.1 SCOPE

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

1.2 CONSTRUCTION

CONDUCTOR	ANNEALED COPPER WIRE
INSULATION	PVC (BLUE, BROWN, 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 ²	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	
DIELECTRIC-STRENGTH TEST IMMersed IN WATER, 20±5°C FOR MINIMUM 1HR	ON COMPLETED CABLE	—	2000 V FOR 15 MINS (MINIMUM)
	ON CORES	—	1500 V FOR 5 MINS (MINIMUM)
VOLTAGE TEST (D.C)	—	2000 V _{a.c} FOR 5 MINS (MINIMUM) OR 5000 V _{d.c} FOR 5 MINS (MINIMUM)	
INSULATION RESISTANCE TEST (70°C)	MΩ km	> 0.01	
CONDUCTOR RESISTANCE TEST (20°C)	Ω /km	≤ 19.5	

TITLE : CABLE SPECIFICATION

EUROPEAN APPROVED POWER SUPPLY CABLE
H05VV-F 3X1.00mm²



SPEC NO. :	APPROVED BY :	CHECKED BY :	DRAWN BY :	REVISION :
	<i>[Signature]</i>	<i>[Signature]</i>	HONGYAN	J
	DATE :	DATE :	DATE :	PAGE :
	30/12/13	27/12/13	23/12/13	1/1

REV.	DESCRIPTION	DATE
D	REVISE CABLE DESCRIPTION PER ECNO19-09.	13/01/10
E	CHANGE STANARD NO. AS SHOWN.	10/05/19

1. PVC FLEXIBLE CORD

1.1 SCOPE

This specification shall be in accordance with K 60227-5. \triangle

1.2 CONSTRUCTION

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

ITEM	UNIT	SPEC. VALUE	
MAXIMUM CONDUCTOR TEMPERATURE IN NORMAL USE	°C	70	
RATED VOLTAGE	V	300/500	
NO. OF CORE	NO.	3	
CONDUCTOR NOMINAL CROSS-SECTIONAL AREA	mm ²	1.0	
MAX. DIAMETER OF CIRCULAR COPPER CONDUCTORS	mm	1.5	
MIN. AVE. THICKNESS OF INSULATION	mm	0.6	
MIN. THICKNESS AT ANY POINT OF INSULATION	mm	0.44	
MIN. AVE. THICKNESS OF JACKET	mm	0.8	
MIN. THICKNESS AT ANY POINT OF JACKET	mm	0.58	
OVERALL DIAMETER OF JACKET	mm	6.3~8.0	
VOLATGE TEST IMMERSED IN WATER (20±5°C, AT LEAST 1HR)	ON COMPLETED CABLES	–	2000V FOR 5 MINS (MINIMUM)
	ON CORES	–	1500V FOR 5 MINS (MINIMUM)
MINIMUM INSULATION RESISTANCE TEST (70°C)	Mohm.km	> 0.01	
MAXIMUM RESISTANCE OF CONDUCTOR (20°C)	Ω /km	<= 19.5	



TITLE : CABLE SPECIFICATION

KOREAN APPROVED POWER SUPPLY CABLE
K60227 IEC 53 3X1.00mm² (H05VV-F)

SPEC NO. :	APPROVED BY :	CHECKED BY :	DRAWN BY :	REVISION :
	<i>Jianying</i>	<i>robin</i>	<i>ROBIN LIU</i>	E
	DATE :	DATE :	DATE :	PAGE :
	<i>13/05-19</i>	<i>10/05/19</i>	<i>10/05/19</i>	1/1

REV.	DESCRIPTION	DATE
B	UPDATE SPEC. VALUE AS PRODUCT SAFETY.	29/07/02
	CHANGE ACCORDANCE STD FM. 'IEC227' TO 'IEC 60227'.	
C	UPDATE SPEC. VALUE AS PRODUCT SAFETY.	17/08/04

1. PVC FLEXIBLE CORD

1.1 SCOPE

This specification shall be in accordance with IEC 60227. Δ

1.2 CONSTRUCTION

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

ITEM	UNIT	SPEC. VALUE	
TEMPERATURE RATING	$^{\circ}\text{C}$	70	
RATED VOLTAGE	V	300/500	
NO. OF CORE	NO.	3	
CONDUCTOR NOMINAL AREA	mm^2	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	
Δ VOLTAGE TEST - IMMersed IN WATER $20\pm 5^{\circ}\text{C}$ FOR MINIMUM 1 HR	ON COMPLETED CABLE	-	2000V for 5 mins. (minimum)
	ON CORES	-	1500V for 5 mins. (minimum)
INSULATION RESISTANCE TEST (70°C)	$\text{M}\Omega/\text{km}$	>0.01	
CONDUCTOR RESISTANCE (20°C)	Ω/km	≤ 19.5	





TITLE : CABLE SPECIFICATION
INTERNATIONAL APPROVED POWER SUPPLY CABLE
HO5VV-F 3X1.00 mm^2

SPEC NO. :	APPROVED BY :	CHECKED BY :	DRAWN BY :	REVISION :
	<i>Wang</i>	<i>Wato</i>	LI XF	C
DATE :	DATE :	DATE :	PAGE :	
18/08/04	18/08/04	17/08/04	1/1	

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE.	10/09/19

CABLE MARKING

TA HSING(+VOLEX MARK)

<VDE>  SU01167-18002 K60227 IEC 53 H05W-F 3G1.0mm² 300/500V
 TA HSING INDUSTRIES LTD. XXXX LF VOLEX 

NOTE :

1.) XXXX – YEAR OF MANUFACTURE.



DRAWN	FUWANG	10/09/19	FILENAME :	TITLE : CABLE MARKING (EU/VDE/IEC/KC)
C-ECA	FUWANG	10/09/19	CABLE MARKING/TA HSING	
APPR	ROBERT W	10/09/19	+VOLEX MARK/EURO-VDE +KC/H05W-F+K60 227 IEC 3X1.0 LF	
SCALE	N.T.S.	REV.	A	
REFERENCE :				
H05W-F+K60227 IEC 3X1.0mm ² LF				

2. PLUG

REV	DESCRIPTION	DATE
AD	ADD IN CATALOGUE 'VNBEU16S3'.	15/07/19
AE	ADD IN CATALOGUE 'VNBEU16A3'.	28/08/19

1. SCOPE

The plug shall be in accordance with various European countries' configuration (national standard) and tested to IEC 60884-1 "Plugs and socket-outlets for household and similar purposes - Part 1: General requirements.

2. CONSTRUCTION

The plug construction shall comply with our catalogue No: M3204, EUH16S2, MP2210, EUC6, M2511, M2511A, EU10SC3, EU16VS2, EU16VJS2, EU16CS3, PH16CS3, PH16HA3, EU16CA3, EU16DS2, EU16DJS2, EU16JS2, VPEU16S3, GPEU16S3, VPEU16S2, DS16CS2, APEU16S3, APEU16BS3G, DS16ES2, APEU16CS3, APEU16CS3G, DLEU16S3, LSEU16THA3, VNEU16S3, VNEU16A3, CSEU16S3, VNBEU16S3 & **VNBEU16A3**

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	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 ²), 12A (1mm ²) or 16A (1.5mm ²) 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 ² or 20N for 1.00mm ² 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 ²) or 16A (1.0mm ² 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:	PEIYUAN	28/08/19	TITLE : EUROPEAN PLUG (IEC 60884-1)
CHECK:	<i>Peiyuan</i>	28/08/19	
APPR:	<i>ROBIN</i>	28/08/19	
REV:	AE		
REFERENCE:			

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 $-15\pm 2^{\circ}\text{C}$ for at least 16 hours. The samples are then allowed to fall by the hammer (1000g) from a height of 10cm.	No damage
10	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
11	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
12	Ageing test	The samples are kept for 168 hours in a heating cabinet at temperature of $70\pm 2^{\circ}\text{C}$.	No damage
13	Pressure test II	The samples are applied 300N (30.6kg) at a temperature of $20\pm 2^{\circ}\text{C}$ 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 ²) or 0.25Nm (others) for 1 min.	The cord shall not be damaged and shall not be 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 $125\pm 5^{\circ}\text{C}$ 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 and for a period of 30s. For all other parts, the wire is heated to $650\pm 10^{\circ}\text{C}$.	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:	PEIYUAN	28/08/19	TITLE : EUROPEAN PLUG (IEC 60884-1)
CHECK:	<i>Peiyuan</i>	<i>28/08/19</i>	
APPR:	<i>ROB AN</i>	<i>28/08/19</i>	
REV:	AE		
REFERENCE:			

2. PLUG

REV	DESCRIPTION	DATE
W	ADD IN CATALOGUE NO. 'VNBKR2.5S2'.	28/07/19
X	ADD IN CATALOGUE NO. 'VNBEU16A3'.	02/09/19

1. SCOPE

The specification applies to plugs conforming to KS C 8305 and tested to KS C IEC 60884-1

2. CONSTRUCTION

The plug construction shall comply with our catalogue No: MP2217, M2511, M2511A, KR16S2, KR15SC, KR3SC2, KR16CS3, KR16DS2, KR16CA3 , MFKR2.5S2 , EU16CS3, EU16JS2, DLEU16S3, VNEU16S3, VNEU16A3, VBKR2.5S2, M2511AW, VNBEU16S3, VNBKR2.5S2 & VNBEU16A3.

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	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 ²), 12A (1mm ²) or 16A (1.5mm ²) 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 ² or 20N for 1.00mm ² 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 ²) or 16A (1.0mm ² 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:	FUWANG	02/09/19	TITLE : KOREAN PLUG
CHECK:	<i>FUWANG</i>	02/09/19	
APPR:	<i>ROBIN</i>	02/09/19	
REV:	X		
REFERENCE:			

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 (30.61kgf) 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 (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 ²) 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:	FUWANG	02/09/19	TITLE : KOREAN PLUG
CHECK:	FUWANG	02/09/19	
APPR:	ROB-IN	02/09/19	
REV:	X		
REFERENCE:			

2. PLUG

REV	DESCRIPTION	DATE
N	ADD IN CATALOG VNBEU16S3.	15/07/19
O	ADD IN CATALOG VNBEU16A3.	19/09/19

1. SCOPE

The plug shall be in accordance with IEC 60884-1 and GOST R51322.1

2. CONSTRUCTION

The plug construction shall comply with our catalog No: EU16S3, EU16A3, M2511 M2511A, M3204, EU16DJS2, DS16CS2, EU16VJS2, DS16ES2, DLEU16S3, VNEU16S3, VNBEU16S3 & **VNBEU16A3**.

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	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 ²), 12A (1mm ²) or 16A (1.5mm ²) 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 ² or 20N for 1.00mm ² 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 ²) or 16A (1.0mm ² 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:	FUWANG	19/09/19	TITLE : RUSSIAN PLUG (16A 250V~)
CHECK:	<i>FUWANG</i>	19/09/19	
APPR:	<i>ROBERT</i>	19/09/19	
REV:	O		
REFERENCE:			

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.	Nodamage
10	Heat deformation test	The samples are kept for 1 hour in a heating cabinet at temperature of 100±5°C.	Nodamage
11	Heat pressure test	The samples are applied 20N (2.04Kgf) at a temperature of 80±2°C for 1 hour.	Nodamage
12	Ageing test	The samples are kept for 168 hours in a heating cabinet at temperature of 70±2°C.	Nodamage
13	Pressure test II	The samples are applied 300N (30.61Kgf) at a temperature of 20±2°C for 1 min.	Nodamage
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 ²) or 0.25Nm (others) for 1 min.	The cord shall not be damaged and shall not be 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 paper or sorching of the board.



DRAWN:	FUWANG	19/09/19	TITLE : RUSSIAN PLUG (16A 250V~)
CHECK:	<i>FUWANG</i>	<i>19/09/19</i>	
APPR:	<i>ROBIN</i>	<i>19/09/19</i>	
REV:	O		
REFERENCE:			

3. CONNECTOR

REV	DESCRIPTION	DATE
BC	ADD IN CATALOGUE NO. VSCC21.	21/06/19
BD	ADD IN CATALOGUE NO. VNBC13S.	03/07/19

1. SCOPE

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

2. CONSTRUCTION

The connector construction shall comply with our catalogue No: VAC5S, APC5A, APC5S, APC5M, VAC5AR, APC5SM, DLC5A3, V1625, V1625A, VAC19, VAC17S, VSCC13, AVL13, APC13, APC13S, VSC19, V1625LA, VAC19A, VSCC15, APC5SP, APC13F, V1625BS, APC13G, VAC13A, VAC13S, PIC17S, VIC13A, DLC5U3, VAC13KS, SOC5S, V1625H, VAC19KS, DLC5E3, HPC13A, V1625AT, VAC17A, APC5SF, VCC13, VCC5S, APC13H, VCC17S, VAC19H, APC13FH, APC13HC, VAC17KS, DLC5CS3, VNC13S, HWC13U, VNC5S, VNC13A, VAC19LA, VAC13AD, MS225A, VNC21S, VAC5ALS, VSCC21A, VSCC21 & VNBC13S.

"All connectors complying to Standard Sheet C5, C13, C15, C15A, C17, C19 and C21"

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	<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:	WANGHUI	03/07/19
CHECK:	<i>Hui</i>	03/07/19
APPR:	<i>hath</i>	03/07/19
REV:	BD	
REFERENCE:		

TITLE:
EUROPEAN & BRITISH
APPLIANCE COUPLERS

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 ² or 20N for 1.00mm ² 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 conductor. 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 ²) or 0.25Nm(others).	The cord shall not be damaged and shall not been 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:	WANGHUI	03/07/19	TITLE: EUROPEAN & BRITISH APPLIANCE COUPLERS
CHECK:	<i>Hui</i>	03/07/19	
APPR:	<i>Keith</i>	03/07/19	
REV:	BD		
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. i)125°C for hot connectors. ii)125°C for parts retaining current carrying parts and earth circuit. iii)5°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:	WANGHUI	03/07/19
CHECK:	<i>Hui</i>	03/07/19
APPR:	<i>Keith</i>	03/07/19
REV:	BD	

REFERENCE:

TITLE:
EUROPEAN & BRITISH
APPLIANCE COUPLERS

3. CONNECTOR

REV	DESCRIPTION	DATE
AI	ADD IN CATALOGUE NO. 'VSCC21'.	27/06/19
AJ	ADD IN CATALOGUE NO. 'VNBC13S'.	17/07/19

1. SCOPE

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

2. CONSTRUCTION

The connector construction shall comply with our catalogue No: 25AC5, VAC5S, APC5S, V1625, V1625A, VSCC13, APC13, APC13S, APC13G, VSCC15, VAC19, VAC5AR, APC5M, APC5SM, APC5A, APC13F, V1625BS, VAC19A, VSC19, VAC13A, VAC13S, PIC17S, VAC17S, DLC5U3, DLC5E3, APC5SF, APC13H, VAC19H, V1625H, APC13HC, VAC17A, DLC5CS3, VNC5S, VNC13S, VSCC21, **&VNBC13S.**

All Connectors complying to Standard Sheet C5, C13, C15, C17 and C19"

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. 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%. The test is repeated for hot connector with temperature of 120°C±2°C on the pins.	i)The pin with the weight should not be withdrawn from the connector for more than 3 seconds. 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. The test is repeated after temperature rise test.



DRAWN:	ROBINLIU	17/07/19	TITLE : KOREAN CONNECTOR
CHECK:	ROBIN	17/07/19	
APPR:	Jianying	17/07/19	
REV:	AJ		
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 ² or 20N for 1.00mm ² 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 conductor. 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 ²) or 0.25Nm(others).	The cord shall not be damaged and shall not been displaced by more than 2mm.



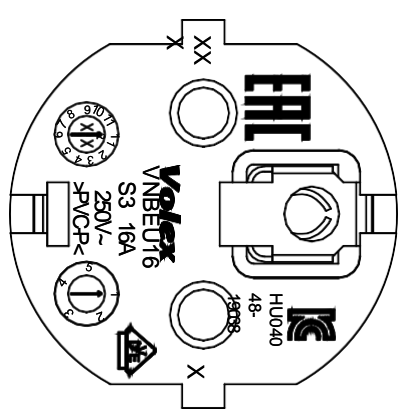
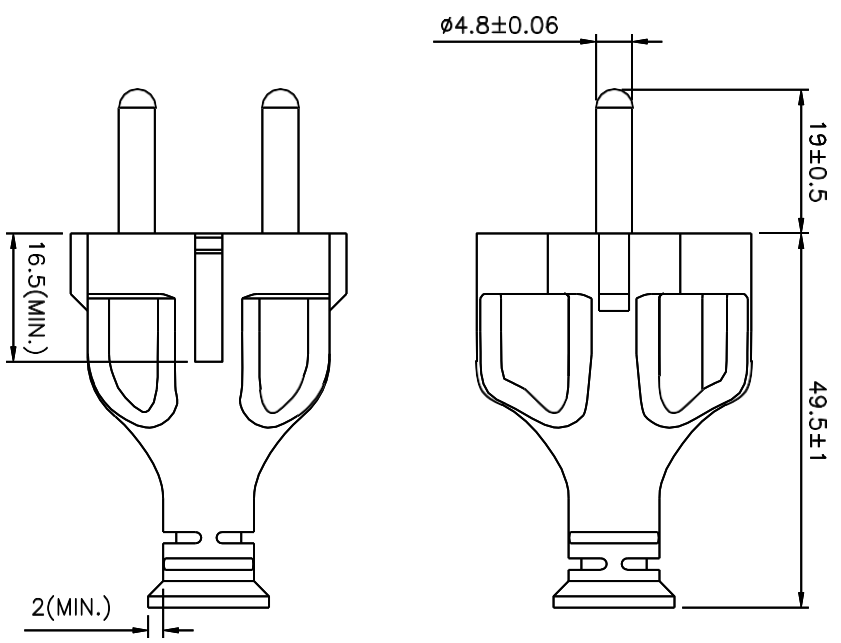
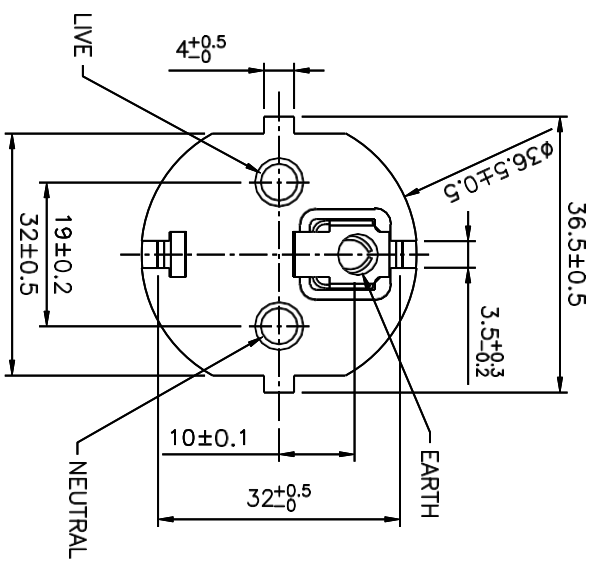
DRAWN:	ROBINLIU	17/07/19	TITLE : KOREAN CONNECTOR
CHECK:	<i>ROBIN</i>	<i>17/07/19</i>	
APPR:	<i>Jianying</i>	<i>17/07/19</i>	
REV:	AJ		
REFERENCE:			

NO.	TEST ITEM	DESCRIPTION	ACCEPTANCE CRITERIA
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 1hour.	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.



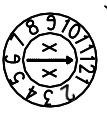
DRAWN:	ROBIN LIU	17/07/19	TITLE : KOREAN CONNECTOR
CHECK:	<i>ROBIN</i>	<i>17/07/19</i>	
APPR:	<i>Jianying</i>	<i>17/07/19</i>	
REV:	AJ		
REFERENCE:			

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/07/19

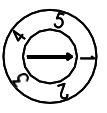


MARKING DETAILS :

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



YEAR XX
2019 = 19
2020 = 20

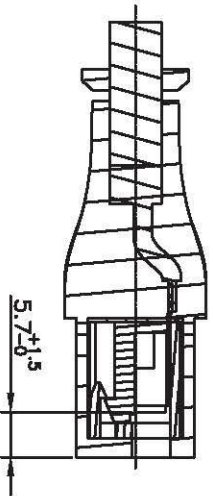
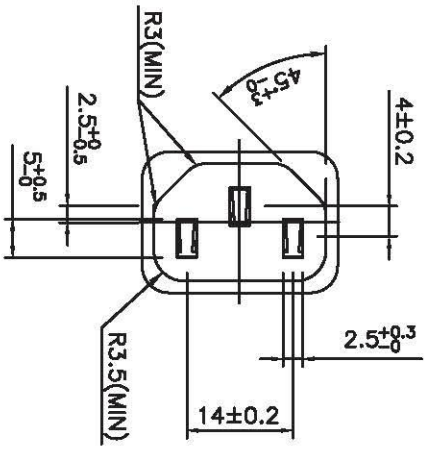
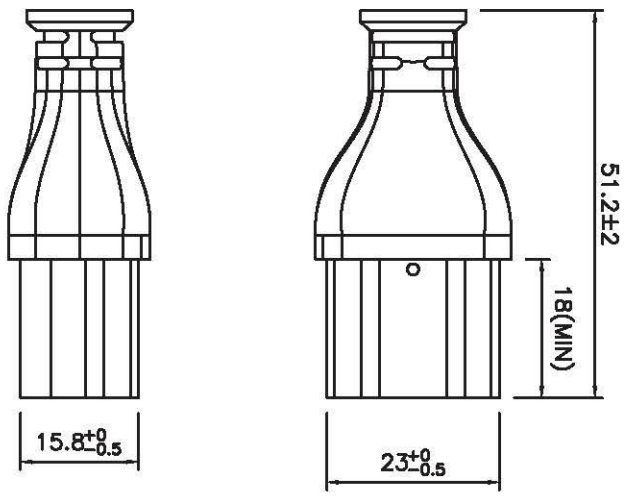


1 ~ 5 - week of the month

HG	HENG GANG (CHINA)	DRAWN	ROBIN LIU	11/07/19	FILE NAME :	TITLE :
SM1/SMI	ZHONGSHAN (CHINA)	CHECK	ROB LIU	16/07/19	A-PLUG/INVERSA/ GENERAL/ANBEU16S3 -1MM-GRND+D&+HC	MOLDED PLUG VNBEU16S3 (YEAR,MONTH, WEEK CODE)
VH	HANOI (VIETNAM)	APPR	Rob	16/07/19	N.T.S.	
B	BATAM (INDONESIA)	REV.	A	SCALE		
VC	CHENNAI (INDIA)	REFERENCE :				
MANUFACTURE LOCATION MARK (' X ' IS APPLICABLE ONLY)		EUROPEAN(VDE)+RUSSIAN+KOREAN APPROVAL				



REV.	DESCRIPTION	DATE
A	INITIAL RELEASE.	21/11/19



MARKING DETAILS :

- NOTES :
- 1.) ALL DIMENSIONS IN mm.
 - 2.) X - CAVITY NO. (OPTIONAL)
 - 3.) XXX - MANUFACTURING LOCATION.
 - 4.) HU04048-19039 - LICENCE NO. ON MANUFACTURING LOCATION.

HG	HENG GANG (CHINA)	DRAWN	FAW LMV	21/11/19	FILE NAME :	TITLE :
SMT/SML	ZHONGSHAN (CHINA)	CHECK	2023/11/19	22/11/19	A-CONNECTOR/ UNIVERSAL/GENERAL	MOLDED CONNECTOR
VH	HANOI (VIETNAM)	APPR	Jianying	25/11/19	AMCT18-800-88348	VNBC13S
B	BATAM (INDONESIA)	REV.	A			
VC	CHENNAI (INDIA)	SCALE				
MANUFACTURE LOCATION MARK (' X ' IS APPLICABLE ONLY)		REFERENCE :	EUROPEAN(ENEC-KEMA) + KOREA APPROVAL			