1.0 Reference and Address			
Report Number	150701611SHA-001	Original Issued: 22-Jul-2015	Revised: 8-Mar-2019
Standard(s)	Cord Sets And Power-Supply Cords [UL 817:2015 Ed.12+R:05May2017] Cord Sets And Power-Supply Cords [CSA C22.2#21:2014 Ed.9+A1]		

Applicant	HANGZHOU KAITE ELECTRICAL APPLIANCE CO.,LTD.	Manufacturer 1	**HANGZHOU KAITE ELECTRICAL APPLIANCE CO.,LTD.**
Address	SANDU INDUSTRIAL ZONE, JIANDE CITY, ZHEJIANG PROVINCE 311605	Address	SANDU INDUSTRIAL ZONE, JIANDE CITY, ZHEJIANG PROVINCE 311605
Country	China	Country	China
Contact	Mr BaoFengFang	Contact	Mr BaoFengFang
Phone	0571-58317207	Phone	0571-58317207
FAX	-	FAX	-
Email	gma@powerkaite.com	Email	gma@powerkaite.com

Manufacturer 2	**Zhejiang Camet Electrical Appliance Co.,Ltd.**	Manufacturer 3	**Kingtec (vietnam) technologies Co.,ltd.**
Address	Kaihua Industrial Zone, Kaihua, Quzhou, Zhejiang 324300	Address	HAISHAN INDUSTRIAL ZONE, PINGQIAN VILLAGE, HEXIA,DEHE COUNTY, Long An Province
Country	China	Country	Vietnam
Contact	Mr BaoFengFang	Contact	Mr BaoFengFang
Phone	0571-58317207	Phone	0571-58317207
FAX	-	FAX	-
Email	gma@powerkaite.com	Email	gma@powerkaite.com

2.0 Product Description	
Product	General Use Cord Set and Cord Connector
Brand name	KAITE, KMC
Description	The products covered by this report are general use cord set or cord connectors, with 5-15P/5-15R configuration, with current tap as line fitting (with single way receptacle) or 5-15P plug as line fitting, with cord connector as load fitting, with cord SJT or SJTW 16-12AWG X3C, it is for indoor use or outdoor use purpose (when for outdoor use purpose, the cord type should be SJTW which for outdoor purpose, and the minimum cord length should be 6ft), cord connected to power supply, see below for details
Models	40106,40314,40106A,KT101,KT101A
Model Similarity	For 40106, 40314,40106A,KT101, they are general use cord set, see below for details: 40106 with 5-15P/5-15R current taps (single way 5-15R receptacle) as line fitting with single way 5-15R cord connector as load fitting with SJT 16-14AWGX3C (cord length less than 50ft), for indoor use only 40314 with 5-15P plug as line fitting with three way 5-15R receptacles with SJTW 16-12AWGX3C for outdoour use 40106A: with 5-15P/5-15R configuration, with current tap as line fitting (with single way receptacle), with single way 5-15R cord connector as load fitting, with cord SJT 16-14AWGX3C in length less than 50ft (15.2m), for indoor use only KT101 with 5-15P plug as line fitting with single way 5-15R receptacles with SJT,SJTW 16-12AWGX3C with transparent enclosure, with indicator light, for indoor or outdoor use, there with two kinds of insert construction, see photo for details For KT101A, it is cord connector with cord, see below for details: KT101A: single way 5-15R receptacle, with cord SJT 16-14AWGX3C in length less than 50ft (15.2m), for indoor use only
Ratings	16AWGX3C 125VAC 13A 1625W 60Hz 14AWGX3C 125VAC 15A 1875W 60Hz 12AWGX3C 125VAC 15A 1875W 60Hz
Other Ratings	NA

3.0 Product Photographs

Photo 1 - Overall view of 40106

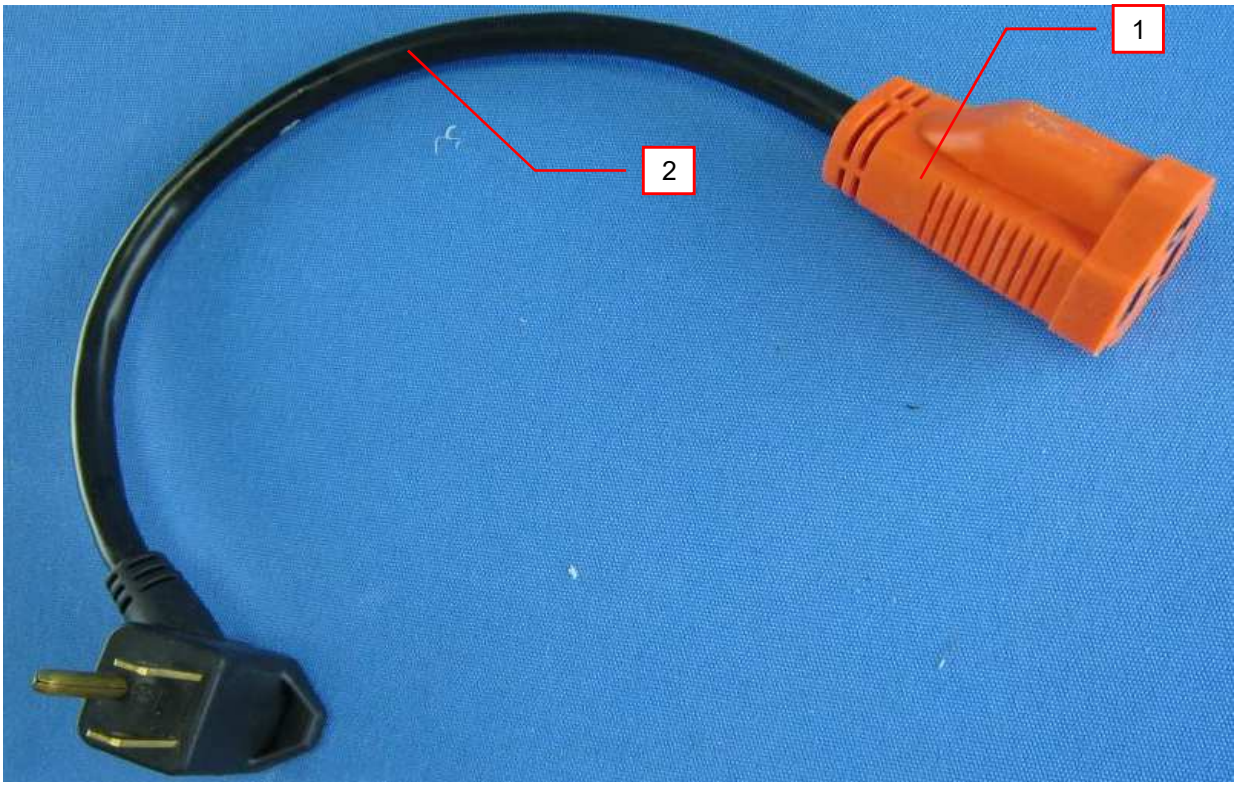


Photo 2 - Overall view of 40106

3.0 Product Photographs

Photo 3 - Overall view of 40106

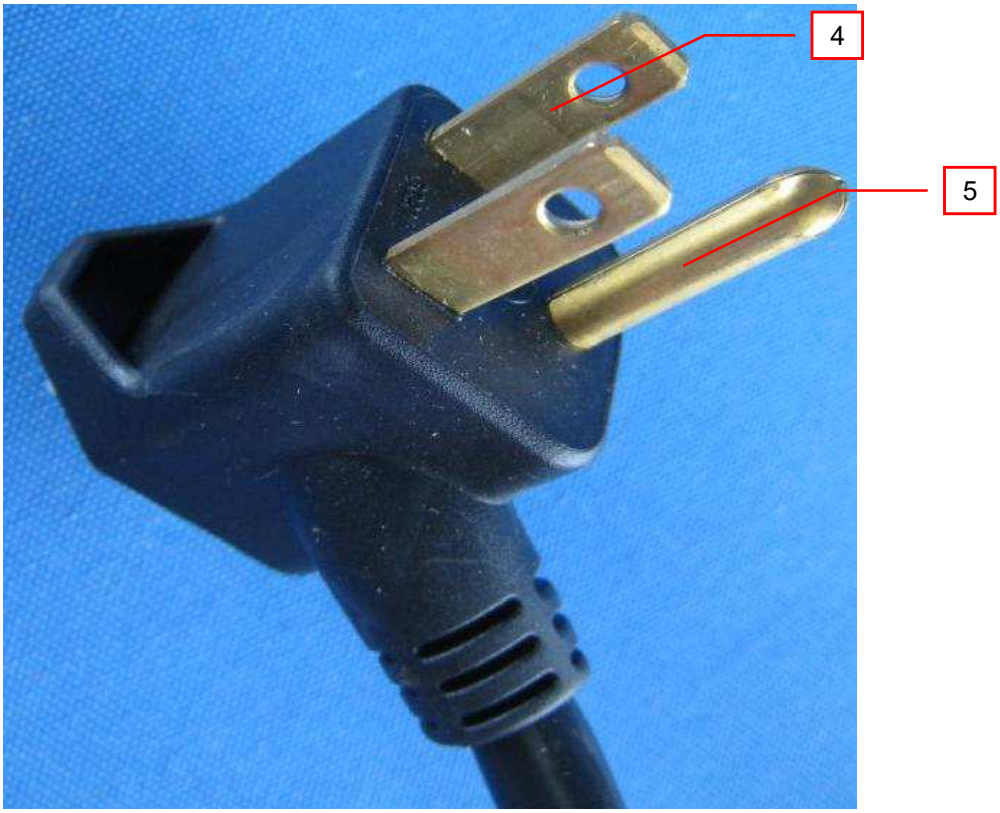
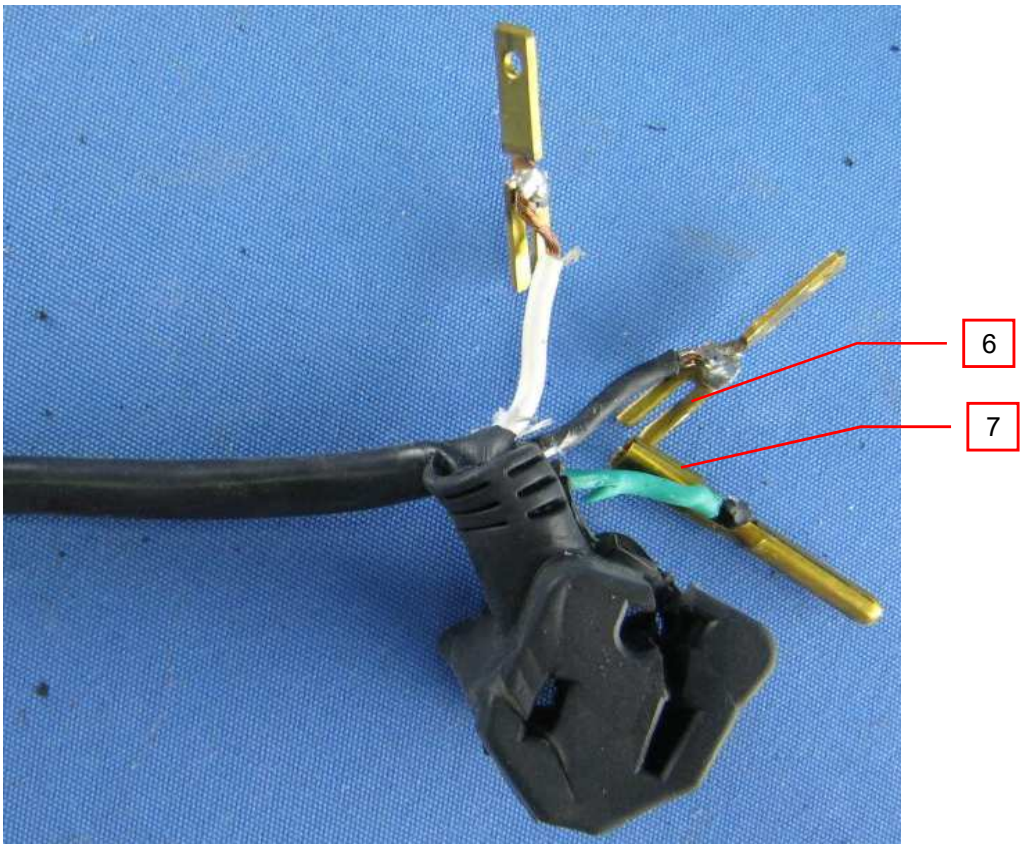
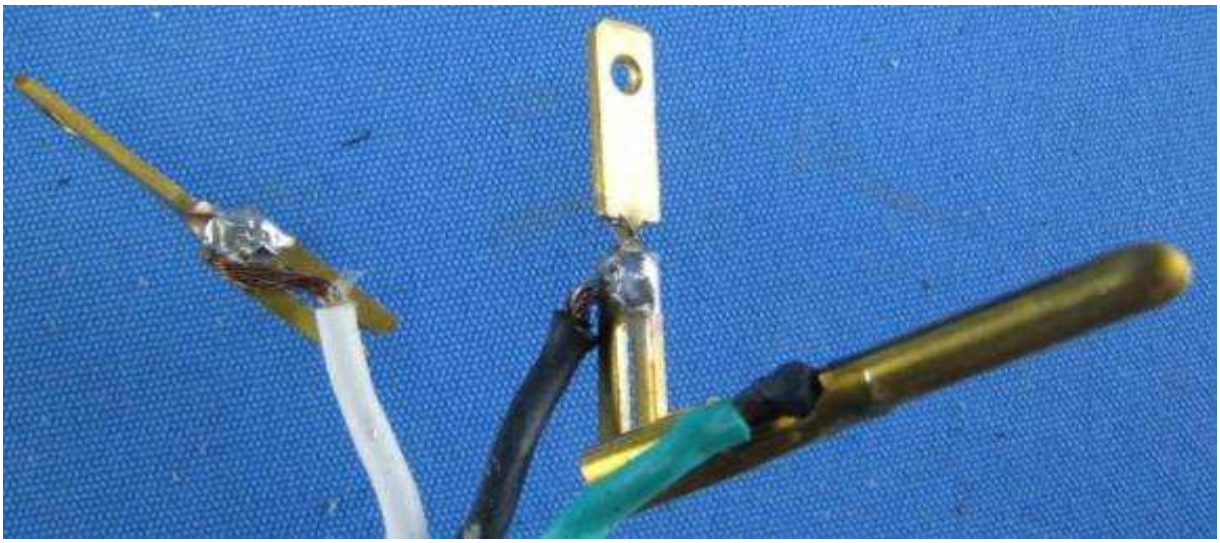


Photo 4 - Overall view of 40106



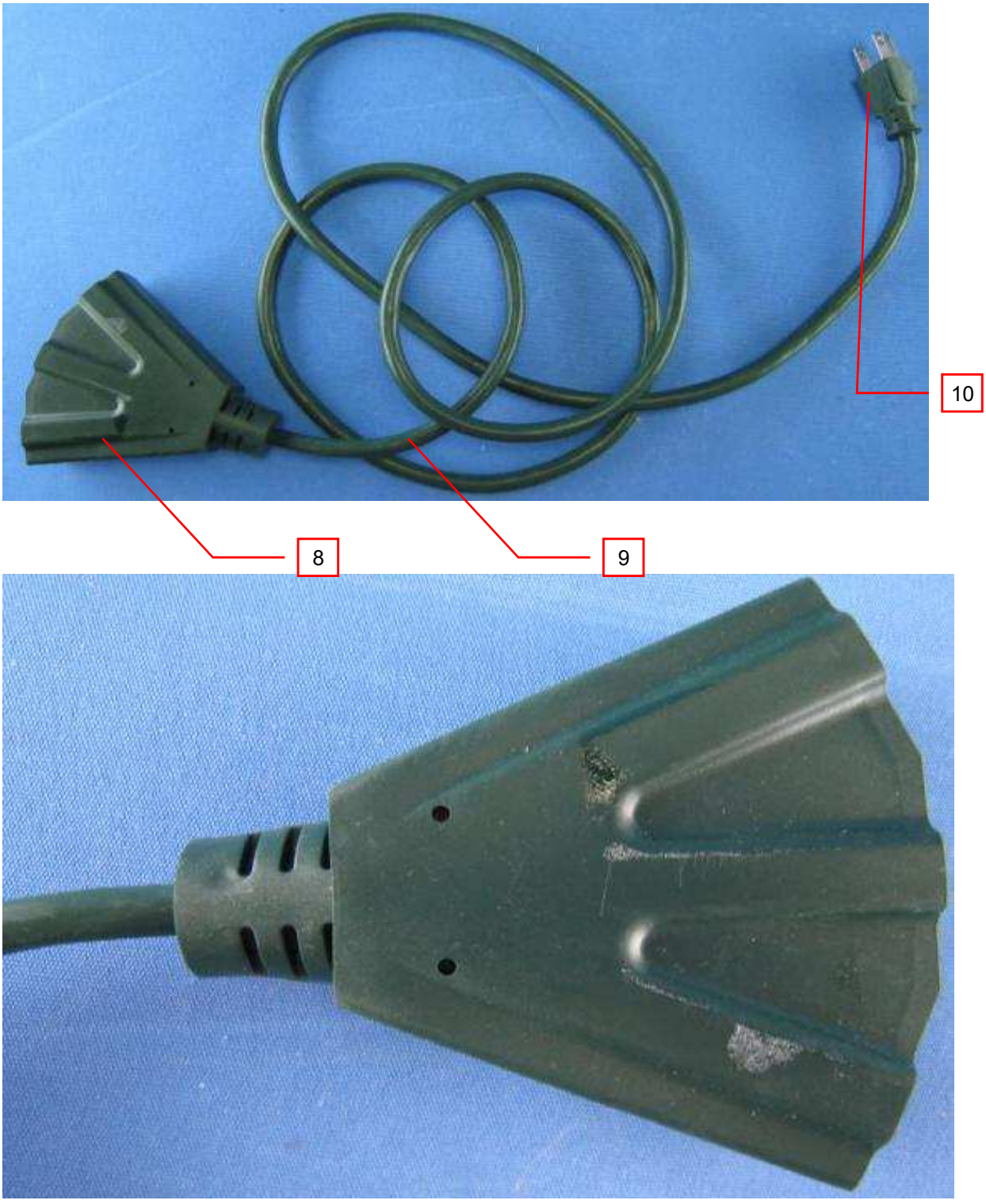
3.0 Product Photographs

Photo 5 - Overall view of 40106



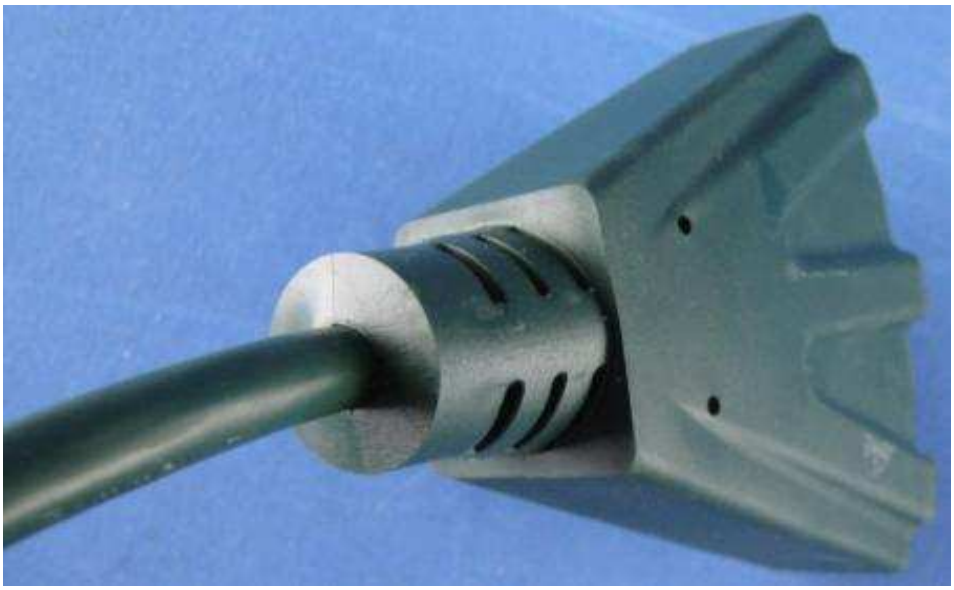
3.0 Product Photographs

Photo 6- Overall view of 40314



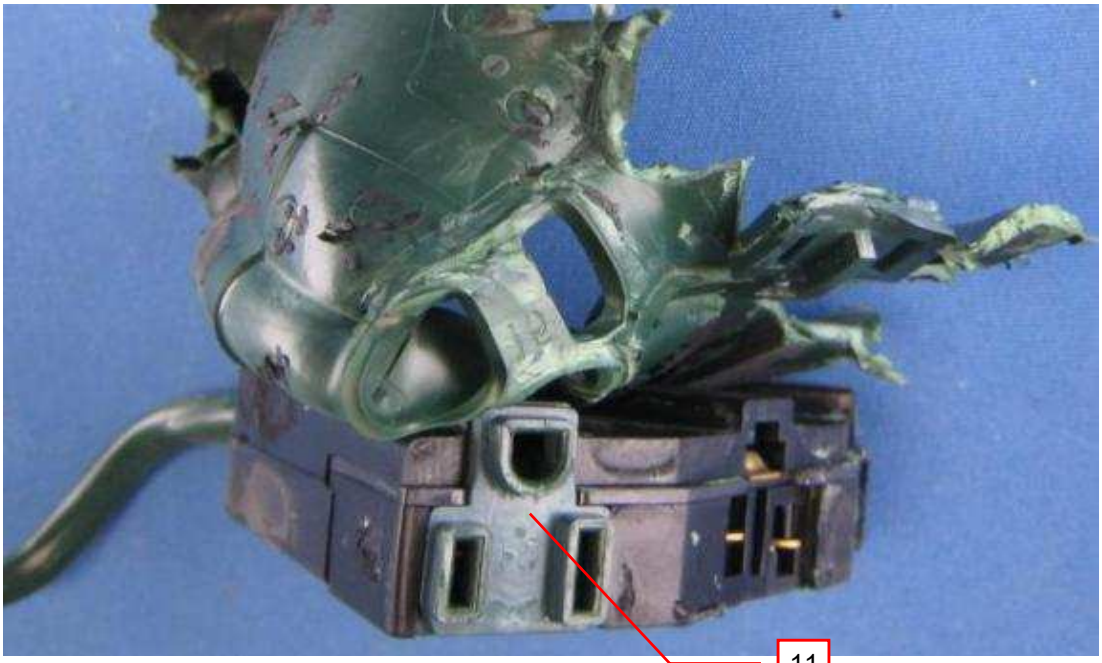
3.0 Product Photographs

Photo 7 - Overall view of 40314



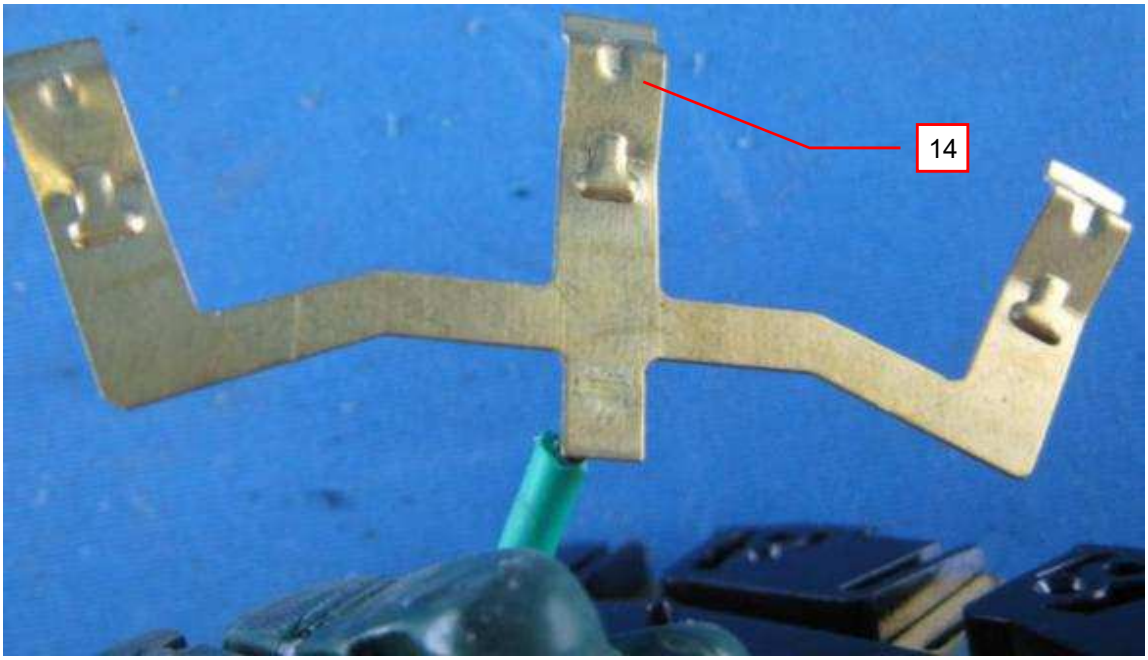
3.0 Product Photographs

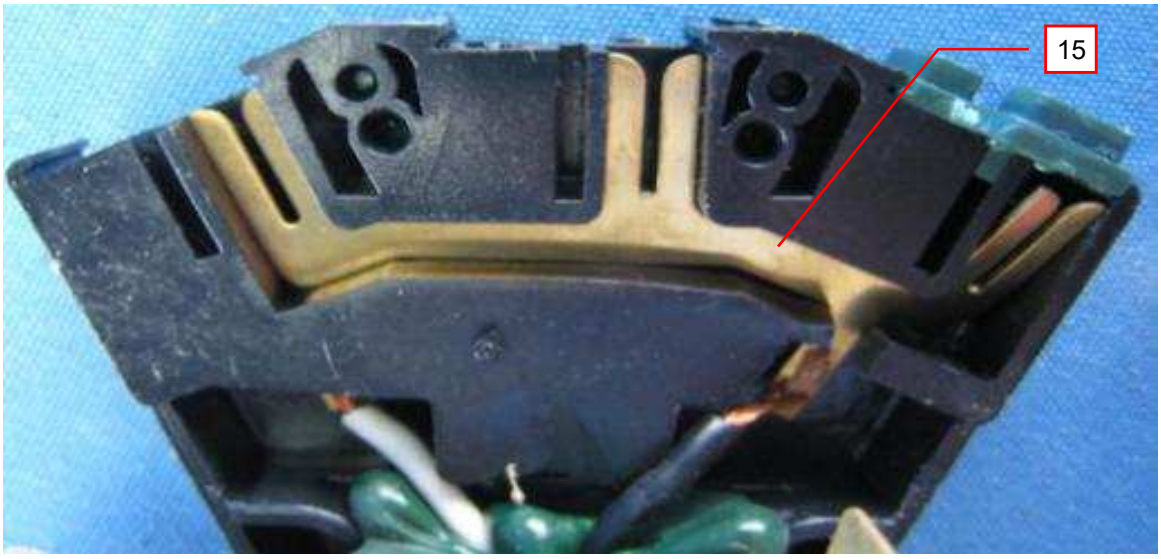
Photo 8 - Overall view of 40314



3.0 Product Photographs

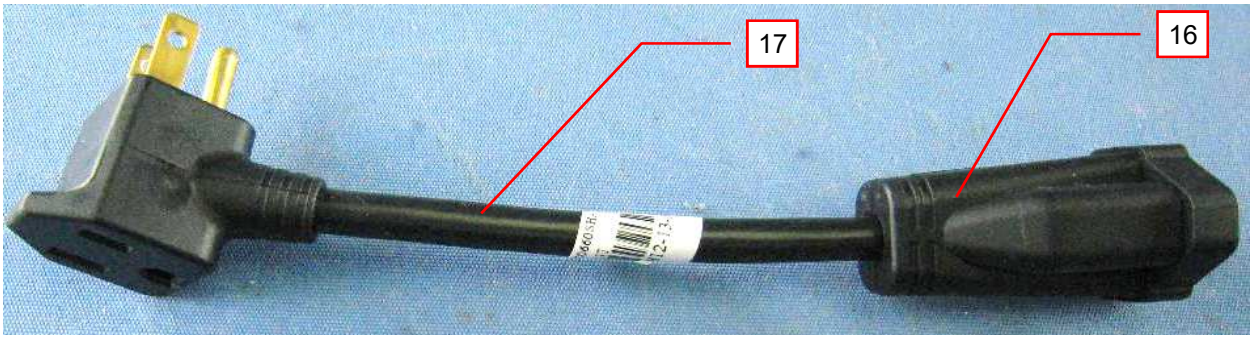
Photo 9 - Overall view of 40314

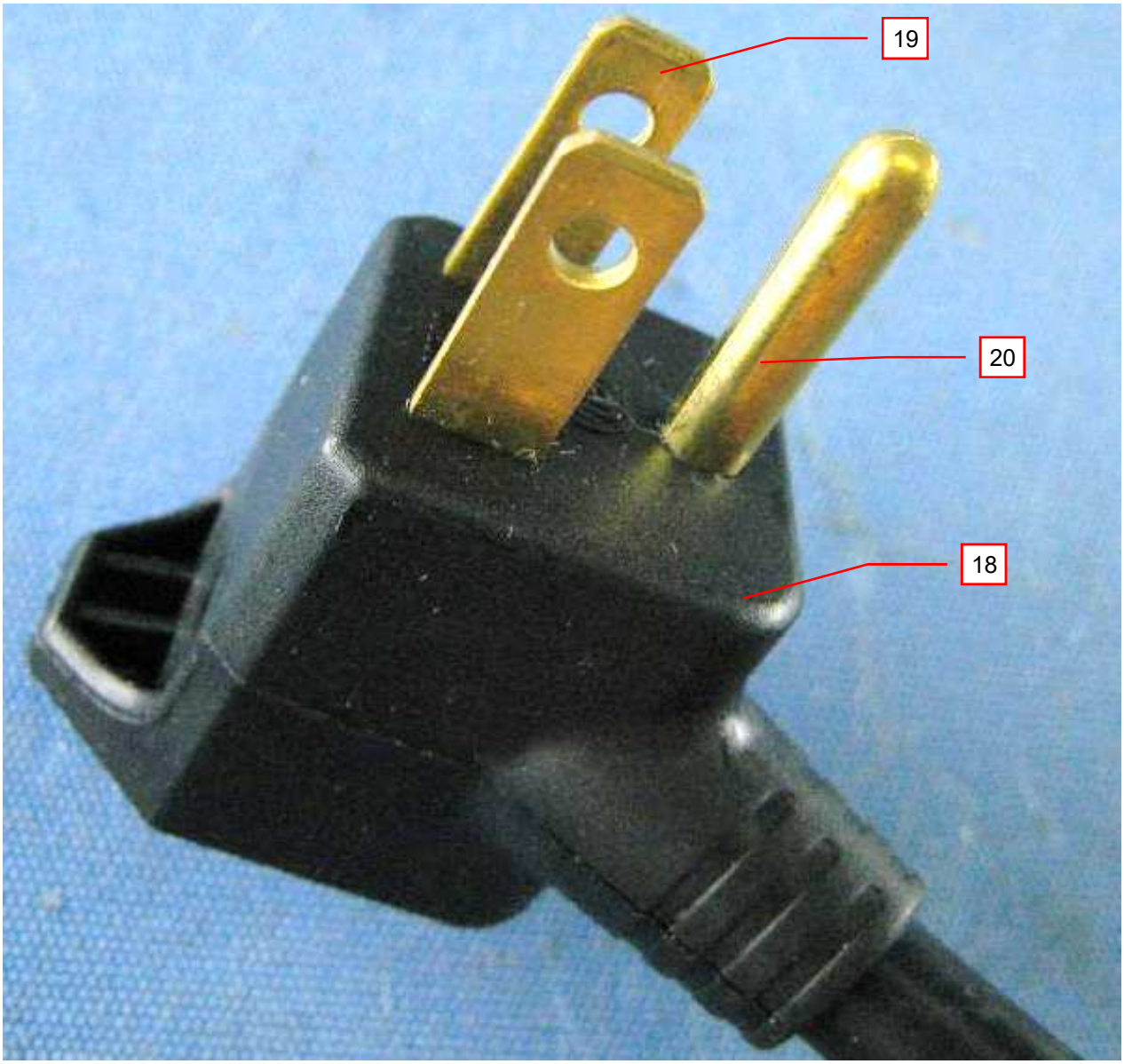




3.0 Product Photographs

Photo 10 - Overall view of 40106A



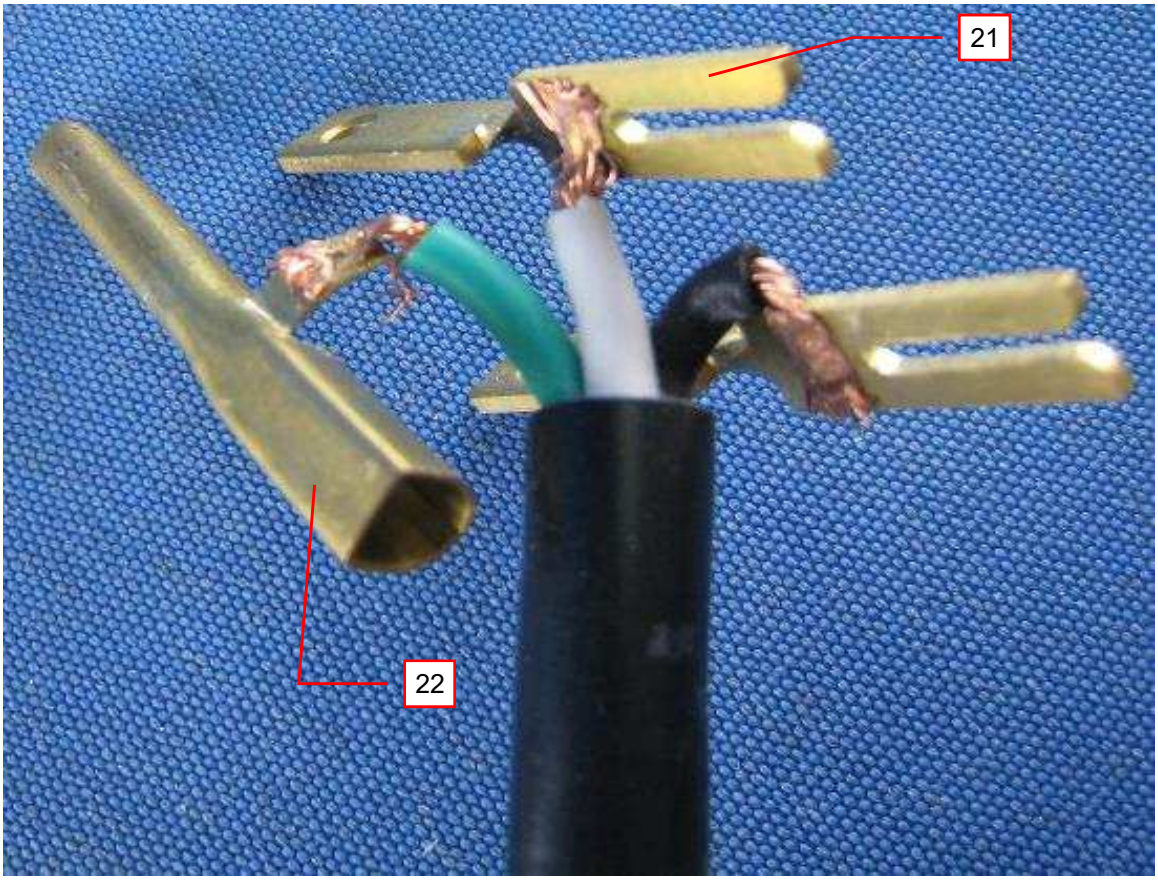


3.0 Product Photographs

Photo 11 - Overall view of current tap part of 40106A

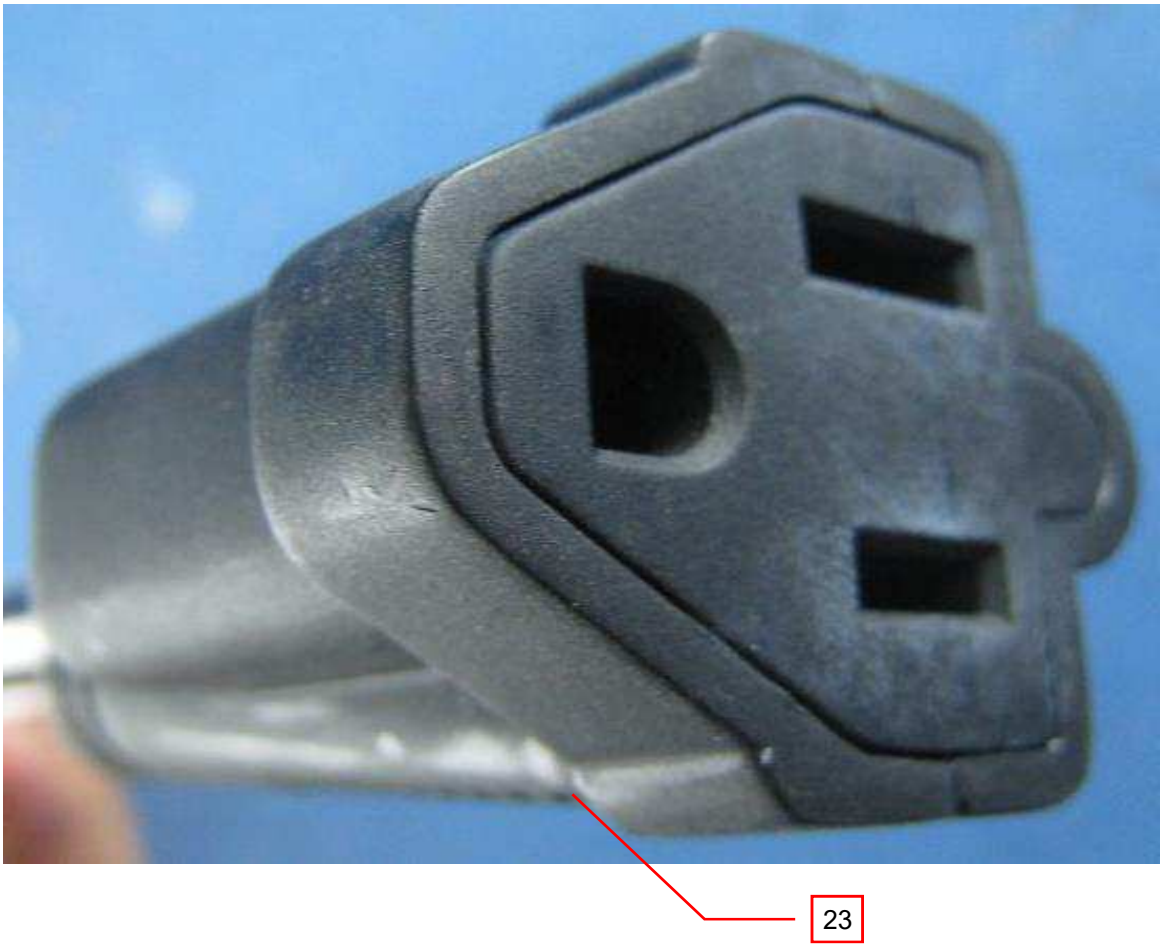
3.0 Product Photographs

Photo 12 - Overall view of current tap part of 40106A



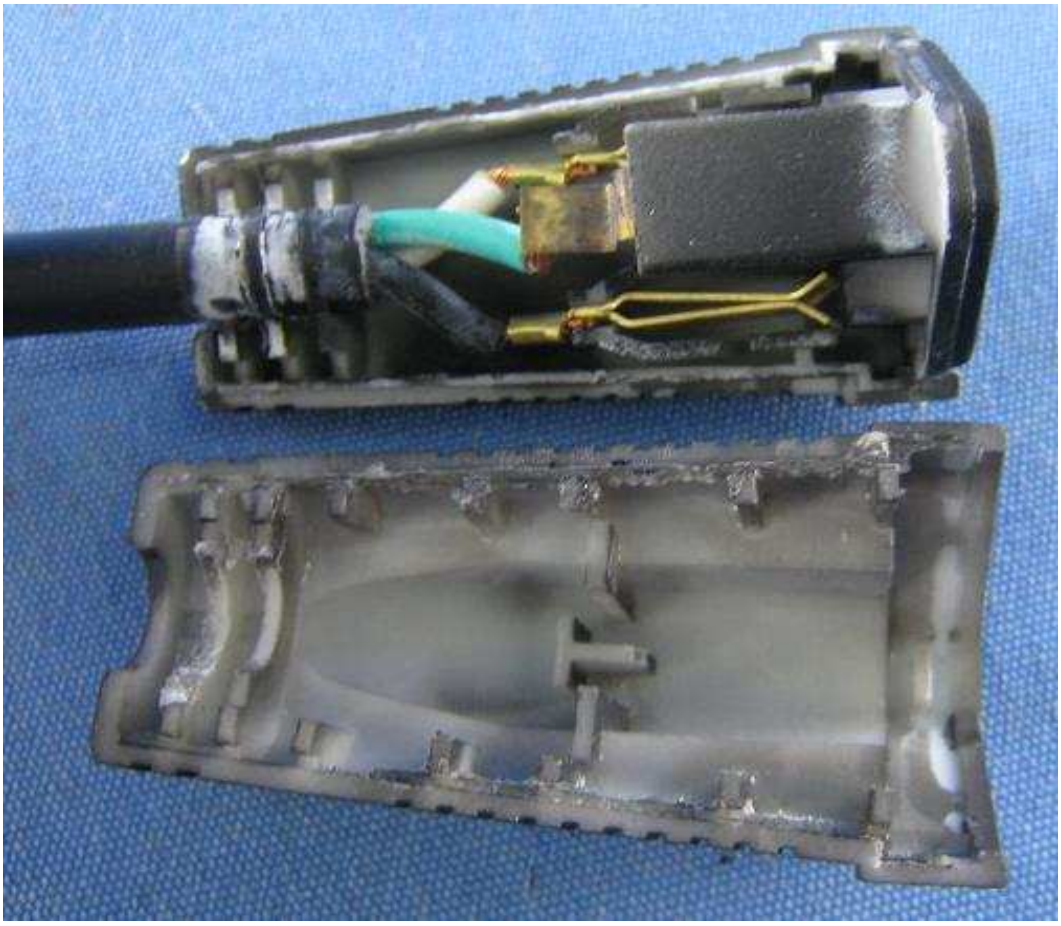
3.0 Product Photographs

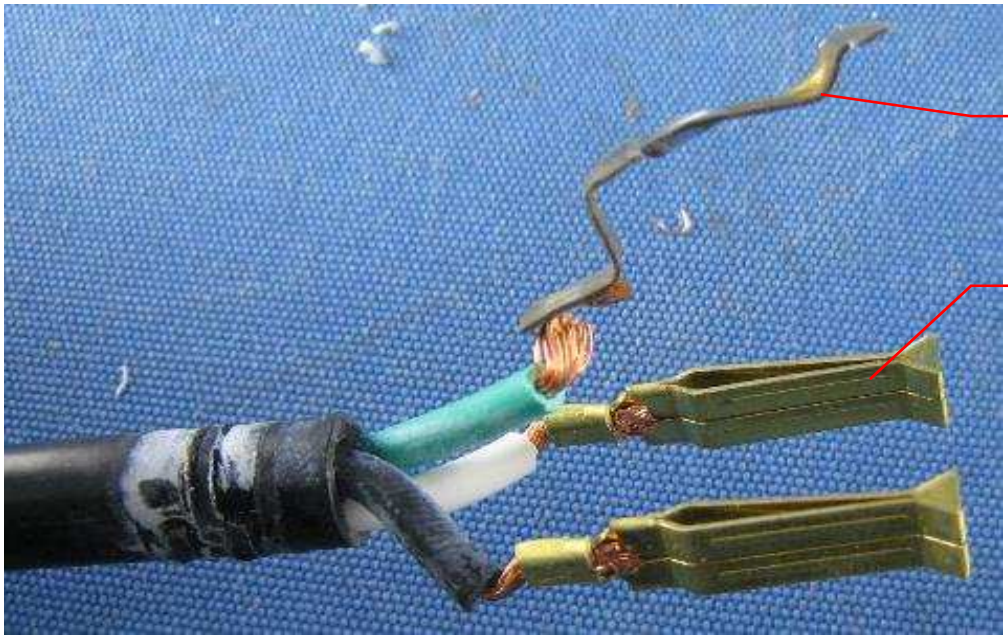
Photo 13 - Overall view of cord connector KT101A



3.0 Product Photographs

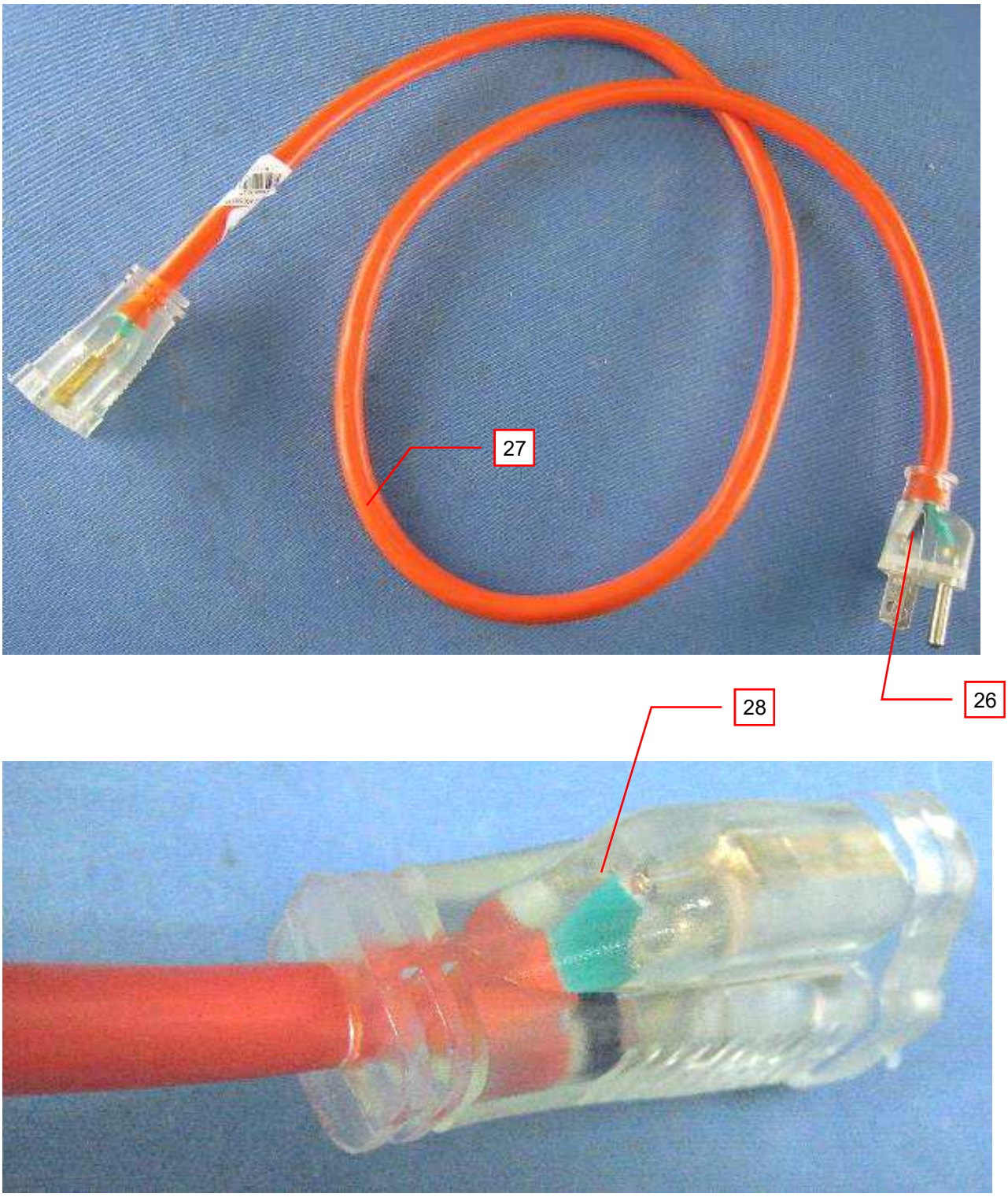
Photo 14 - Overall view of cord connector KT101A





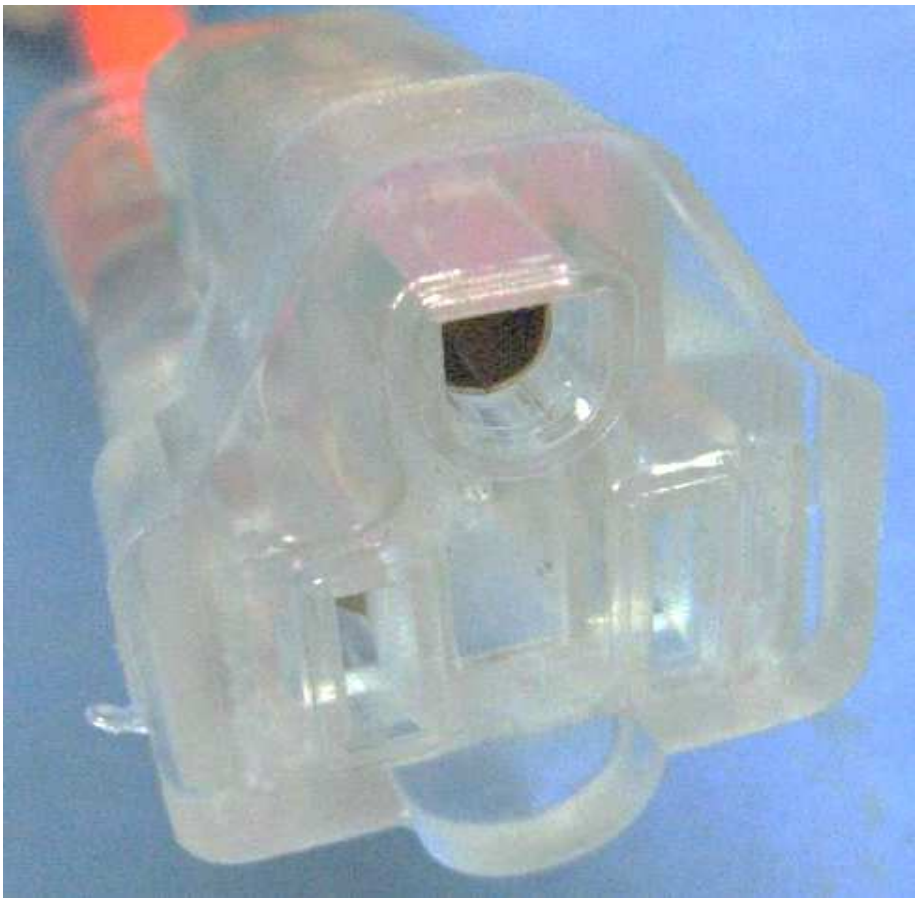
3.0 Product Photographs

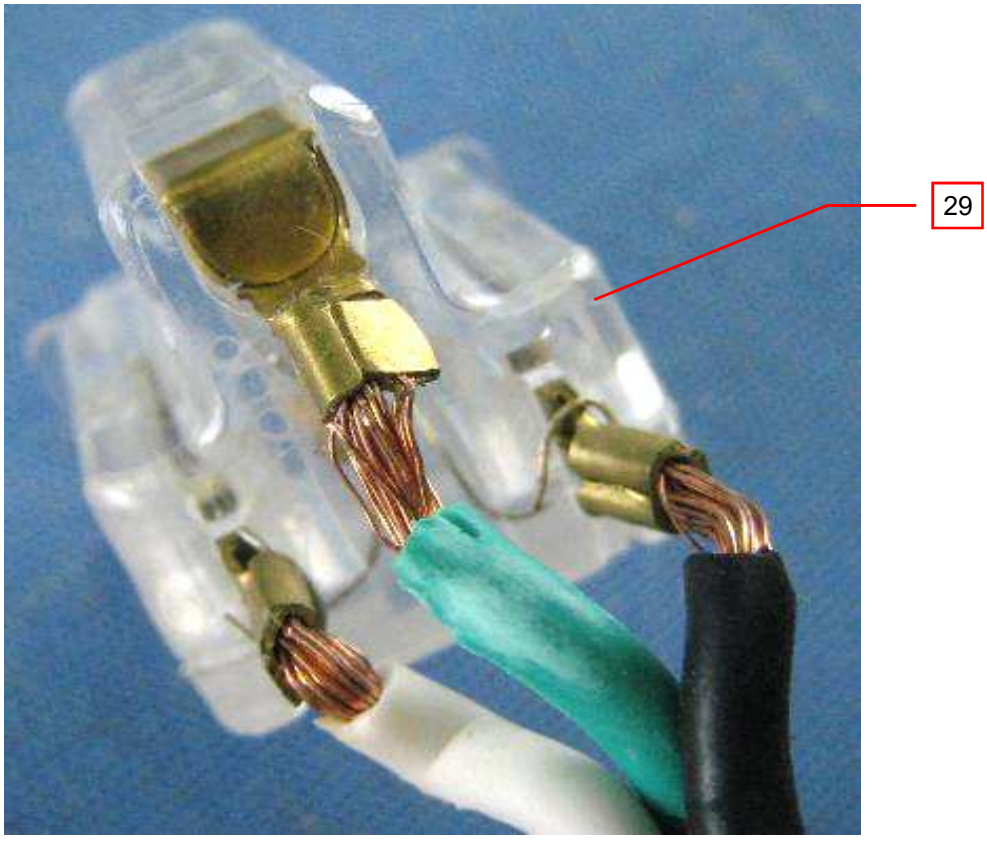
Photo 15 - Overall view of cord connector KT101



3.0 Product Photographs

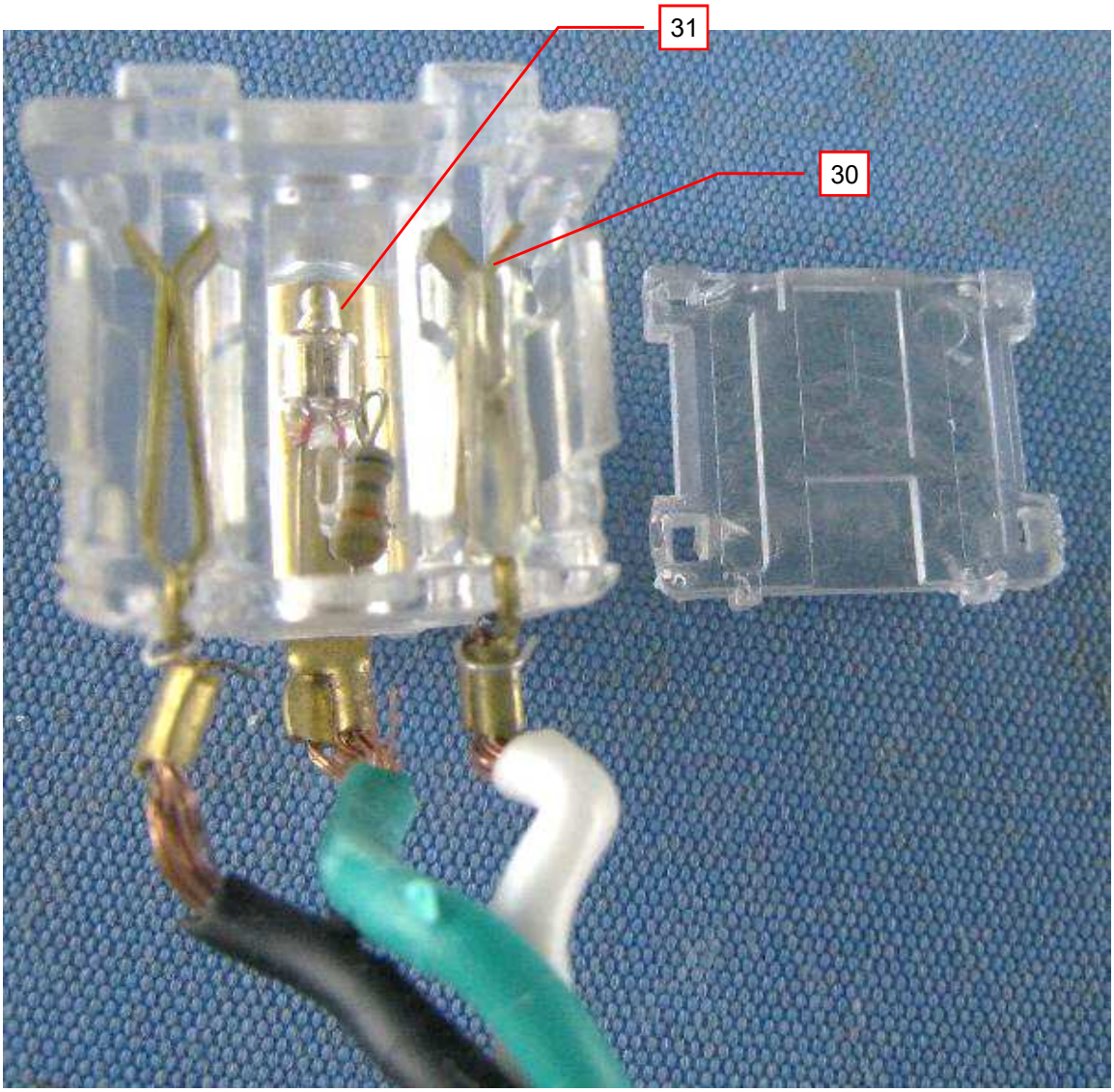
Photo 16 - Overall view of cord connector KT101





3.0 Product Photographs

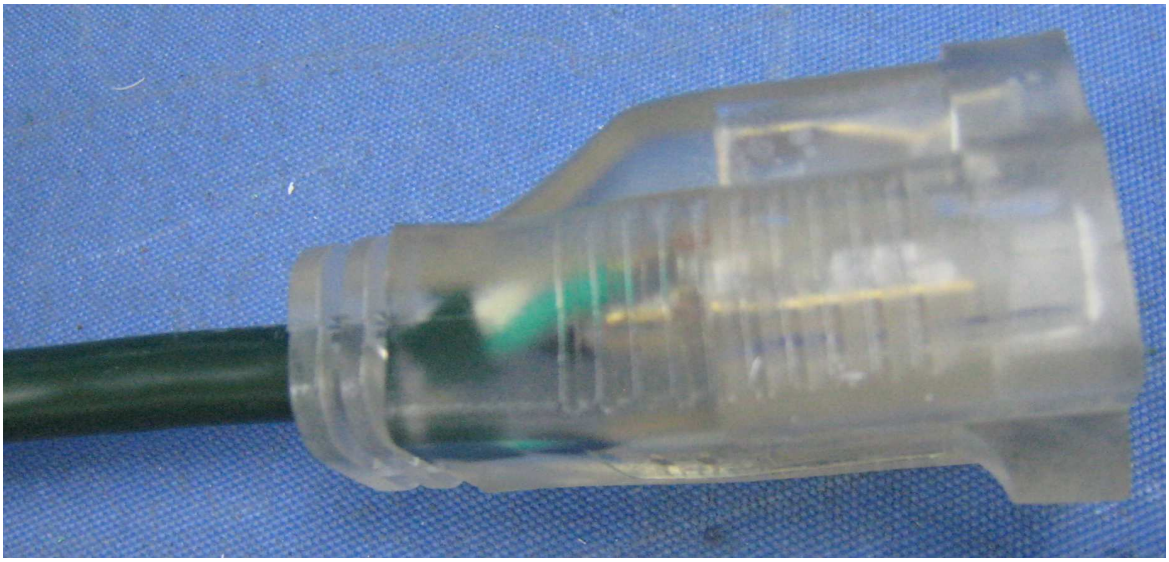
Photo 17 - Insert view of cord connector KT101



3.0 Product Photographs

Photo 18 - Overall view of cord connector KT101 (with alternative insert)

Photo 19 - Overall view of cord connector KT101 (with alternative insert)



3.0 Product Photographs

Photo 20 - Overall view of cord connector KT101 (with alternative insert)

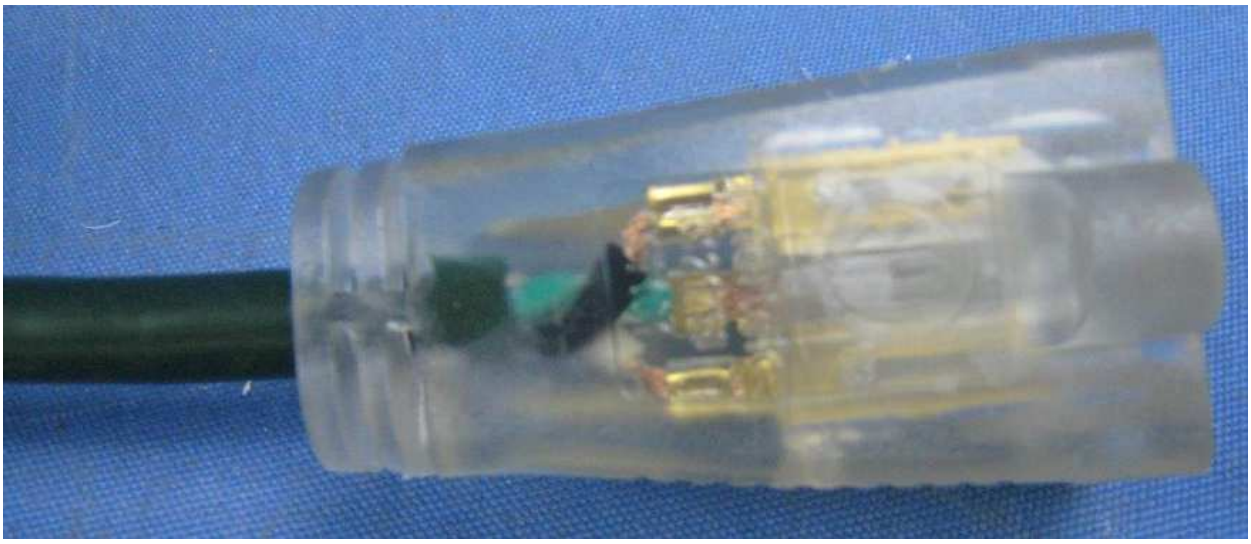


Photo 21 - Overall view of cord connector KT101 (with alternative insert)

3.0 Product Photographs

Photo 22 -Alternative insert for cord connector KT101

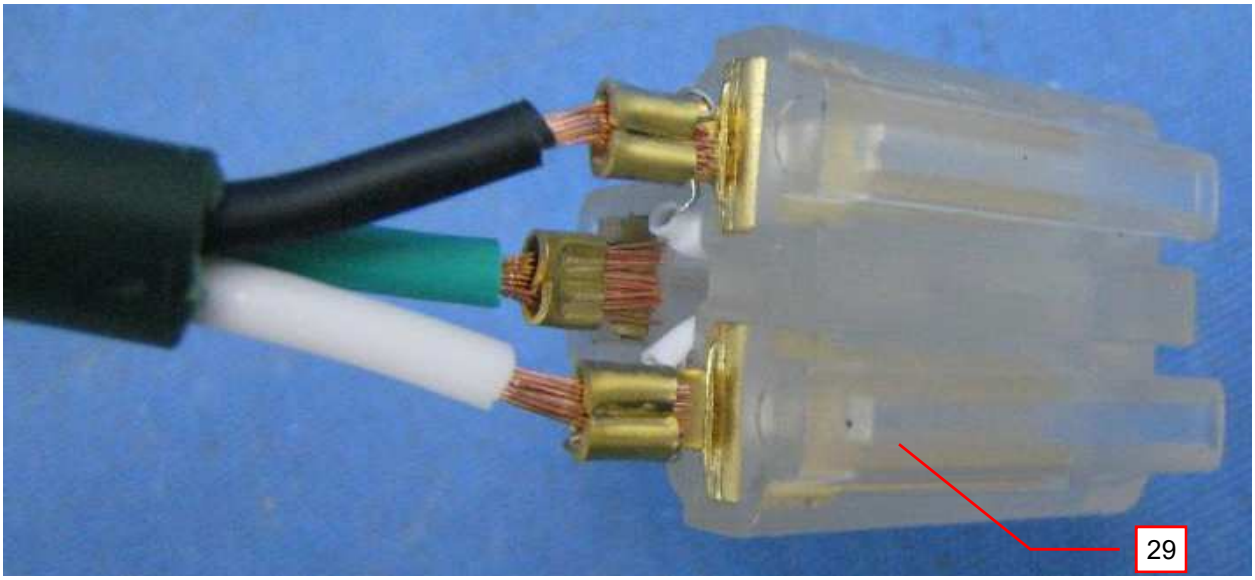
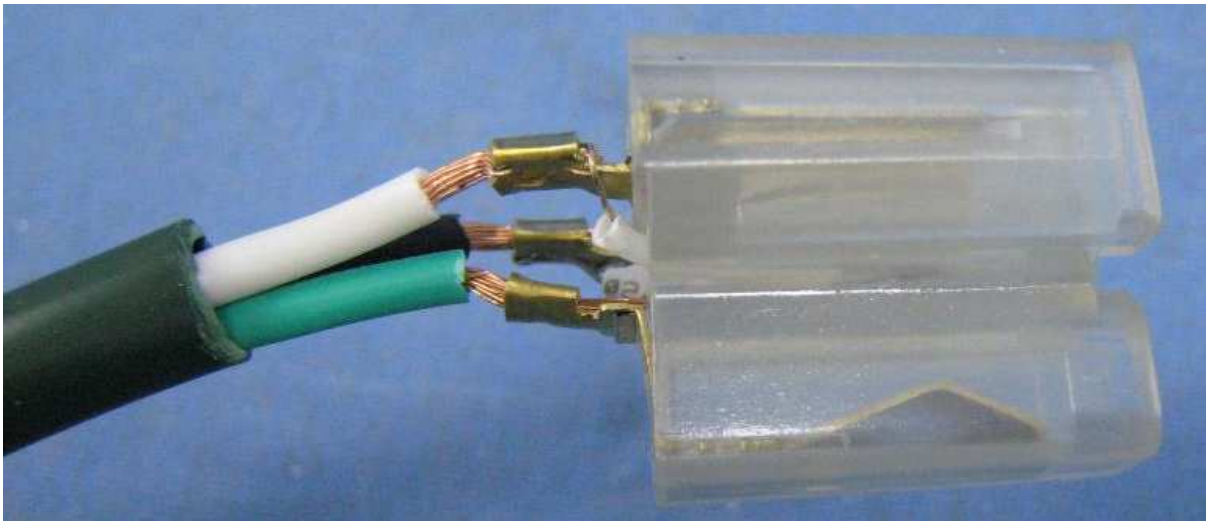


Photo 23 -Alternative insert for cord connector KT101



3.0 Product Photographs

Photo 24 -Alternative insert for cord connector KT101

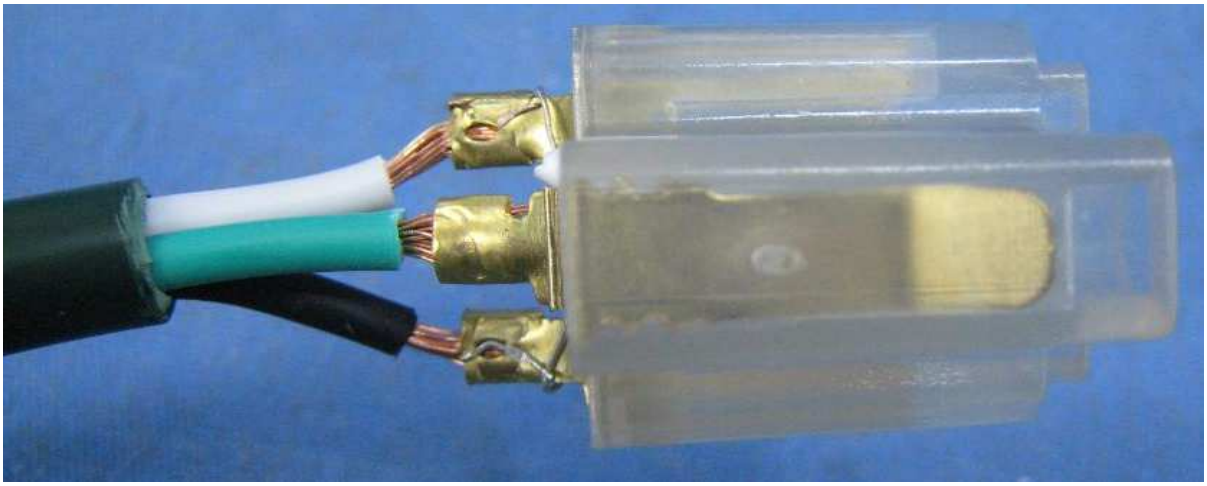
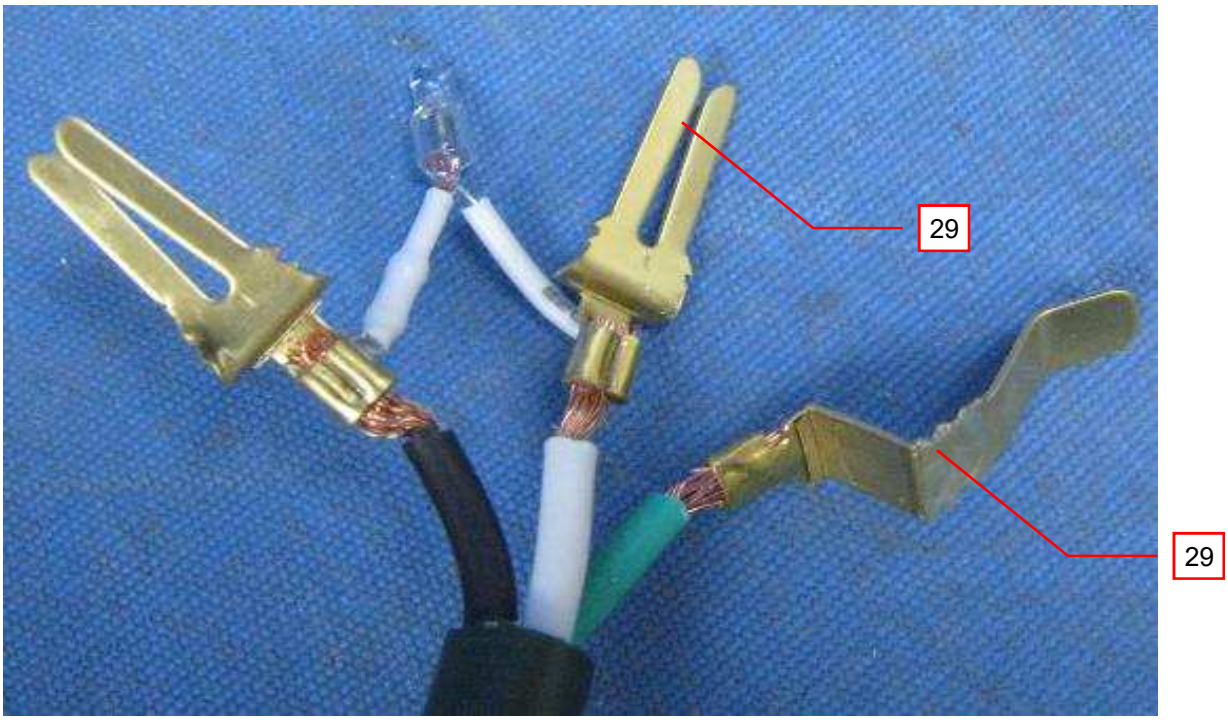


Photo 25 -Alternative insert for cord connector KT101



4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
1	1	Cord connector	various	various	Single way 5-15R receptacle, with cord SJT 16-14AWGX3C, 300V min 60°C	cULus cETLus
1	2	Cord	various	SJT	16-14AWGX3C, 300V min 60°C	cULus cETLus
2	3	Enclosure	KINGFA SCI & TECH CO LTD	VSLOY-PM	PVC material, minimum thickness 2.0mm, flame class V-0 5VA, HWI 1, HAI 0, RTI 95°C, CTI 0	cURus
3	4	Line and neutral blade	various	H62	Copper alloy, solid configuration, nominal thickness 1.4mm	NR
3	5	Grounding pin	various	H62	Copper alloy, tubular configuration,minimum thickness 0.7mm	NR
4	6	Line and neutral contact	various	H62	Copper alloy, minimum thickness 1.45mm	NR
4	7	Grounding contact	various	H62	Copper alloy, minimum thickness 0.7mm	NR
6	8	Enclosure	WOFOO (NINGBO) PLASTICS INDUSTRIAL CO LTD	CS-8811	Molded from PVC, NEMA 5-15R configuration, minimum thickness 3 mm, flame class V-0, HWI 0, HAI 0, CTI 0, RTI 50°Cdimensions.	cURus
6	9	Cord	various	SJT SJTW	16-12AWGX3C, 300V min 60°C	cULus cETLus
6	10	Attachment plug with cord	various	various	5-15P plug with cord SJT or SJTW 16-12AWGX3C, 300V min 60°C	cULus cETLus
8	11	Receptacle cover	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	2320	PC material, minimum thickness 1.2mm, flame class V-0, HWI 3, HAI 1, CTI 2, RTI 80°C	cURus
8	12	Receptacle body	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	2320	PC material, minimum thickness 1.2mm, flame class V-0, HWI 3, HAI 1, CTI 2, RTI 80°C	cURus
8	13	Intergral type strain relief	WOFOO (NINGBO) PLASTICS INDUSTRIAL CO LTD	CS-8811	Molded from PVC, NEMA 5-15R configuration, minimum thickness 3 mm, flame class V-0, HWI 0, HAI 0, CTI 0, RTI 50°Cdimensions.	cURus
9	14	Grounding contact	various	H62	minimum thickness 0.4mm, connect with internal wire by welding method	NR
9	15	Line and neutral contact	various	H62	minimum thickness 0.7mm, connect with internal wire by welding method	NR
10	16	Cord connector	Hangzhou Kaite Electrical Appliance Co.,Ltd.	KT-101A	Single way 5-15R receptacle, with cord SJT 16-14AWGX3C, 300V min 60°C	cETLus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
10	17	Cord	various	SJT	16-14AWGX3C, 300V min 60°C	cULus cETLus
10	18	Enclosure	KINGFA SCI & TECH CO LTD	FW-620T FW-620HT	ABS material, minimum thickness 1.2mm, flame class V-1, HWI 2, HAI 0, CTI 0, RTI 80°C	cURus
10	19	Line and neutral blade	various	H62	Copper alloy, solid configuration, nominal thickness 1.4mm	NR
10	20	Grounding pin	various	H62	Copper alloy, tubular configuration,minimum thickness 0.7mm	NR
12	21	Line and neutral contact	various	H62	Copper alloy, minimum thickness 1.45mm	NR
12	22	Grounding contact	various	H62	Copper alloy, minimum thickness 0.7mm	NR
13	23	Enclosure	KINGFA SCI & TECH CO LTD	FW-620T FW-620HT	ABS material, minimum thickness 1.2mm, flame class V-1, HWI 2, HAI 0, CTI 0, RTI 80°C	cURus
14	24	Line and neutral contact	various	H62	Copper alloy, minimum thickness 0.4mm	NR
14	25	Grounding contact	various	H62	Copper alloy, minimum thickness 0.4mm	NR
15	26	Attachment plug with cord	various	various	5-15P plug with cord SJT or SJTW 16-12AWGX3C, 300V min 60°C	cULus cETLus
15	27	Cord	various	SJT SJTW	16-12AWGX3C, 300V min 60°C	cULus cETLus
15, 18	28	Enclosure	Wofoo (Ningbo) Plastic Industrial Co Ltd	CS-#--X	PVC, flame class V-0, HWI 0 , HAI 0, RTI 50℃, CTI 0	cURus
16, 22	29	Insert	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	2330	PC, minimum thickness 0.8mm, flame class V-0, HWI 2, HAI 1, RTI 80℃, CTI2	cURus
17	30	Line and neutral contact	various	H62	Copper alloy, minimum thickness 0.4mm	NR
17	31	Grounding contact	various	H62	Copper alloy, minimum thickness 0.35mm	NR
25	32	Line and neutral contact	various	H62	Copper alloy, minimum thickness 0.6mm	NR
25	33	Grounding contact	various	H62	Copper alloy, minimum thickness 0.5mm	NR

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.2mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 1.2mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in crimp connections. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets.
8. Schematics -N/A (No schematics)
9. Markings - See illustration no 1 to 2 for details.
10. Cautionary Markings - See illustration no 1 to 3 for details.
11. Installation, Operating and Safety Instructions - No instructions for installation and use of this product are provided by the manufacturer.
12. Installation, Operating and Safety Instructions - N/A

7.0 Illustrations

Illustration 1: Marking

Model: 40106 SJT 16AWGX3C 13A 125VAC 1625W 60Hz KAITE Date Code:20YY/MM/DD Made In China	 Intertek 3121738 CONFORMS TO UL STD.817 CERTIFIED TO CSA STD.C22.2#21

Note:
1. Cord information "SJT 16AWGX3C" will be marked on outer of the cord.
2. For 40106, there will be with many version due to different cord gauge and electric rate, see section 2 for details.
3. For type 40314,40106A,KT101, all marking is the same as above, only different type designation
4 Date code 20YY/MM/DD only as an example for reference, there can be with other date code identify means for final mass product;
5 There can be with alternative trade mark "KMC"
6 There can be with alternative control no 5003846 for manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd.", it with same marking as above except different control no;
7 There can be with alternative control no 5013210 for manufacturer 3 "Kingtec (vietnam) technologies Co.,ltd", it with same marking information as above, except with coutry original information change to be "Made In Vietnma" and different control no;
8 For multiple listee 1 "Zhejiang Focus-On Import & Export Co.,Ltd." with multiple listee type 370-0220 which corresponding to basic listee type KT101. All marking is the same as above, only different multiple listee type designation and different multiple listee trade mark as "Ultra Performance", see section 9 for details

When with cord SJTW for outdoor purpose, product shall be marked with below caution by tag or moulded on body

CAUTION:
Suitable for use with outdoor appliances- store indoors while not in use
ATTENTION:
CONVIENT POUR UTILISATION AVEC APPAREILS DE PLEIN AIR A L'INTERIEUR TOUT EN MAGASIN NO EN SERUICE

7.0 Illustrations

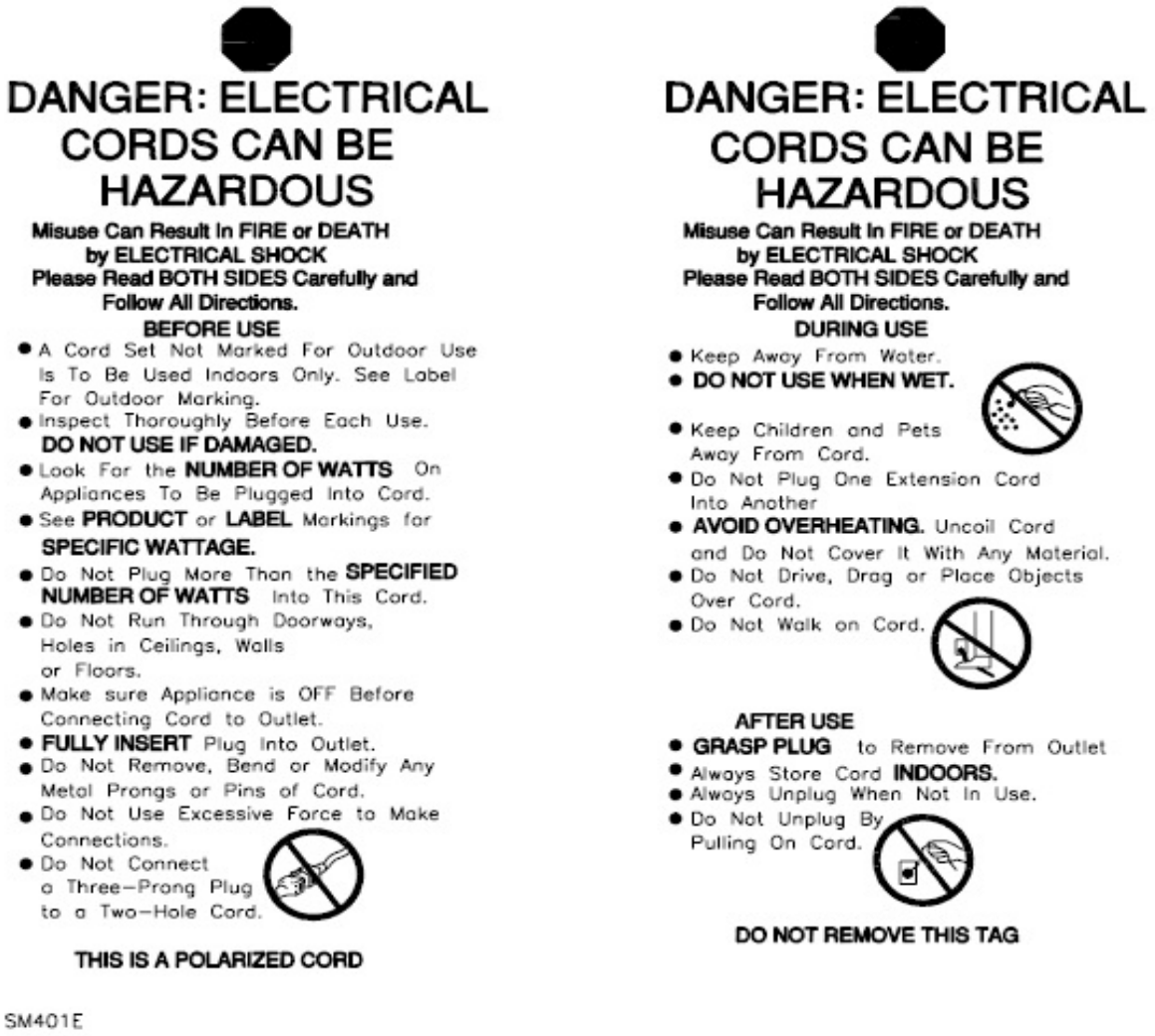
Illustration 2 - Marking

Model: KT101A SJT 16AWGX3C 13A 125VAC KAITE Date Code:20YY/MM/DD MADE IN CHINA	 Intertek 3121738 CONFORMS TO UL STD.817 CERTIFIED TO CSA STD.C22.2#21

Note:
1. Cord information input "SJT 16AWGX3C" will be marked on outer of the cord.
2. For KT101A, there may be with many versions due to different cord gauge, electrical rate, see section 2 for details
3 Date code 20YY/MM/DD only as an example for reference, there can be with other date code identify means for final mass product;
4 There can be with alternative trade mark "KMC"
5 There can be with alternative control no 5003846 for manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd.", it with same marking as above except different control no;
6 There can be with alternative control no 5013210 for manufacturer 3 "Kingtec (vietnam) technologies Co.,ltd", it with same marking information as above, except with coutry original information change to be "Made In Vietnma" and different control no;

7.0 Illustrations

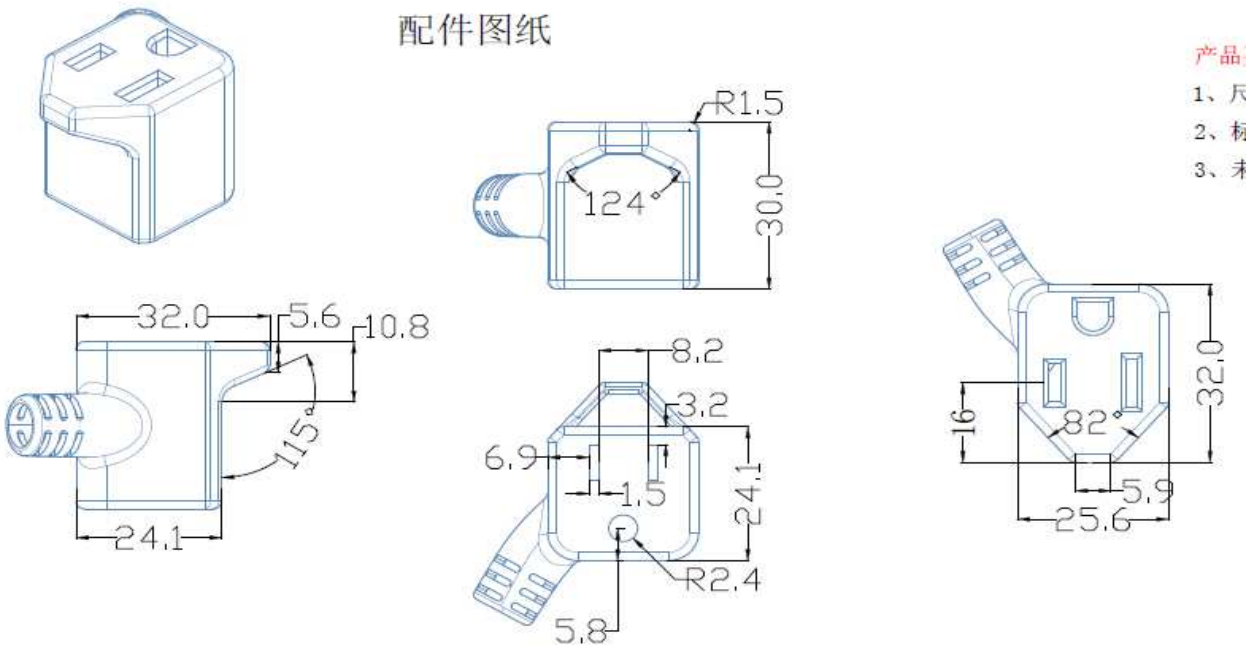
Illustration 3 - Marking tag. (for cord set only)



1. "DANGER ELECTRICAL CORDS CAN BE HAZARDOUS" are a minimum of 9/16inch(3.6mm) high,and the remain words are a minimum of 1/16inch (1.6mm) high.
2. The tag shall be located within 18 inches (46cm) of the point where the cord enters the body of the attachment plug. The marking itself shall be indelible.
3. The lettering and illustrations are black with a solid white background
4. The marking are preceded by a solid red octagon, oriented so as to resemble a "stop" sign, a minimum of 5/16 inch (7.9mm) across.
5. The required illustrations are located within red circle a mnimum of 7/16 inch (11.1mm) in diameter across by a red digonal line
6. All letters shown as capitals, in boldface.

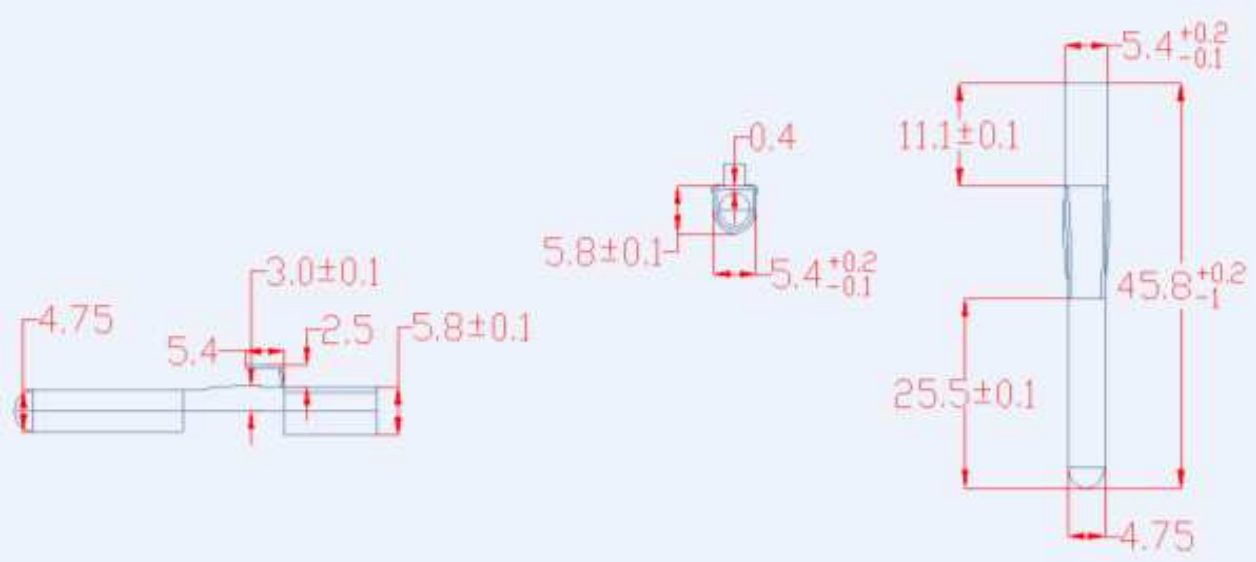
7.0 Illustrations

Illustration 4 - Engineering dimension drawing for 40106 (unit:mm)

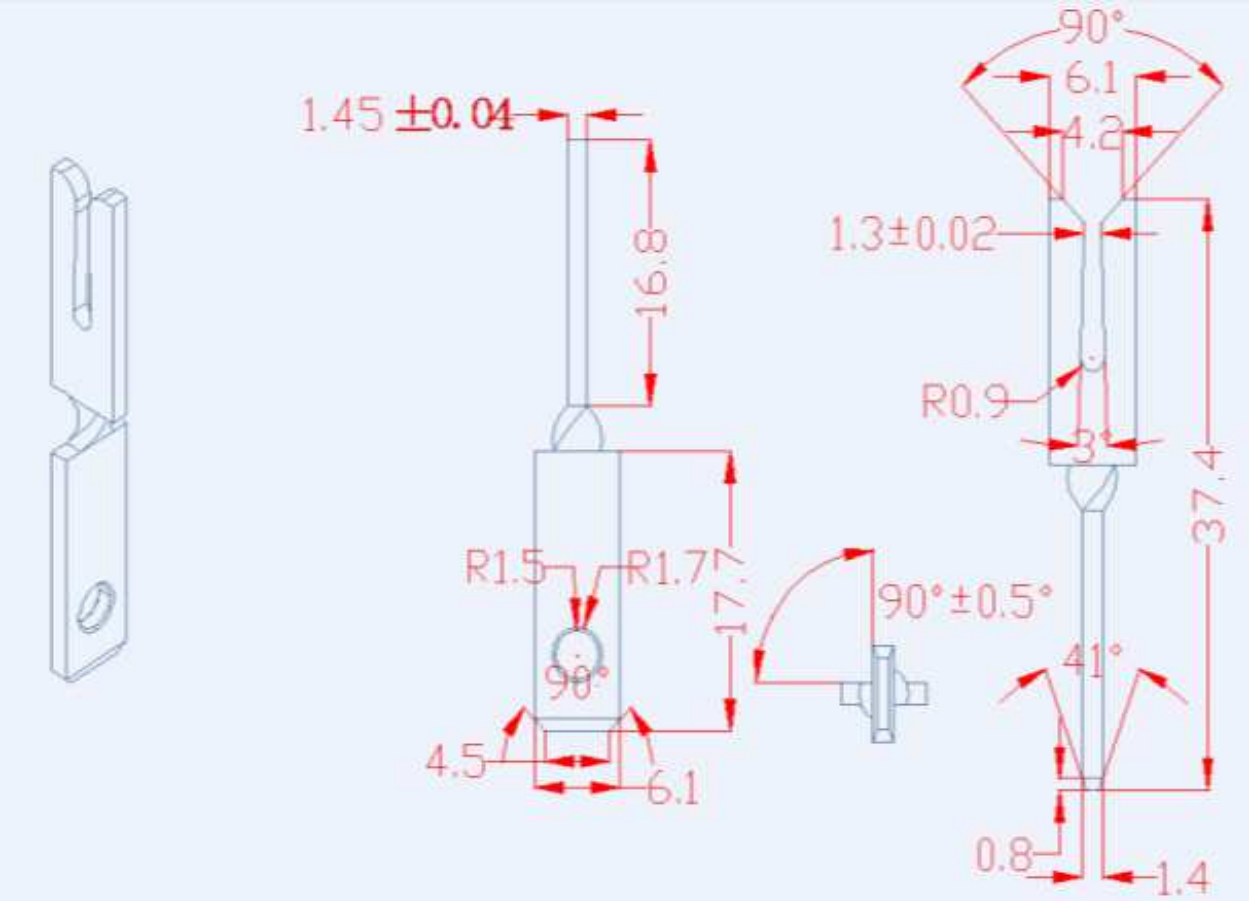


7.0 Illustrations

Illustration 5 - Engineering dimension drawing for blade,pin and contact for type 40106 (unit:mm)



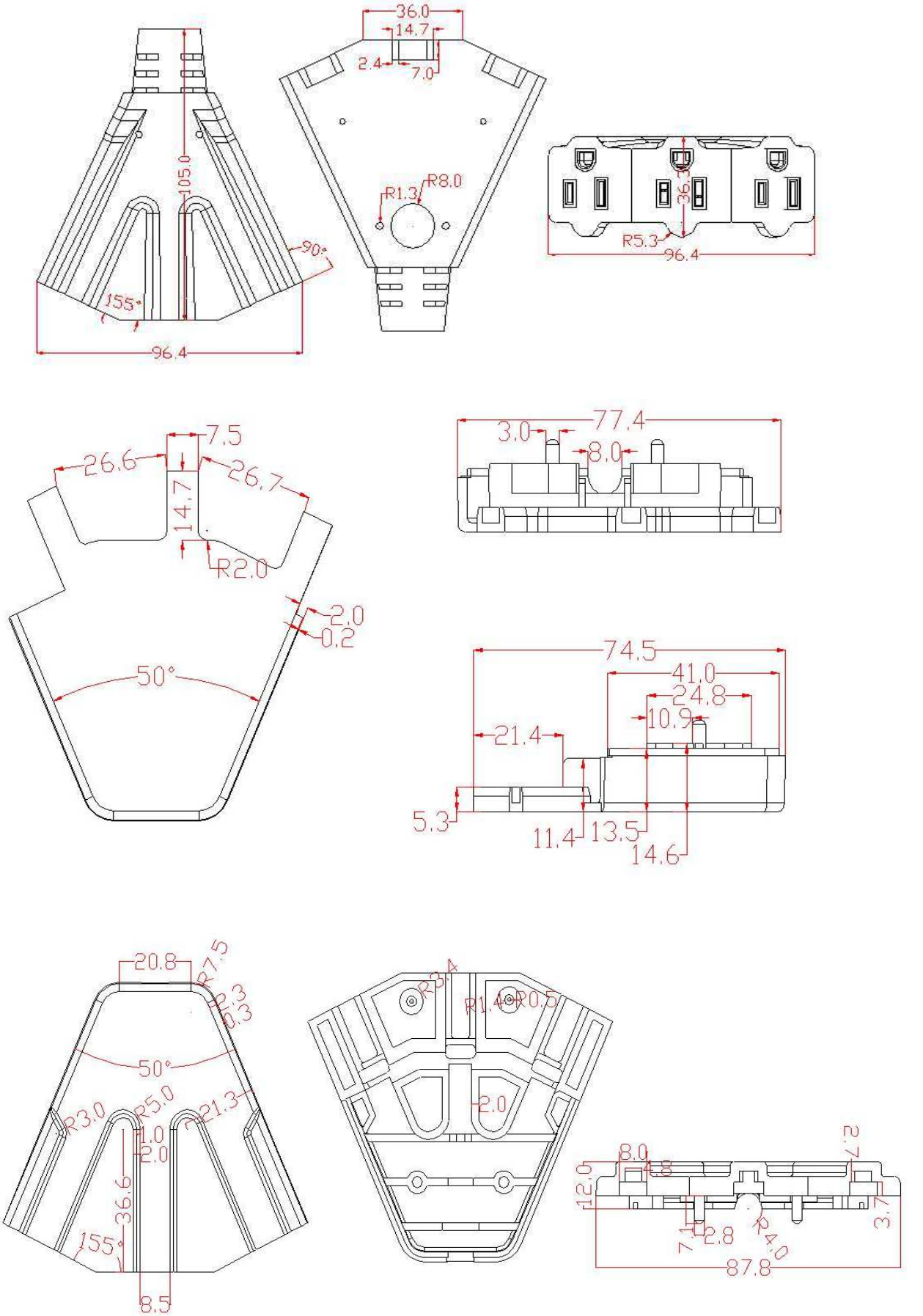
Grounding pin and contact



Line and neutral blade and contact

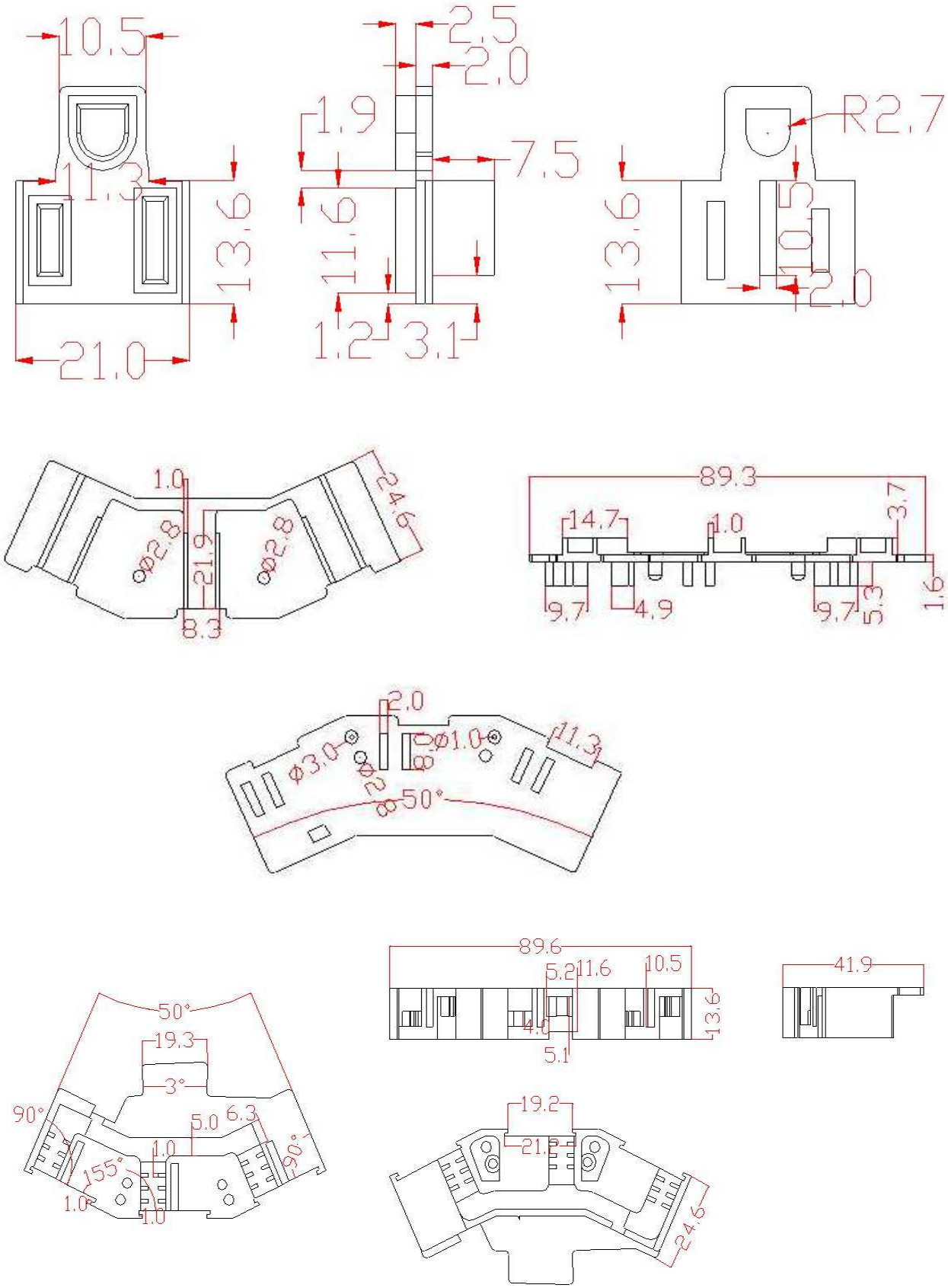
7.0 Illustrations

Illustration 6 - Engineering dimension drawing for 40314 (unit:mm)



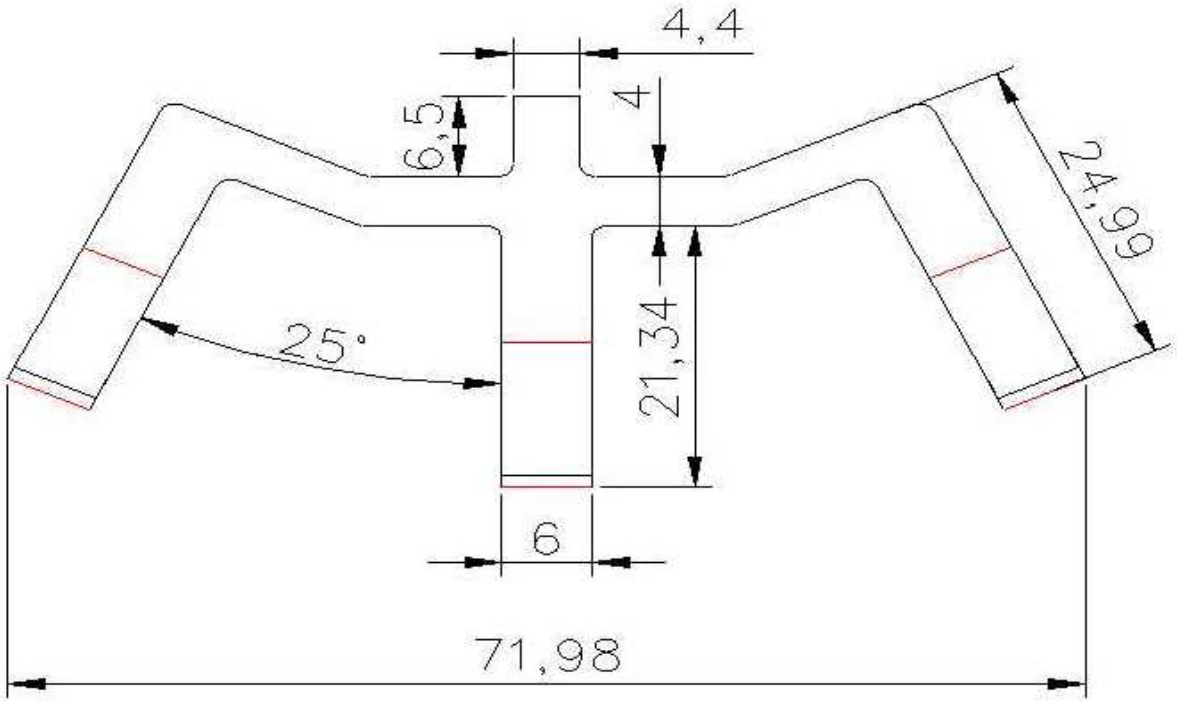
7.0 Illustrations

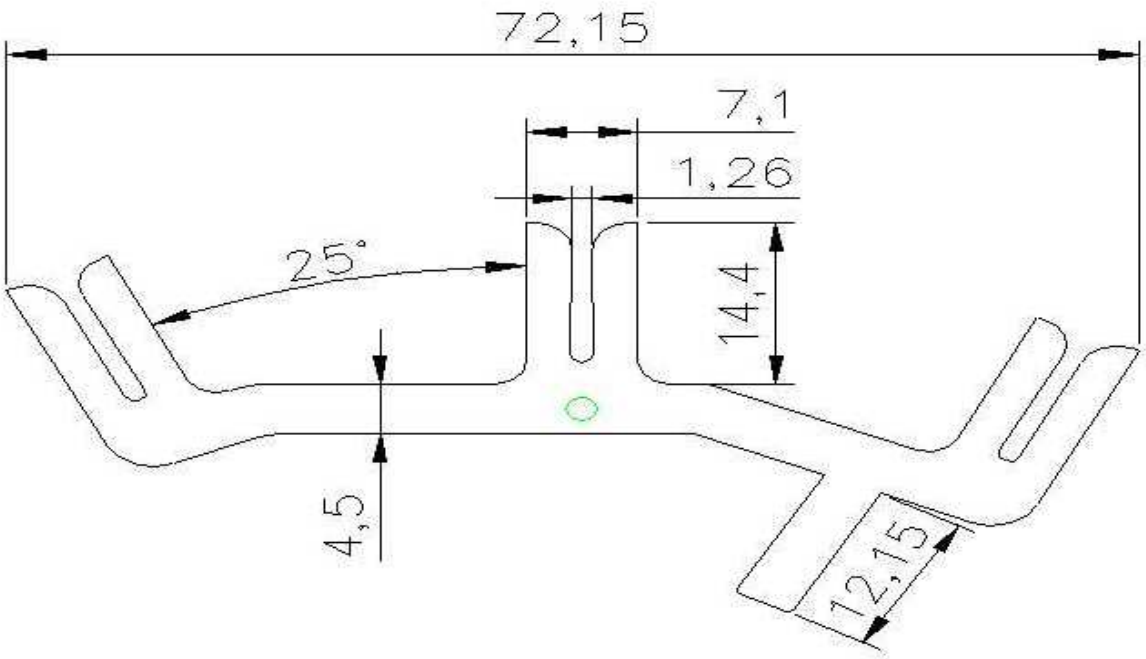
Illustration 7 - Engineering dimension drawing for 40314 (unit:mm)



7.0 Illustrations

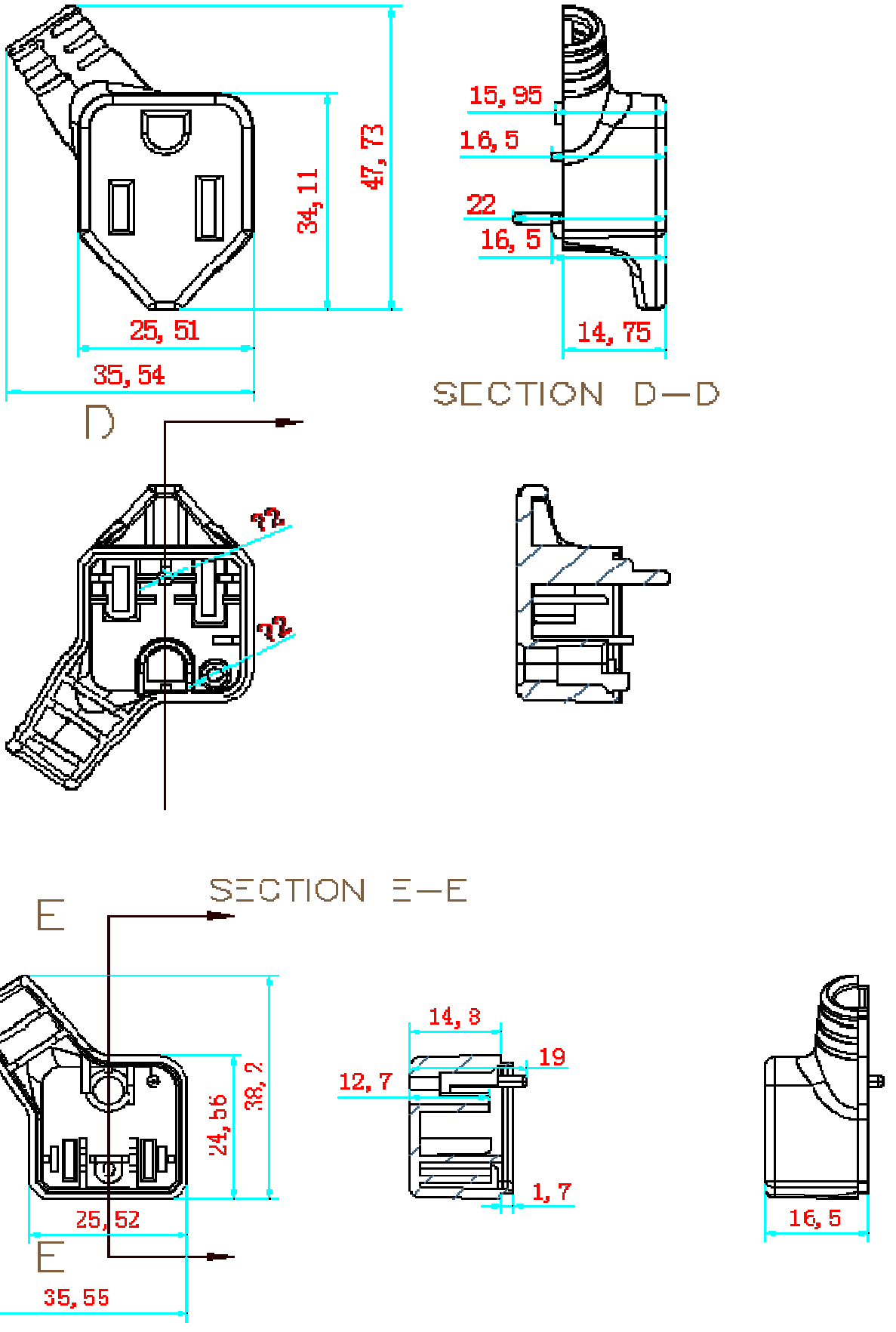
Illustration 8 - Engineering dimension drawing for 40314 (unit:mm)





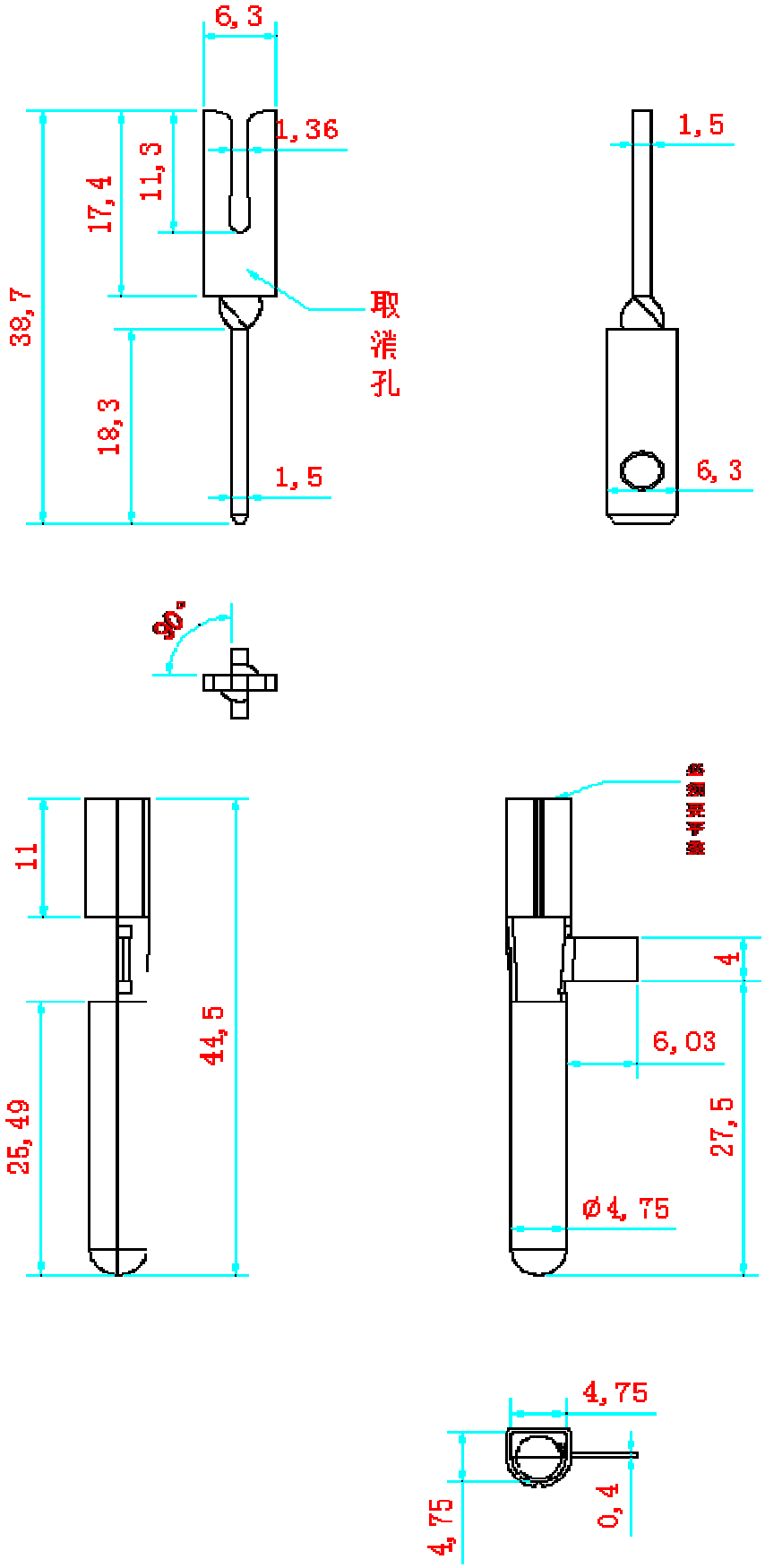
7.0 Illustrations

Illustration 9 - Engineering dimension drawing for outer enclosure for current tap part for 40106A(unit:mm)



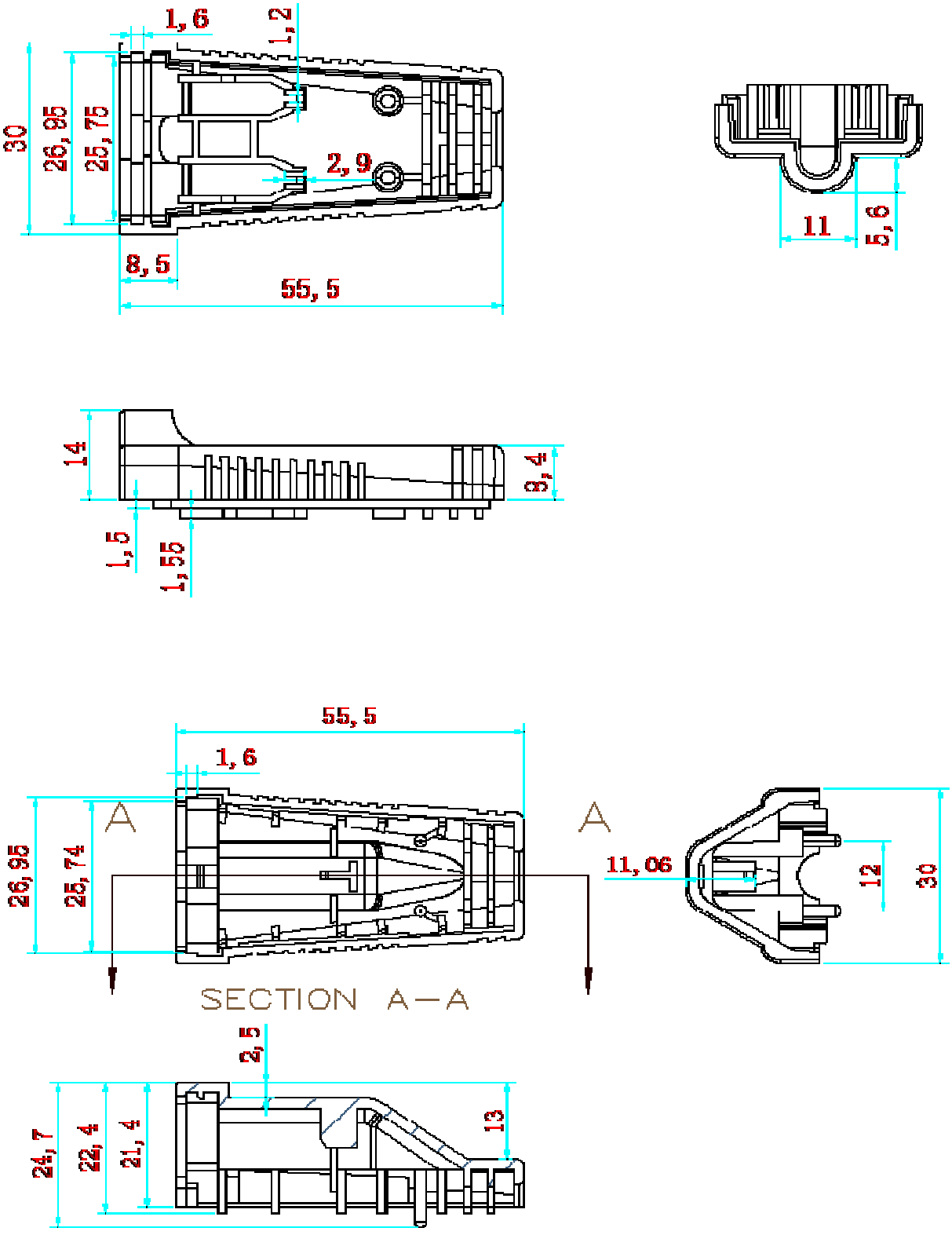
7.0 Illustrations

Illustration 10 - Engineering dimension drawing for blade,pin and contact for current tap for 40106A (unit:mm)



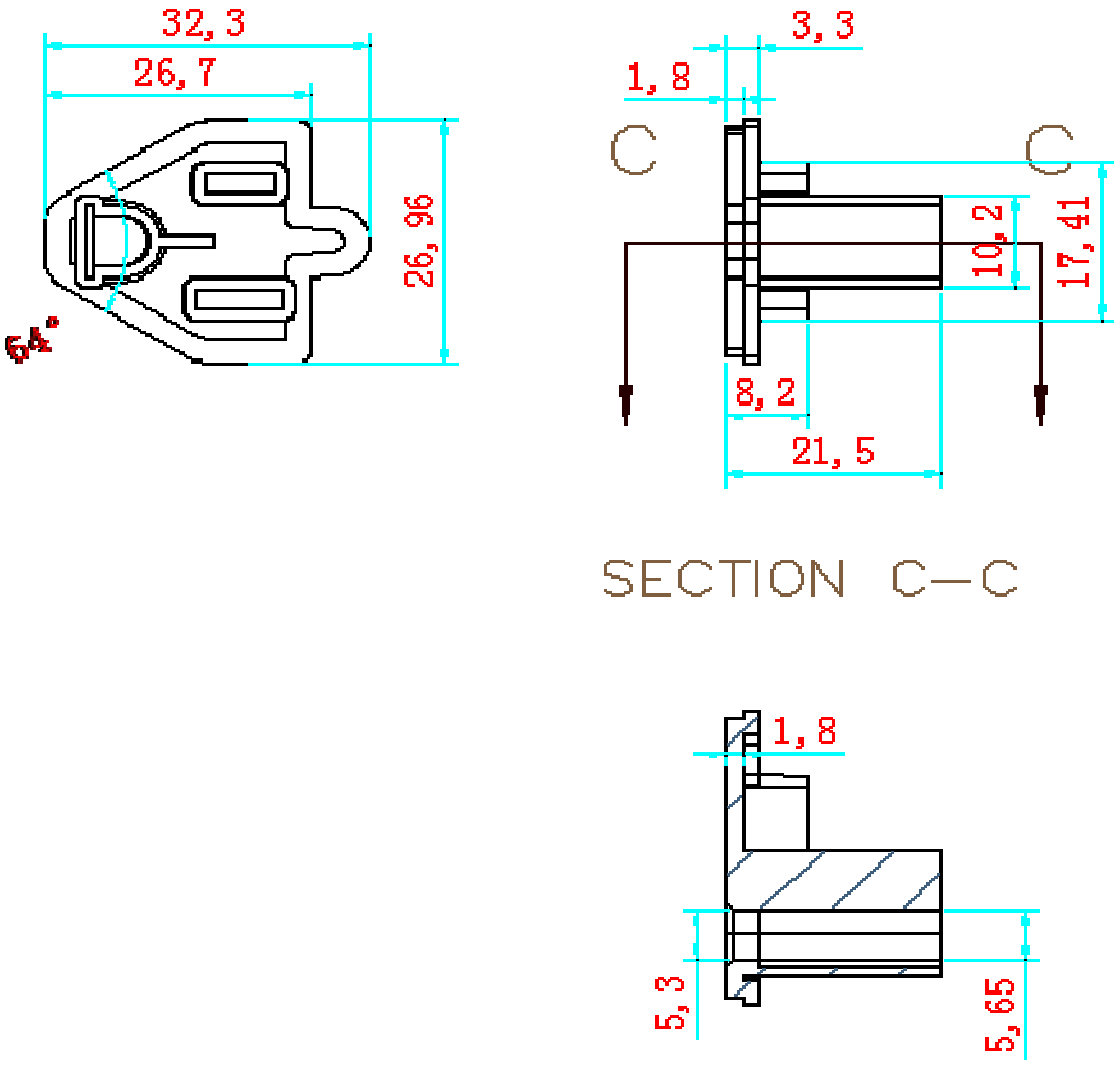
7.0 Illustrations

Illustration 11 - Engineering dimension drawing for outer enclosure for cord connector KT101A (unit:mm)



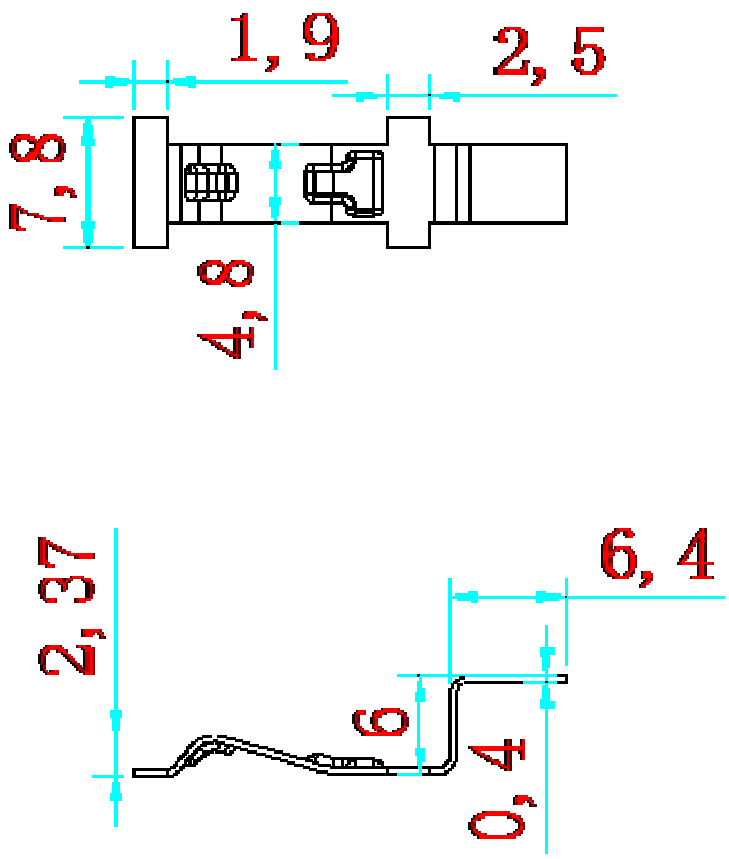
7.0 Illustrations

Illustration 12 - Engineering dimension drawing for insert part for cord connector KT101A (unit:mm)



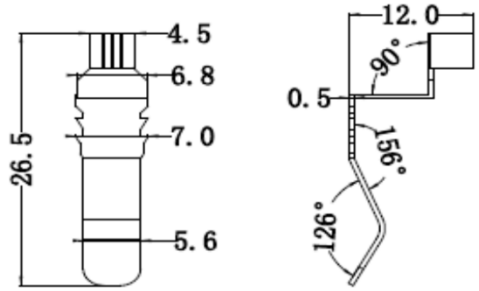
7.0 Illustrations

Illustration 13 - Engineering dimension drawing for contact part for cord connector KT101A (unit:mm)

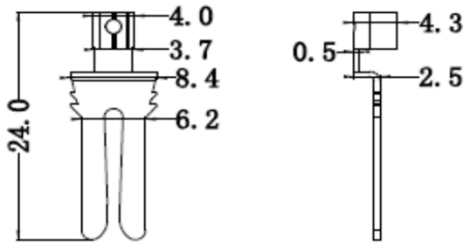


7.0 Illustrations

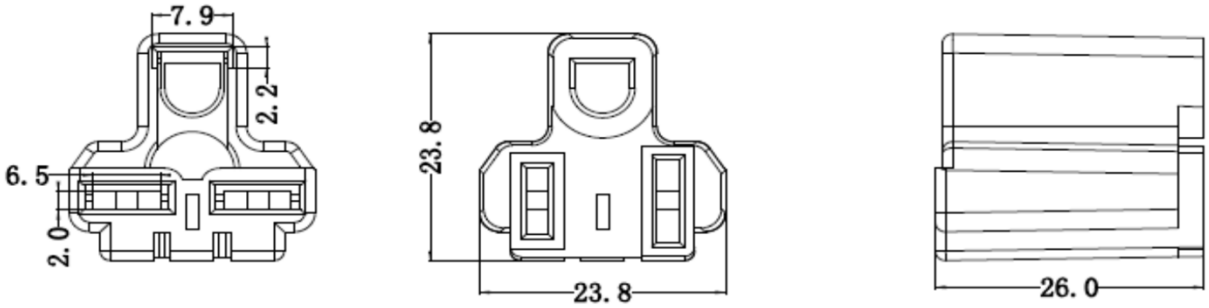
Illustration 14 - Engineering dimension drawing for alternative insert for KT101 (unit:mm)



KT-101左右插片



KT-101接地插片



KT-101内架

8.0 Test Summary					
Evaluation Period	2015-06-01~2015-07-22			Project No.	150701611SHA
Sample Rec. Date	1-Jun-2015	Condition	Prototype	Sample ID.	0150601
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					

Test Description	ANSI/UL817-2015, Twelfth Edition, Dated: March 11:2015 Clause	CSA C22.2 No 21-14, Dated: February 2014 Clause	
Conductor Secureness Test	11.1	7.1.1	
Security of blade test	12.1	7.2.1	
Strain Relieft Test	11.3	7.1.3	
Dielectric Voltage Withstand Test	11.4	7.1.4	
Insulation Resistance Test	11.5	7.1.5	
Accelerated Aging Tests	11.6	7.1.6	
Jacket retention test	11.10	-	
Adhesion test	11.11	7.1.11	
Cycling heat test	11.12	7.1.12	
Blade Pull Test at Elevated Temperature	12.4	7.2.4	
Abrupt pull	12.5	7.2.5	
Jacket Retention Test	11.1	7.1.10	
Depth of cavity test	14.1	7.4.1	
Conditioning cycles for blade retention test	14.2	7.4.2	
Retention of blade test	14.3	7.4.3	
Overload test	14.4	7.4.4	
Temperature test	14.5	7.4.5	
Retention of blade test (repeated)	14.6	7.4.6	
Resistance to arcing test	14.7	7.4.7	
Improper insertion test	14.8	7.4.8	
Lower temperature insertion test	14.9	7.4.9	
Random drop test	14.1	-	
Performance of warning tag test	16	7.9	

Test Description	ANSI/UL498-2014,15th edition, Dated March 30,2012; Rev: October 22,2014 Clause	ANSI/UL498A-2014, Second edition, Dated: January 23, 2008; Rev: May 23, 2014 Clause	CSA C22.2 No 42-10, Dated: November 2010; Update No.1:November 2013 (R2015) Clause
Secureness of cover test	71	-	-
Retention of Plug Test	91	-	8.7
Overload Test	92	-	8.8
Temperature Test (after overload)	93	-	8.9
Retention of plug test (repeated)	94	-	8.10
Resistance to Arcing	95	-	8.17
Contact Security Test	-	28	-

Evaluation Period	2016-05-20 ~ 2016-05-30			Project No.	160502450SHA
Sample Rec. Date	N/A	Condition	Prototype	Sample ID.	N/A
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
All is the same as before, only update standard to be latest version, add alterative manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd" and some other administrative update, after review, no additional test required.					

8.0 Test Summary

Test Description			UL817, Twelfth Edition, Dated: March 11:2015 ,Rev: March 9,2016 Clause	CSA C22.2 No 21-14, Dated: February 2014; Amendment No 1: January 2015 Clause	
Test Description			UL498,15th edition, Dated March 30,2012; Rev: October 22,2014 Clause	UL498A, Second edition, Dated: January 23, 2008; Rev: May 23, 2014 Clause	
Evaluation Period	2016-06-01 ~ 2016-06-27			Project No.	160601561SHA
Sample Rec. Date	1-Jun-2016	Condition	Prototype	Sample ID.	0160601
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

All is the same as before, only add cord gauge 12AWGX3C for type 40314, after review, below test conducted for 40314 which with SJTW 12AWGX3C.

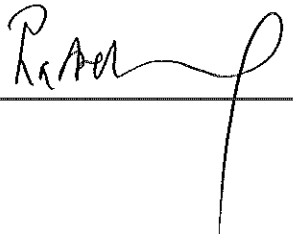
Test Description			UL817, Twelfth Edition, Dated: March 11:2015 ,Rev: March 9,2016 Clause	CSA C22.2 No 21-14, Dated: February 2014; Amendment No 1: January 2015 Clause	
Conductor Secureness Test			11.1	7.1.1	
Strain Relieft Test			11.3	7.1.3	
Jacket retention test			11.10	-	
Adhesion test			11.11	7.1.11	
Evaluation Period	2016-07-11~2016-08-15			Project No.	160800662SHA
Sample Rec. Date	11-Jul-2016	Condition	Prototype	Sample ID.	0160711
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed for new added type 40106A,KT101,KT101A

Test Description	UL817, Twelfth Edition, Dated: March 11:2015 ,Rev: March 9,2016 Clause	CSA C22.2 No 21-14, Dated: February 2014; Amendment No 1: January 2015 Clause	
Conductor Secureness Test	11.1	7.1.1	
Security of blade test	12.1	7.2.1	
Strain Relieft Test	11.3	7.1.3	
Dielectric Voltage Withstand Test	11.4	7.1.4	
Insulation Resistance Test	11.5	7.1.5	
Accelerated Aging Tests	11.6	7.1.6	
Jacket retention test	11.10	7.1.10	
Adhesion test	11.11	7.1.11	
Cycling heat test	11.12	7.1.12	

8.0 Test Summary				
Blade Pull Test at Elevated Temperature		12.4	7.2.4	
Abrupt pull		12.5	7.2.5	
Depth of cavity test		14.1	7.4.1	
Conditioning cycles for blade retention test		14.2	7.4.2	
Retention of blade test		14.3	7.4.3	
Overload test		14.4	7.4.4	
Temperature test		14.5	7.4.5	
Retention of blade test (repeated)		14.6	7.4.6	
Resistance to arcing test		14.7	7.4.7	
Improper insertion test		14.8	7.4.8	
Lower temperature insertion test		14.9	7.4.9	
Random drop test		14.10	-	
Performance of warning tag test		16	7.9	
Test Description		UL498,15th edition, Dated March 30,2012; Rev: October 22,2014 Clause	UL498A, Second edition, Dated: January 23, 2008; Rev: September 28, 2015 Clause	CSA C22.2 No 42-10, Dated: November 2010; Update No.1:November 2013 (R2015) Clause
Secureness of cover test		71	-	-
Retention of Plug Test		91	-	8.7
Overload Test		92	-	8.8
Temperature Test (after overload)		93	-	8.9
Retention of plug test (repeated)		94	-	8.10
Resistance to Arcing		95	-	8.17
Contact Security Test		-	28	-
Evaluation Period	2018-09-13~2018-10-15		Project No.	180901928SHA
Sample Rec. Date	13-Sep-2018	Condition: Prototype	Sample ID.	0180913
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China			
Test Procedure	Testing Lab			
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.				
All is the same as before, only add alternative insert construction for KT101, after review, below test for KT101 which with new added alternative insert construction				
Test Description		UL 817:2015 Ed.12+R:05May2017 Clause	CSA C22.2#21:2014 Ed.9+A1 Clause	
Conditioning cycles for blade retention test		14.2	7.4.2	
Retention of blade test		14.3	7.4.3	
Overload test		14.4	7.4.4	
Temperature test		14.5	7.4.5	
Retention of blade test (repeated)		14.6	7.4.6	
Resistance to arcing test		14.7	7.4.7	
Improper insertion test		14.8	7.4.8	
Lower temperature insertion test		14.9	7.4.9	
Evaluation Period	2019-03-05~2019-03-08		Project No.	190300337SHA
Sample Rec. Date	NA	Condition: Prototype	Sample ID.	NA
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China			
Test Procedure	Testing Lab			
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.				
All is the same as before, only add manufacturer 3 "Kingtec (vietnam) technologies Co.,ltd" and multiple listee 1 "Zhejiang Focus-On Import & Export Co.,Ltd.", after review, no additional test required.				

8.0 Test Summary			
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Da Deng	Reviewed by:	Rachel Wang
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings	
The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.	
BASIC LISTEE	HANGZHOU KAITE ELECTRICAL APPLIANCE CO.,LTD.
Address	SANDU INDUSTRIAL ZONE, JIANDE CITY, ZHEJIANG PROVINCE 311605
Country	China
Product	General Use Cord Set and Cord Connector

MULTIPLE LISTEE 1	Zhejiang Focus-On Import & Export Co.,Ltd.
Address	11F Binhai Building, 480 Jiangnan Dadao, Binjiang District, Hangzhou 310052
Country	China
Brand Name	Ultra Performance
ASSOCIATED MANUFACTURER	HANGZHOU KAITE ELECTRICAL APPLIANCE CO.,LTD.
Address	SANDU INDUSTRIAL ZONE, JIANDE CITY, ZHEJIANG PROVINCE 311605
Country	China

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
370-0220	KT101

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
3) a control number issue by Intertek
4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, “Conforms to” shall appear with the standard number along with the word, “Standard” or “Std.” Example: “Conforms to ANSI/UL Std. XX.”

For Canadian standards, the words “Certified to CAN/CSA Standard CXX No. XX.” shall be used, or abbreviated, “Cert. to CAN/CSA Std. CXX No. XX.”

Can be used together when both standards are used.

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:
Intertek Testing Services Shanghai
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Angela Han
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required 100% Production Tests

Dielectric Voltage Withstand Test, Polarization and Grounding Continuity Test

Quarterly, the Field Representative shall randomly select samples to test at manufacturer's facility. Samples shall be selected in a manner which will insure all cord types are tested at least annually. If testing takes longer than one day, re-visit shall be arranged to verify the test result.

Required Quarterly Tests

Insulation Resistance Test, Recess of Contacts Test, Depth of Cavity Test, Conductor Secureness Test, Security of Blade or Pin Test, Security of Insulation Test, Strain Relief Test, Abrupt Pull Test and Jacket Retention Test.

Procedure in the Event of Nonconformance

a. Another a set of samples are selected from the next production lot.
b. If the manufacturer decides to resubmit the sample after corrective actions, twice number of the samples should be selected from the corrected lot and tested.
c. In either case if additional nonconformance result occurs, contact the reviewing office immediately. Use of Listing mark may be suspended pending investigation by Intertek and the manufacturer.
d. If retesting is required at manufacturer's premises, the revisit shall be at manufacturer's expenses. This revisit does not count as quarterly visit.

Records

The following information shall be recorded and maintained by the manufacturer. This information shall also be recorded and submitted to the Field Representative with the samples being selected:

1. Cord type and model numbers
2. Number of samples tested
3. Test performed
4. Test results
5. Number of incompliance and the cause
6. Corrective and preventive actions

Required Annual Tests at Intertek

Overcurrect Protection Test

Required samples must be forwarded to:

Intertek Testing Services Shanghai Limited.
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms Angela Han

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between each line conductor and between each line conductor and grounding conductor. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:
1 - a voltmeter in the primary circuit;
2 - a selector switch marked to indicate the test potential; or
3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.
In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

Product	Test Voltage	Test Time
No product covered by this Report. (judgement by engineer)	1250 VAC	60 s
	or	
	1700 VDC	60 s
	or	
	1500 VAC	1 s
	or	
	2100 VDC	1 s

11.2 Polarization and Grounding Continuity Test

Method

One hundred percent of production of the products listed below shall be subjected to a test to determine that there is continuity between each conductor and the intended terminals of the fitting. Additionally if provided with contacts there is electrical continuity throughout the entire length of the conductor/contact assembly.

A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate continuity.

Products Requiring Polarization and Grounding Continuity Test:

All products covered by this Report.

11.3 Insulation Resistance Test - Quarterly

Method

Using a megaohm meter that has open circuit output of 500V. The measured resistance shall not be less than 100 megaohms between:

1. Live parts of opposite polarity
2. Live parts and accessible metal parts
3. Live parts and accessible insulating material (using 2.5 mm lead shot)

Products Requiring Insulation Resistance Test:

1. One sample from production lot per cord type per purpose (general use, out-door, oil, etc.).
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six cord types, different types should be selected in the next visit.

11.4 Recess of Contacts Test - Quarterly

Method

The female contacts of a 2-wire parallel –slot cord connector shall be recessed at least 1/4 inch (6.4mm) from the face of fitting.

Products Requiring Recess of Contacts Test:

1. One sample from production lot per cord type per connector configuration (molding and contact types).
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six combinations, different combinations should be selected in the next visit.

11.5 Depth of Cavity Test - Quarterly

Method

Gauge for checking contact slots:

Products Requiring Depth of Cavity Test:

1. One sample from production lot per cord type per connector configuration (molding and contact types).
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six combinations, different combinations should be selected in the next visit.

11.6 Conductor Secureness Test - Quarterly

Method

An unmolded attachment plug cap, cord connector body or current tap shall be subjected to a 1 minute pull gradually applied to the conductor while the blades, pins or contacts are held rigid. The force of the pull shall be based on the conductor size: 18 AWG or larger – 20 lbf (89N) or smaller than 18 AWG – 8 lbf (36N).

Products Requiring Conductor Secureness Test:

1. One sample from production lot per combination of AWG and contact/blade/pin.
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six AWG sizes, different AWGs should be selected in the next visit.

11.7 Security of Blade or Pin Test - Quarterly

Method

Attachment plug caps of 2-pole 2-wire and 3-wire construction are required to be tested with a 20 lbf (89N) downward pull for 2 minutes on each blade or pin. The products tested shall not have conductors attached.

If the attachment plug cap is rigid construction, no loosening is acceptable.
If the attachment plug cap is non-rigid construction, no more than 3/32 inches (2.4mm) displacement is acceptable.

Products Requiring Security of Blade or Pin Test:

1. One sample from production lot per plug configuration (molding and blade/pin combination).
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six combinations, different combinations should be selected in the next visit.

11.8 Security of Insulation Test - Quarterly

Method

For a parallel cord that has a nominal insulation thickness less than 0.060 in (1.52 mm)

1. Cord length 6-8 inches (152-203 mm)
2. Slit parallel to the conductor at about 1 inch (25.4 mm) from cord entry
3. All conductors are to be severed at the slit
4. A pull of 15 lbf (67N) for 2 minutes at the end of the cord
5. Detachment of the insulation from the fixture is not acceptable

Products Requiring Security of Insulation Test:

1. One sample from production lot per cord type per model.
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six cord types, different types should be selected in the next visit.

11.9 Strain Relief Test - Quarterly

Method

The fitting is to be securely supported by a rigid horizontal plate having a hole just large enough for the cord to pass through. 1 minute pull in a vertical direction using following weight:

1. General purpose fittings
   a) 18 AWG or larger – 30 lbf (133N)
   b) Smaller than 18 AWG – 20 lbf (89N)
   c) The leads cannot break or separate from the bodies

2. Flatiron and appliance plugs
   a) The conductors are severed near the terminals
   b) 35 lbf (156N) between the cord and the plug
   c) The end of cords cannot pulled away from the terminal cut
   d) Withstand a 3 lbf-in (0.34 N-m) torque for 1 minute (UL 817, Fig. 84.1)
   e) It is not acceptable if the cord twists more than 90 degrees

3. Through-cord heating-pad switches – unless all connections are secured mechanically such as riveted
   a) The conductors are severed near the switch terminals
   b) 50 lbf (222N) for 1 minute
   c) It is unacceptable if the conductors are pulled away from the terminals
   d) If the conductors were not severed, the results are unacceptable if there is any breakage of the conductor or disruption of connections in the switch

4. Range and dryer power supply cord kits
   a) 35 lbf (15.9 kg) pull for 1 minute
   b) The mounting plate is to be supported in each of the following position:
   - Horizontal
   - Vertical with the axis of the cord in horizontal position
   - Vertical with the axis of the cord in vertical position
   c) There shall be no damage to the cord insulation
   d) There shall be no movement of the cord with respect to the strain relief

Products Requiring Strain Relief Test:

1. One sample from production lot per cord type per model.
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six cord types, different types should be selected in the next visit.

11.10 Abrupt Pull Test - Quarterly

Method

1. Cords employing a grounding conductor – See UL 817, Fig. 99.1
   a) Free fall impact until any of the conductors broken, or
   b) 25 impacts
   c) It is not acceptable if the grounding conductor breaks before the line conductors.
   d) The grounding conductor must withstand 40A at 6-12V for 2 minutes.

2. Cords employing two conductors
   a) Same setup as Ul 817, Fig. 99.1 except for 45 degree angle
   b) 5 impacts without opening of any conductors
   c) Free fall distance is 7 inches (178 mm)
   d) Test orientation:
   - Blades in the vertical position
   - Rotate 90 degrees to the right
   - Rotate 90 degrees to the left

Products Requiring Abrupt Pull Test:

1. One sample from production lot per cord type per molding.
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six cord types, different types should be selected in the next visit.

11.11 Jacket Retention Test - Quarterly

Method

1. Applicable to mold-on assemblies employing attachment plugs and current taps
   a) Same setup with UL 817, Fig. 99.1
   b) Fitting with 12 inches (305 mm) of flexible cord attached
   c) 10 impacts
   d) The fitting is mounted horizontally
   - 3 lbf (1.4 kg) is suspended at a point of 8 inches (203 mm) from the cord entry.
   e) 360 degrees rotation about horizontal axis
   f) There shall be no any material inside the jacket visible at the point where the cord enters the fitting.

2. Applicable to all mold-on fitting assemblies
   a) Fitting with 12 inches (305 mm) of flexible cord attached
   b) Slit a short distance at 6 inches (152 mm) from the cord entry
   c) All internal conductors are severed
   d) 15 lbf (67N) is to be applied for 2 minutes at 8 inches (203 mm) from the cord entry.
   e) There shall be no any material inside the jacket visible at the point where the cord enters the fitting.

Products Requiring Jacket Retention Test:

1. One sample from production lot per cord type per molding.
2. Total number of minimum 3; maximum 6 types are to be selected and tested.
3. If there are more than six cord types, different types should be selected in the next visit.

11.12 Overcurrent Protection Test - Annually

Method

Per the test methods described in the Standard for Cord Sets and Power-Supply Cords UL 817 based on the product configuration and rating.

Products Overcurrent Protection Test:

10 samples of each complete cord set and power supply cord having all fuses in place and 10 separate samples of each fuse used.

1. General use cord set employing 18 AWG or 17 AWG conductors.
2. Outdoor use cord set employing 18 AWG or 17 AWG conductors.
3. 2-wire power supply cord employing 20 AWG conductors.
4. Through-cord device.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
30-May-2016	Cyril Zhang/ Rachel Wang	1	-	1 Change standard ANSI/UL817 to be UL817 according to global requirement; 2 Add blank row between different standard according to global requirement; 3 Update standard UL817 to be latest version"UL817, Twelfth Edition, Dated: March 11:2015 ,Rev: March 9,2016" 4 Update standard CSA C22.2 No 21 to be latest version "CSA C22.2 No 21-14, Dated: February 2014; Amendment No 1: January 2015" 5 For address for applicant and manufacturer 1, add post code 311605 6 For contact for applicant and manufacturer 1, change from original "Jerry Mattrew" to be "Mr BaoFengFang" 7 For phone no for applicant and manufacturer 1, change from original “0086-571-64184160-803” to be "0571-58317207" 8 Delete fax no for applicant and manufacturer 1 9 For email address for applicant and manufacturer 1, change from original "jerry@powerkaite.com" to be "gma@powerkaite.com" 10 Add manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd."
160502450SHA		2	-	Add alterative trade mark "KMC"
		7	1,2	1 Change standard ANSI/UL817 to be UL817 according to global requirement; 2 Add marking information for added manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd." which with control no 5003846 3 Add alterative trade mark "KMC"
		8	-	1 Change standard ANSI/UL817,ANSI/UL498,ANSI/UL498A to be UL817,UL498,UL498A according to global requirement; 2 Update standard UL817 to be latest version"UL817, Twelfth Edition, Dated: March 11:2015 ,Rev: March 9,2016" 3 Update standard CSA C22.2 No 21 to be latest version "CSA C22.2 No 21-14, Dated: February 2014; Amendment No 1: January 2015" 4 Add test summary information
27-Jun-2016	Cyril Zhang/ Rachel Wang	2	-	Add cord guage 12AWGX3C for type 40314
160601561SHA		3	1~5	Correct type designation from original typo "GC201" to be correct "40106"
		4	9,10	Add cord guage 12AWGX3C for type 40314
		8	-	Add test summary
15-Aug-2016	Cyril Zhang/ Rachel Wang	2	-	Add new type 40106A,KT101A,KT101 and relative product description
160800662SHA		3	10~17	Add photo for new added type 40106A,KT101A,KT101
		4	16~30	Add component for new added type 40106A,KT101A,KT101
		7	1~4, 11~15	1 Add marking information for new added type 40106A,KT101A,KT101 2 Add dimension drawing for new added type 40106A,KT101A,KT101
		8	-	Add test summary

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
15-Oct-2018	Da Deng/	2	-	1 Add description for alternative insert construction for KT101; 2 For models, only keep model designation, move other words description to model simility part
180901928SHA	Rachel Wang	3	18~25	Add photo for KT101 which with alternative insert
		4	28,29, 32,33	Add component information for new added alternative insert for KT101
		7	1~4	Change information "CERTIFIED TO CSA STD.C22.2 NO. 21" to be "CERTIFIED TO CSA STD.C22.2#21"
		7	16	Add engineering dimension drawing for alternative insert for KT101
		8	-	Add test summary information
		12	-	Add revision summary information
8-Mar-2019	Da Deng/	1	3	Add manufacturer 3 "Kingtec (vietnam) technologies Co.,ltd."
190300337SHA	Rachel Wang	6	9	Change information "See illustration no 1 to 4 for details." to be "See illustration no 1 to 2 for details."
		6	10	Change information "See illustration no 1 to 5 for details" to be "See illustration no 1 to 3 for details."
		7	2,4	1 Delete marking label for original control no 5003846;
		7	1~14	Renumbering illustration no
		7	1	1 Add note 4 for date code information; 2 Add note 5 for alternative trade mark "KMC" information; 3 Add note 6 for control no information 5003846 for manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd."; 4 Add note 7 for control no information for new added manufacturer 3 "Kingtec (vietnam) technologies Co.,ltd." 5 Add note 8 for new added multiple listee 1 "Zhejiang Focus-On Import & Export Co.,Ltd" which with multiple listee model 370-0220 according to basic model KT101
		7	2	1 Add note 3 for date code information; 2 Add note 4 for alternative trade mark "KMC" information; 3 Add note 5 for control no information 5003846 for manufacturer 2 "Zhejiang Camet Electrical Appliance Co.,Ltd."; 4 Add note 6 for control no information for new added manufacturer 3 "Kingtec (vietnam) technologies Co.,ltd."
		8	-	Add test summary information
		9	1	Add multiple listee 1 "Zhejiang Focus-On Import & Export Co.,Ltd."
		12	-	Add revision summary information