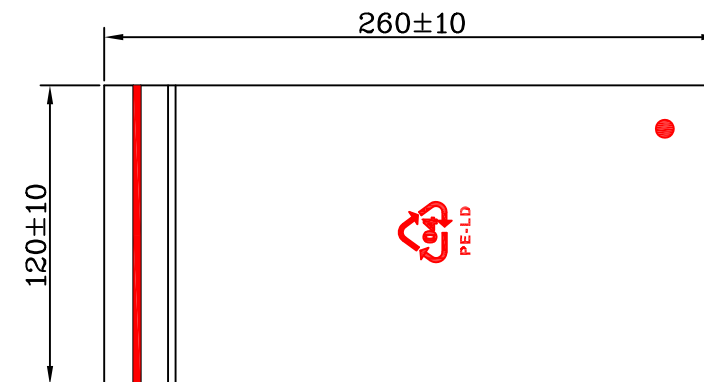
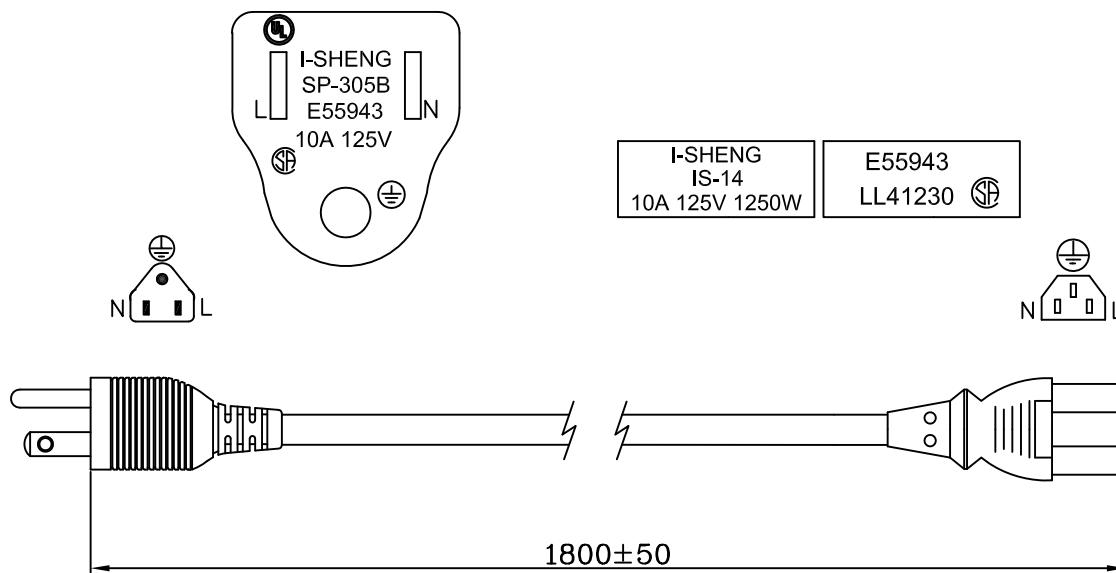
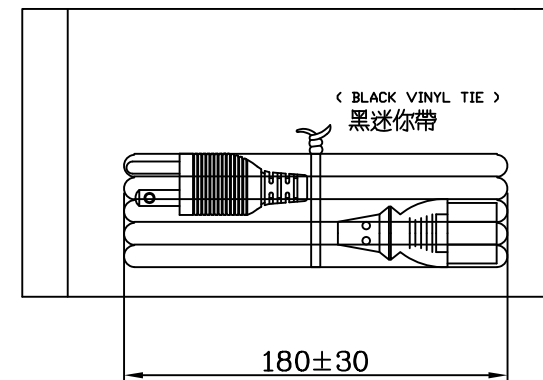




環保袋 ( PE BAG )



線材印字:

(UL) E88265 SVT 60°C 3X18AWG(0.824mm<sup>2</sup>) 300V VW-1 I-SHENG  
CSA LL81924 TYPE SVT 60°C 3X0.824mm<sup>2</sup>(18AWG) 300V VW-1

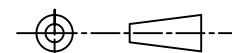
WIRING COLOR:

E: Green  
N: White  
L: Black

綠  
白  
黑

|    |      |                         |     |      |
|----|------|-------------------------|-----|------|
| 9  | 袋子   | 紅一點環保袋 26CM             | 1   | PCS  |
| 8  | PVC  | PVC 50P (IS-014) CT-12  | 20  | g    |
| 7  | 內模套  | IS-14 內模套               | 1   | PCS  |
| 6  | 銅片   | KPR-14 銅片               | 3   | PCS  |
| 5  | PVC  | PVC 30P (SP-305B) CT-12 | 23  | g    |
| 4  | 外殼   | SP-305 外殼               | 1   | PCS  |
| 3  | 內殼   | SP-305 內殼               | 1   | PCS  |
| 2  | 銅片   | 絕緣銅片                    | 2   | PCS  |
| 1  | 銅管   | □ 4.75 銅管               | 1   | PCS  |
| NO | TYPE | DESCRIPTION             | QTY | UNIT |

ROHS



DRAWN,BY: Barbara

CHECK,BY:

APP,BY:S00001T

CUSTOMER:

ALL DIMENSIONS IN mm



愷傑科技有限公司

TEL:02-8282-5092 FAX:02-8282-5193

ITEM: SP-305B+IS-14 美規 二扁一圓 /品字 1.8M 黑色  
SVT 18/3 60°C 凹字 CT-12(BLACK)

PART NO : CPOW209582018000

DRAWING NO :

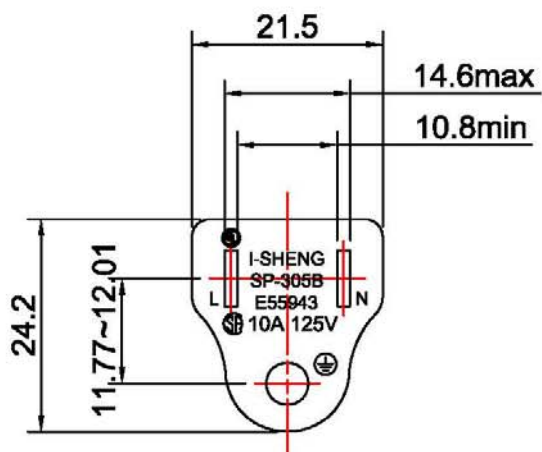
CUSTOMER P/N:

DATE:2015/04/10

PAGE:1/1

REV

A



TAIWAN MARKING:

① I-SHENG  
SP-305B  
E55943  
Ⓢ 10A 125V

KUNSHAN MARKING:

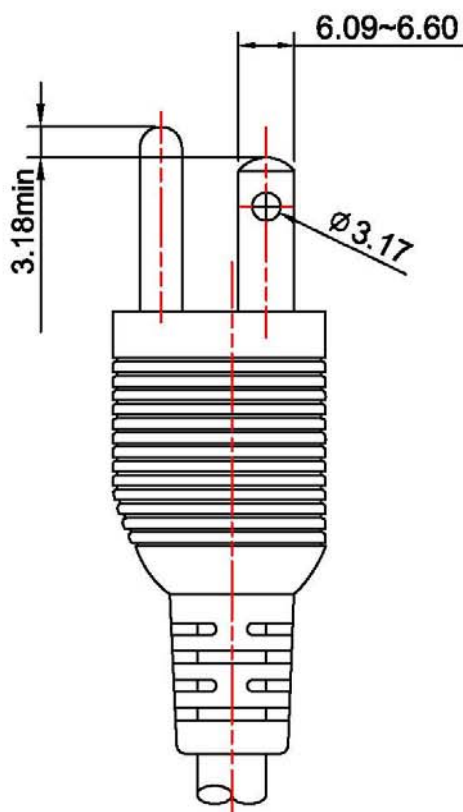
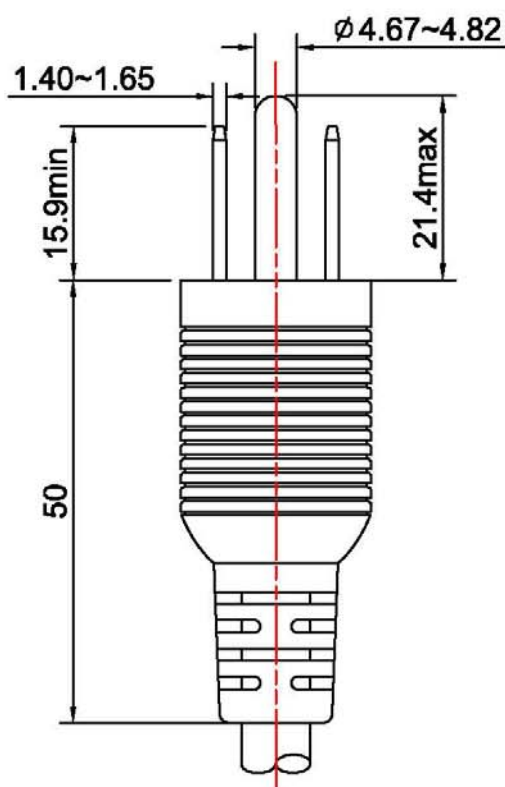
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SP-305B  
E55943  
Ⓢ 10A 125V ㊀

SHENZHEN MARKING:

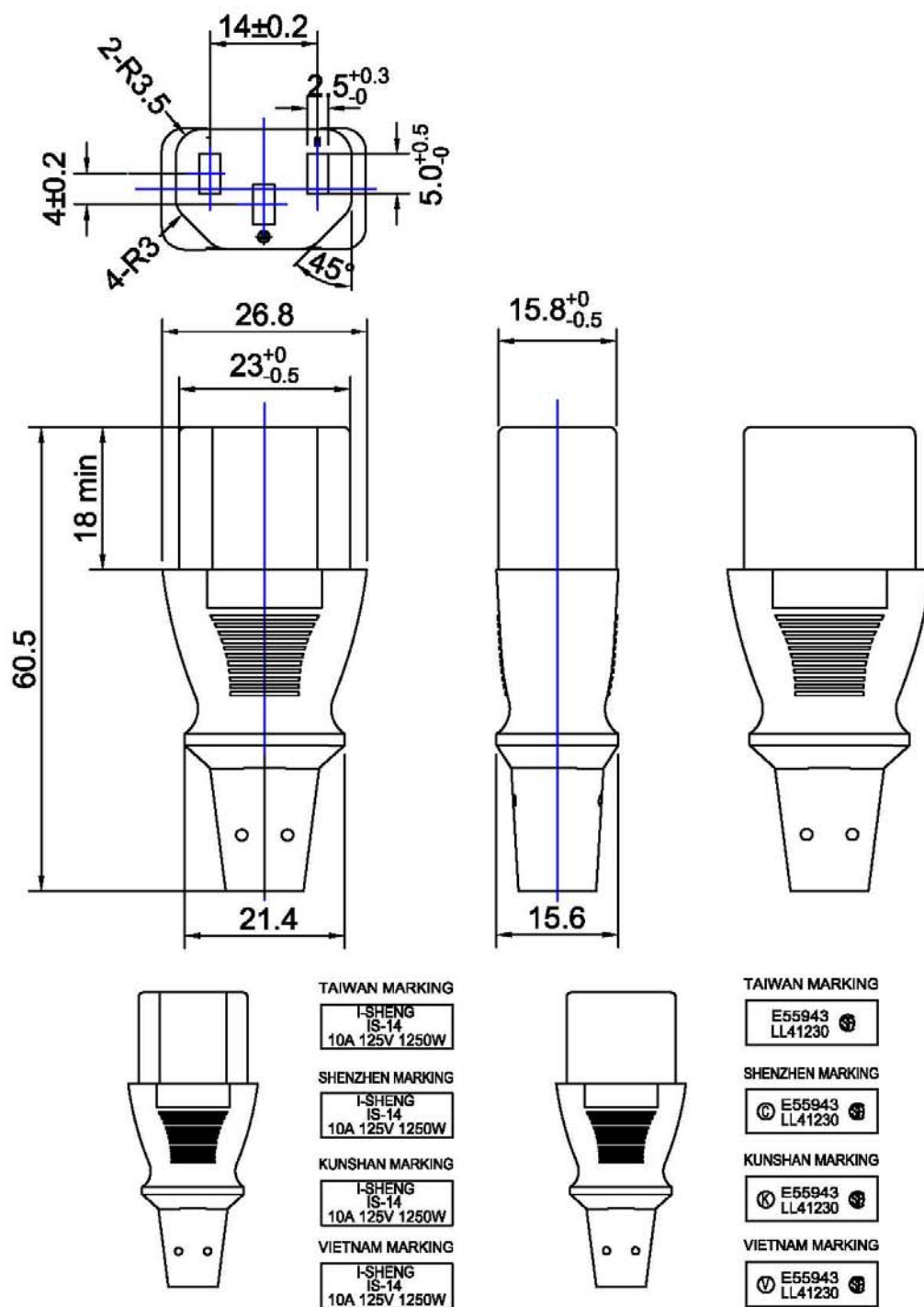
① I-SHENG  
SP-305B  
E55943  
Ⓢ 10A 125V ㊀

VIETNAM MARKING:

① I-SHENG  
SP-305B  
E55943  
Ⓢ 10A 125V ㊀



| DWG. NAME         | TYPE AND DIMENSIONS                 |            |             | TOLERANCE |      |
|-------------------|-------------------------------------|------------|-------------|-----------|------|
| APPLY TO STANDARD | AMERICAN APPROVAL POWER SUPPLY CORD |            |             |           |      |
| ISSUE DATE        | 2009/10/15                          | REV.       | B           | ≤ 1.0     | ±0.3 |
| REVISE DATE       | 2014/4/30                           | UNIT       | mm          |           |      |
| TYPE              | SP-305B                             | DWG. NO.   | V5B-3       | ≤ 10.0    | ±0.5 |
| WIRE              | SVT,SJT 18AWGX3C                    |            |             |           |      |
|                   |                                     | DESIGN BY  | VIVIAN HUNG | ≤ 20.0    | ±1.0 |
|                   |                                     | REVIEW BY  | FANNY WANG  |           |      |
|                   |                                     | APPROVE BY | RYAN LAI    | > 20.0    | ±2.0 |



|                   |                                     |            |             |  |           |      |
|-------------------|-------------------------------------|------------|-------------|--|-----------|------|
| DWG. NAME         | TYPE AND DIMENSIONS                 |            |             |  | TOLERANCE |      |
| APPLY TO STANDARD | AMERICAN APPROVAL POWER SUPPLY CORD |            |             |  |           |      |
| ISSUE DATE        | 2009/06/04                          | REV.       | A           |  | ≤ 1.0     | ±0.3 |
| REVISE DATE       |                                     | UNIT       | mm          |  |           |      |
| TYPE              | IS-14                               | DWG. NO.   | L14-03-1    |  | ≤ 10.0    | ±0.5 |
| WIRE              | SVT,SJT 18AWG/3C                    |            |             |  |           |      |
|                   |                                     | DESIGN BY  | FANNY WANG  |  | ≤ 20.0    | ±1.0 |
|                   |                                     | REVIEW BY  | VIVIAN HUNG |  |           |      |
|                   |                                     | APPROVE BY | RYAN LAI    |  | ≥ 20.0    | ±2.0 |

# SPECIFICATION

Rev. 1.0

|         |           |                                 |          |           |
|---------|-----------|---------------------------------|----------|-----------|
| Issued  | 2015/3/19 | Description                     | File No. | V5BVS3316 |
| Revised |           | SP-305B+IS-14<br>SVT 18/3C 60°C | Page     | 1/1       |

## 1. Scope :

This specification is applied to power supply cord conforming to:  
UL 62 UL 817 CSA C22.2

## 2. Construction and dimensions:

In accordance with the following tables and attached drawings.

| Item      | Cat. No. | Rating |     | Approved No. |          |
|-----------|----------|--------|-----|--------------|----------|
|           |          | A      | V   | UL           | CSA      |
| Plug      | SP-305B  | 10     | 125 | E55943       | LR 35162 |
| Connector | IS-14    | 10     | 125 | E55943       | LL 41230 |

|                                                                                                                                                                                                   |                                   |                           |                          |                  |                                      |                          |                |                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------|--------------------------|------------------|--------------------------------------|--------------------------|----------------|-----------------------------------------------------------------------------------------------------------|
| Flexible cord                                                                                                                                                                                     |                                   |                           |                          |                  | SVT 18/3C                            |                          |                |                                                                                                           |
| Approved No.                                                                                                                                                                                      |                                   |                           |                          |                  | E88265 、 E314513 、 E315167 、 LL81924 |                          |                |                                                                                                           |
| Rating                                                                                                                                                                                            |                                   |                           |                          |                  | 300V 60℃                             |                          |                |                                                                                                           |
| Conductor                                                                                                                                                                                         |                                   | Insulation                |                          |                  | Jacket                               |                          |                | Conductor Resistance                                                                                      |
| Nominal<br>(mm <sup>2</sup> )<br>(AWG)                                                                                                                                                            | Composition<br>(pcs/mm)           | Avg.<br>Thickness<br>(mm) | Min<br>Thickness<br>(mm) | Diameter<br>(mm) | Avg.<br>Thickness<br>(mm)            | Min<br>Thickness<br>(mm) | Diameter       | Max 22.4Ω/km at 20℃<br><br>In case of dispute,<br>Conductor resistance<br>shall be the referee<br>method. |
| 18AWG                                                                                                                                                                                             | 40/ $\phi$ 0.162<br>+0.003/-0.008 | 0.38                      | 0.33                     | $\phi$ 2.1±0.1   | 0.76                                 | 0.61                     | $\phi$ 6.3±0.2 |                                                                                                           |
| <div><div>PVC Insulation</div><div>Copper Conductor</div><div>PVC Jacket</div></div> <td>Insulation Color</td> |                                   |                           |                          |                  |                                      |                          |                | Insulation Color                                                                                          |
|                                                                                                                                                                                                   |                                   |                           |                          |                  |                                      |                          |                | Black                                                                                                     |
|                                                                                                                                                                                                   |                                   |                           |                          |                  |                                      |                          |                | White                                                                                                     |
|                                                                                                                                                                                                   |                                   |                           |                          |                  |                                      |                          |                | Green                                                                                                     |

## 3. Cable marking on the sheath:

|                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Taiwan:<br>(UL) E88265 SVT 60°C 3X18AWG(0.824mm <sup>2</sup> ) 300V VW-1 I-SHENG CSA LL81924 TYPE SVT 60°C 3X0.824mm <sup>2</sup> (18AWG) 300V VW-1     |
| Shenzhen:<br>(UL) E88265-C SVT 60°C 3X18AWG(0.824mm <sup>2</sup> ) 300V VW-1 I-SHENG CSA LL81924 TYPE SVT 60°C 3X0.824mm <sup>2</sup> (18AWG) 300V VW-1 |
| (UL) E315167 SVT 60°C 3X18AWG(0.824mm <sup>2</sup> ) 300V VW-1 I-SHENG CSA LL81924 TYPE SVT 60°C 3X0.824mm <sup>2</sup> (18AWG) 300V VW-1               |
| Kunshan:<br>(UL) E88265-K SVT 60°C 3X18AWG(0.824mm <sup>2</sup> ) 300V VW-1 I-SHENG CSA LL81924 TYPE SVT 60°C 3X0.824mm <sup>2</sup> (18AWG) 300V VW-1  |
| (UL) E314513 SVT 60°C 3X18AWG(0.824mm <sup>2</sup> ) 300V VW-1 I-SHENG CSA LL81924 TYPE SVT 60°C 3X0.824mm <sup>2</sup> (18AWG) 300V VW-1               |

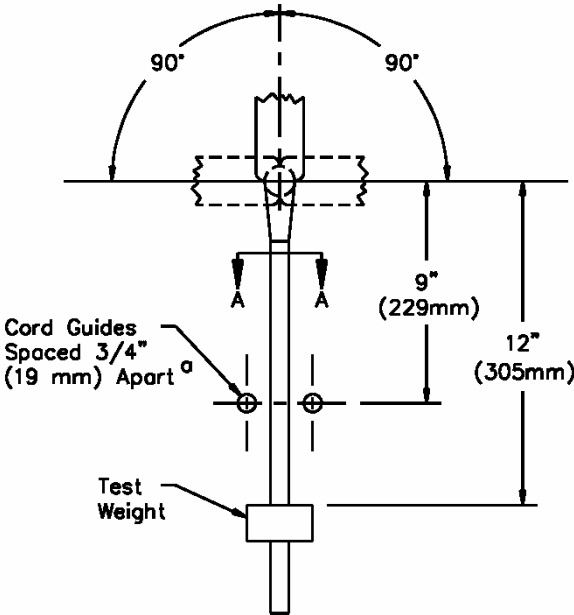
# I-SHENG ELECTRIC WIRE & CABLE CO., LTD.

|                             |                  |                                                         |                 |
|-----------------------------|------------------|---------------------------------------------------------|-----------------|
| 發行 ISSUED<br>2000.03.05     | 標準名稱<br>STD.NAME | SPECIFICATION                                           | 檔案編號<br>FILE NO |
| 修訂<br>REVISED<br>2010.05.04 | 題目<br>TITLE      | THE CHARACTERISTIC OF POWER SUPPLY<br>CORD FOR UL & CSA | SPEC-AC         |

| Items<br>項目 |                                  | Conditions<br>條件                                                                                                                                                                                                                                                                                                              |                                                                                                                                              | Specification<br>規格                                                             |
|-------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1           | Insulation<br>resistance<br>絕緣抵抗 | The measurement shall be made after an open-circuit output of 500 V for 1 minute at an ambient temperature of 20°C .                                                                                                                                                                                                          | a) Live parts of opposite polarity,                                                                                                          | The insulation resistance shall not be less than 100 MΩ.                        |
|             |                                  |                                                                                                                                                                                                                                                                                                                               | b) Live parts and dead metal parts that are exposed to contact by persons or that may be grounded in service.                                |                                                                                 |
|             |                                  |                                                                                                                                                                                                                                                                                                                               | c) Live parts and any surface of insulating material that is exposed to contact by persons or that may be in contact with ground in service. |                                                                                 |
| 2           | Electric strength<br>耐電壓         | Each cord set or power-supply cord shall be capable of withstanding without breakdown for a period of 1 minute<br>The application of a 60-Hz potential of 2000 V between any two conductors.<br><br>Testing transformer capacity (耐壓計容量)<br>:500 VA or more<br>Leakage current (遮斷電流)<br>:2mA<br>frequency (周波數)<br>:50/60 Hz | Between two Conductors<br><br>2000V/1min.                                                                                                    | There was no dielectric breakdown.                                              |
|             |                                  |                                                                                                                                                                                                                                                                                                                               | Between conductors<br>And outside body.<br><br>2000V/1min.                                                                                   |                                                                                 |
| 3           | Temperature rise<br>溫昇           | A rated current is passed through the circuit. The devices under test were caused to carry the test current continuously for a period of four hours.                                                                                                                                                                          |                                                                                                                                              | The temperature rise shall not exceed 30 degrees above the ambient temperature. |

# I-SHENG ELECTRIC WIRE & CABLE CO., LTD.

|                  |         |                  |                                                         |                 |
|------------------|---------|------------------|---------------------------------------------------------|-----------------|
| 發行<br>2000.03.05 | ISSUED  | 標準名稱<br>STD.NAME | SPECIFICATION                                           | 檔案編號<br>FILE NO |
| 修訂<br>2010.05.04 | REVISED | 題目<br>TITLE      | THE CHARACTERISTIC OF POWER SUPPLY<br>CORD FOR UL & CSA | SPEC-AC         |

| Items<br>項目                                                                                                                                     | Conditions<br>條件                                                                                                                                                                                                                                                                      | Specification<br>規格            |                          |                                             |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|---------------------------------------------|---------------------------------|
| 4 Flexing test<br>屈曲強度                                                                                                                          | Samples should be molded to a 20 inch length of flexible cord.                                                                                                                                                                                                                        |                                |                          |                                             |                                 |
|                                                                                                                                                 | The test weights attached to each cord approximately 12 inches from the point of rotation is subjected to 113g for SPT types and 284g for HPN type.                                                                                                                                   |                                |                          |                                             |                                 |
|                                                                                                                                                 | A minimum of 2,500 flexing cycles consist of: rotation of the jaws from the vertical position until 90 degrees to one side, back past the vertical position until 90 degrees to the other side, and back to the vertical position. The rate of testing shall be 10 cycles per minute. |                                |                          |                                             |                                 |
|                                                                                                                                                 |                                                                                                                                                                                                                                                                                       | Load Weight (g)                | Angle $\theta(^{\circ})$ | Furthermore 90°rotational direction (turns) | Rate of flexing per min (turns) |
|                                                                                                                                                 | plug                                                                                                                                                                                                                                                                                  | SPT TYPES 113<br>HPN TYPES 284 | 90                       | 2500                                        | 10                              |
| connector                                                                                                                                       | SPT TYPES 113<br>HPN TYPES 284                                                                                                                                                                                                                                                        | 90                             | 2500                     | 10                                          |                                 |
| <div>Flexing test apparatus</div> <div>FLEXING CYCLE</div>  |                                                                                                                                                                                                                                                                                       |                                |                          |                                             |                                 |

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|                             |                  |                                                         |                 |
|-----------------------------|------------------|---------------------------------------------------------|-----------------|
| 發行 ISSUED<br>2000.03.05     | 標準名稱<br>STD.NAME | SPECIFICATION                                           | 檔案編號<br>FILE NO |
| 修訂<br>REVISED<br>2010.05.04 | 題目<br>TITLE      | THE CHARACTERISTIC OF POWER SUPPLY<br>CORD FOR UL & CSA | SPEC-AC         |

| Items<br>項目                   | Conditions<br>條件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specification<br>規格                   |                              |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------|--|--|-----------------|--|-----------------------------|-----|-----|---------------------------|---------------|---------------|-----------------|-----|---------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 Withdrawal force<br>引拔力     | <p>Verification of the maximum withdrawal force<br/>The connector is inserted to the full depth into and withdrawn from the appropriate appliance inlet 10 times. It is then again inserted for a principal mass is such that it exerts a force equal to one-tenth of the maximum withdrawal force specified in the table and it shall be made in one piece and a supplementary.</p> <p>Verification of the minimum withdrawal force<br/>The test pin gauge is applied to each individual connector contact with the contact axes vertical and the gauge hanging vertically downwards. The total mass of the gauge shall be such as to exert the applicable force as show in table.</p> <table><tr><th rowspan="3">Type of connector</th><th colspan="3">Withdrawal force<br/>N ( kg )</th></tr><tr><th colspan="2">Multi-pin gauge</th><th rowspan="2">Single-pin gauge<br/>minimum</th></tr><tr><th>Max</th><th>Min</th></tr><tr><td>0.2A<br/>2.5A<br/>6A<br/>10A</td><td>50<br/>( 5.1 )</td><td>10<br/>( 1.0 )</td><td>1.5<br/>( 0.15 )</td></tr><tr><td>16A</td><td>60<br/>( 6.1 )</td><td>15<br/>( 1.5 )</td><td>2<br/>( 0.2 )</td></tr></table> | Type of connector                     | Withdrawal force<br>N ( kg ) |  |  | Multi-pin gauge |  | Single-pin gauge<br>minimum | Max | Min | 0.2A<br>2.5A<br>6A<br>10A | 50<br>( 5.1 ) | 10<br>( 1.0 ) | 1.5<br>( 0.15 ) | 16A | 60<br>( 6.1 ) | 15<br>( 1.5 ) | 2<br>( 0.2 ) | <p>After Verification of the maximum withdrawal force test. The principal mass is hung on the connector without jolting and the supplementary mass is allowed to fall from a height of 5 cm on to the principal mass. The connector shall not remain in the appliance inlet.</p> <p>After Verification of the minimum withdrawal force test. The test pin gauge is applied gently, and care is taken not to knock the assembly when checking the minimum withdrawal force. The gauge shall not fall from the contact assembly within 3 sec.</p> |
| Type of connector             | Withdrawal force<br>N ( kg )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |                              |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                               | Multi-pin gauge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       | Single-pin gauge<br>minimum  |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                               | Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Min                                   |                              |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 0.2A<br>2.5A<br>6A<br>10A     | 50<br>( 5.1 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10<br>( 1.0 )                         | 1.5<br>( 0.15 )              |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 16A                           | 60<br>( 6.1 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15<br>( 1.5 )                         | 2<br>( 0.2 )                 |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6 Resistance to Aging<br>老化試驗 | Samples of each catalog number were placed in an air-circulating oven maintained at 100 °C for 96 hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | There was no cracking or deformation. |                              |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7 Polarity/Continuity<br>導通   | The power cord shall be test polarity and continuity, the test voltage is 24V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Without breakdown                     |                              |  |  |                 |  |                             |     |     |                           |               |               |                 |     |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

# I-SHENG ELECTRIC WIRE & CABLE CO., LTD.

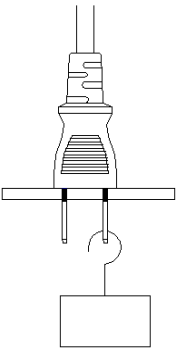
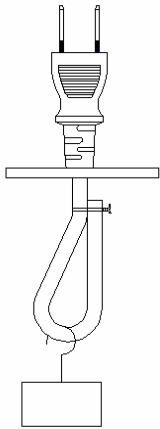
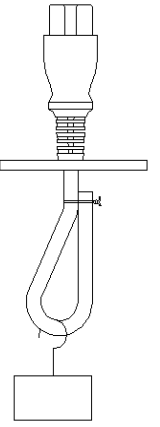
|                             |                  |                                                         |                 |
|-----------------------------|------------------|---------------------------------------------------------|-----------------|
| 發行<br>2000.03.05            | 標準名稱<br>STD.NAME | SPECIFICATION                                           | 檔案編號<br>FILE NO |
| 修訂<br>REVISED<br>2010.05.04 | 題目<br>TITLE      | THE CHARACTERISTIC OF POWER SUPPLY<br>CORD FOR UL & CSA | SPEC-AC         |

| Items<br>項目 |                                                  | Conditions<br>條件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specification<br>規格                                                                                                                                              |
|-------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8           | Resistance to heat<br>耐熱試驗                       | <p>The test being made in a heating cabinet at a temperature of <math>100 \pm 2^{\circ}\text{C}</math>.</p> <p>The specimen is clamped between steel jaws, having a cylindrical face of 25mm radius, a width of 15mm and a length of 50mm. The corners are rounded with a radius of 2.5mm.</p> <p>The specimen is clamped in such a way that the jaws press against it in the area where it is gripped in normal use, the centre line of the jaws coinciding as nearly as possible with the centre of this area.</p> <p>The force applied through the jaws is 20N.</p>                                                                                                                                                                                                                                                                                                                                                               | After 1h, the jaws are removed and the specimen shall show no damage within the meaning of this standard.                                                        |
| 9           | Moisture resistance<br>耐濕性                       | <p>The humidity treatment is carried out in a humidity cabinet containing air with a relative humidity maintained between 91% and 95%. The temperature of the air, at all places where specimens can be located, is maintained within <math>\pm 1^{\circ}\text{C}</math> of any convenient value <math>t^{\circ}\text{C}</math> between <math>20^{\circ}\text{C}</math> and <math>30^{\circ}\text{C}</math>.</p> <p>Before being placed in the humidity cabinet, the specimens are brought to a temperature between <math>t^{\circ}\text{C}</math> and <math>(t+4)^{\circ}\text{C}</math>.</p> <p>The specimens are kept in the cabinet for</p> <ul style="list-style-type: none"> <li>- 168h (7 days) for connector with earthing contact and for appliance inlets with earthing contact, which are submitted as individual accessories, not incorporated in other equipment.</li> <li>- 48h (2 day) in all other cases.</li> </ul> | After this treatment, the specimen shall show no damage.                                                                                                         |
| 10          | Blade Connection<br>Secureness<br>銅片與線材壓著力<br>測試 |  <p>A pull of 20 lbf (89 N) shall be applied if the conductor is No. 18 AWG or larger in size. If a smaller cord is used, the pull shall be 8 lbf (36 N).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The connection shall not break under a pull applied for 1 minute between the element and the conductor before the element has been assembled into the fittings.. |



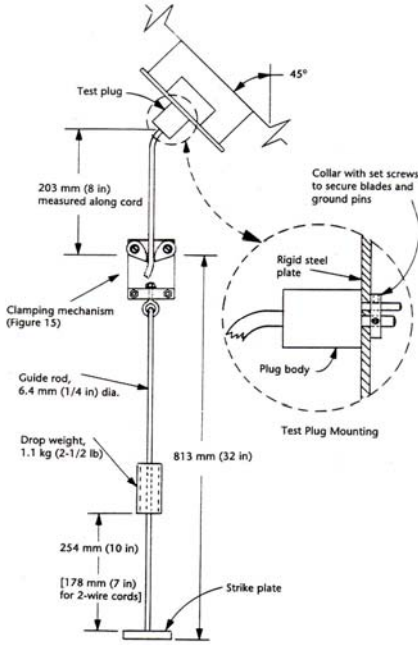
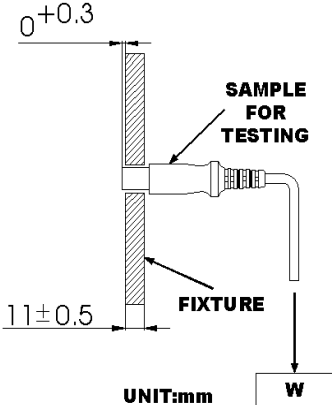
# I-SHENG ELECTRIC WIRE & CABLE CO., LTD.

|                  |         |                  |                                                         |                 |
|------------------|---------|------------------|---------------------------------------------------------|-----------------|
| 發行<br>2000.03.05 | ISSUED  | 標準名稱<br>STD.NAME | SPECIFICATION                                           | 檔案編號<br>FILE NO |
| 修訂<br>2010.05.04 | REVISED | 題目<br>TITLE      | THE CHARACTERISTIC OF POWER SUPPLY<br>CORD FOR UL & CSA | SPEC-AC         |

| Items<br>項目                  | Conditions<br>條件                                                                                                                                                                                                                                                                                                                                                                                                                          | Specification<br>規格                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 11 Blade security<br>銅片牢固力測試 | <p>Apply a straight pull of 89 Newton for 2 min between an attachment plug and blade(s).</p>                                                                                                                                                                                                                                                             | After the test, the blades shall not be displaced by more than 2.4mm.                                                   |
| 12 Strain relief<br>外部拉力測試   | <p>Apply a straight pull of 137.2 Newton for 1 min between an attachment plug and a flexible cord and between a cord connector and a flexible cord.</p>  <p>Between an attachment plug and a flexible cord</p>  <p>Between a cord connector and a flexible cord</p> | Without damage, such as displacement or looseness or detachment of metal parts, conductor break, insulation damage etc. |

# I-SHENG ELECTRIC WIRE & CABLE CO., LTD.

|                  |         |                  |                                                         |                 |
|------------------|---------|------------------|---------------------------------------------------------|-----------------|
| 發行<br>2000.03.05 | ISSUED  | 標準名稱<br>STD.NAME | SPECIFICATION                                           | 檔案編號<br>FILE NO |
| 修訂<br>2010.05.04 | REVISED | 題目<br>TITLE      | THE CHARACTERISTIC OF POWER SUPPLY<br>CORD FOR UL & CSA | SPEC-AC         |

| Items<br>項目                                     | Conditions<br>條件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specification<br>規格                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 13 Abrupt Pull<br>突拉測試                          | <p>Each of six representative assemblies consisting of an attachment plug or current tap molded onto a 12 inch (305 mm) length of flexible cord is necessary for the test.</p> <p>The angle is 45° to the vertical in the event that the grounding conductor doesn't break before any of the line conductors or the test is discontinued after the maximum of 25 impacts has been reached, the acceptability of the grounding conductor is to be verified by causing it to carry a current of 40 A at 6 – 12 V for 2 minutes.</p>  | For each sample, the grounding conductor did not open before any of the line conductors |
| 14 Bending strength of connector body<br>本體機械強度 | <p>After the connector's point is fixed as shown in the figure below. Load of 10kg shall be applied vertically and slowly for 15 s.</p>  <p style="text-align: center;">UNIT:mm</p>                                                                                                                                                                                                                                                                                                                                                | After the test, the connector shall show no damage.                                     |



File E55943

Vol 1

Issued: 1983-08-18

Revised: 2008-01-23

FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

CORD SETS AND POWER-SUPPLY CORDS  
(ELBZ, ELBZ7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: I SHENG ELECTRIC WIRE & CABLE CO LTD  
(153371-001) 52 TIN HWU RD  
TA GANN VILLAGE  
GWAI SAN HSIAN  
TAOYUAN HSIEN 333 TAIWAN

Listee: SAME AS APPLICANT  
(153371-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

William R. Carney  
Director  
North American Certification Program

File E55943

Vol 1

ADDENDUM TO PAGE 1  
AUTHORIZATION PAGE

ISSUED: 1983-08-18  
REVISED: 2008-01-23

LOCATION

- (100225-395) I-SHENG ELECTRIC WIRE & CABLE CO  
(VIETNAM)  
LOT D4-2, QUE VO INDUSTRIAL PARK  
QUE VO DISTRICT VIET NAM
- (153371-001) I SHENG ELECTRIC WIRE & CABLE CO LTD  
52 TIN HWU RD  
TA GANN VILLAGE  
GWAI SAN HSIAN  
TAOYUAN HSIEN 333 TAIWAN
- (628100-001) I SHENG MFG (SONG GANG) FACTORY  
TANG XIA YONG RD  
SONG GANG TOWN  
BAO'AN  
SHENZHEN,  
GUANGDONG 518105 CHINA
- (628100-003) I SHENG ELECTRONICS (KUNSHAN) CO LTD  
KUNSHAN DEVELOPMENT ZONE  
888 TAI SHAN RD  
KUNSHAN,  
JIANGSU 215300 CHINA

GENERALPRODUCT COVERED:

Power Supply Cords.

FACTORY LOCATION AND IDENTIFICATION:

| <u>Location</u> | <u>Identification</u> |
|-----------------|-----------------------|
| (153371-001)    | NONE                  |
| (628100-001)    | "C"                   |
| (628100-003)    | "K"                   |
| (100225-395)    | "V"                   |

TEST EQUIPMENT PROVIDED BY MANUFACTURER:

Test equipment is provided in accordance with the Standard for Cord Sets and Power Supply Cords. The oven used for the Blade Pull At Elevated Temperature Test manufactured by Kao Tieh Machinery Industrial Co., Ltd., Model 7062, calibrated annually.

TESTS TO BE CONDUCTED AT THE FACTORY:

This manufacturer is authorized to perform the Blade Pull at Elevated Temperature Test and the Flexing Test as described in Part III of the Follow-Up and Inspection Instructions for UL 817 at his factory located at Tao Yuang Hsien, Taiwan twice yearly using their own test equipment while being witnessed by our local UL representative.

GENERAL CONSTRUCTION:

Products bearing one of the following Listing Marks shall comply with the Standard of Underwriters Laboratories Inc. for Cord Sets And Power Supply Cords (UL 817), the Canadian National Standard for Cord Sets and Power Supply Cords (C22.2 No. 21-95) and with the applicable description, if any, given elsewhere in this Volume or in the "SP" Volume of this Procedure.

Flexible cord intended for use with C-UL Listed Cord Sets and Power Supply Cords shall be UL Listed and meet the requirements of CSA C22.2 No. 21-95.

**MARKING:**

Listee's name, trade name or E55943 and factory identification in combination with any one of the following Listing Marks.

**Detachable Power Supply Cords intended for shipment to Original Equipment Manufacturers, shall have any applicable makings provided on the outer surface of the shipping carton, or on a tag or the equivalent inside the carton. For Detachable Power Supply Cords intended for shipment to original equipment manufacturer, the electrical rating shall be on a tag, or an equivalent, on each individual Detachable Power Supply Cord unless the ampere rating of the flexible cord is equal to or greater than the ampere rating of the attachment plug.**

**LISTING MARKS:**

UNDERWRITERS LABORATORIES INC.

®

LISTED

and/or

POWER SUPPLY CORD

and/or

DETACHABLE POWER SUPPLY CORD

and/or

NON-DETACHABLE POWER SUPPLY CORDS - SPECIAL PURPOSE

# - Note: The Listing Mark to be used for Special Purpose Power Supply Cords consists of either the "Power Supply Cord - Special Purpose" combination label, or the "Detachable Power Supply Cord - Special Purpose" combination label in conjunction with engineering marking per the applicable Section (Sections 62 and 77) of the Standard for Cord Sets and Power Supply Cords and described in this procedure.

This engineering marking may be printed on the label bearing the Listing Mark or on a separate label.

Refer to individual sections for C-UL acceptance models.

## INDEX

## ATTACHMENT PLUG CAPS:

## NEMA CONFIGURATION

| Cat. No.        | Config. | Cord AWG       | Electrical A   | Sec. | Fig. | C-UL |
|-----------------|---------|----------------|----------------|------|------|------|
| IH-115, SP-301B | 5-15    | 16, 14, 12     | 13, 15, 15     | 1    | 28   | Yes  |
| SP-12, -12N     | 1-15    | 20, 18, 16     | 3, 10, 13      | 1    | 1    | Yes  |
| SP-12A          | 1-15    | 18, 16         | 10, 13         | 1    | 13   | No   |
| SP-12C          | 1-15    | 18             | 7              | 1    | 37   | Yes  |
| SP-13, -13N     | 1-15    | 18             | 10             | 1    | 26   | Yes  |
| SP-14, -14N     | 1-15    | 18, 16         | 10, 13         | 1    | 27   | Yes  |
| SP-15, -15P     | 1-15    | 18             | 10             | 1    | 3    | No   |
| SP-16           | 1-15    | 20, 18         | 3, 10          | 1    | 4    | No   |
| SP-16B          | 1-15    | 18             | 7              | 1    | 16   | Yes  |
| SP-17           | 1-15    | 20, 18         | 3, 10          | 1    | 4    | No   |
| SP-18, -18N     | 1-15    | 18, 16         | 10, 13         | 1    | 6    | No   |
| SP-19           | 1-15    | 18             | 10             | 1    | -    | YES  |
| SP-20, -20N     | 1-15    | 18, 16         | 10, 13         | 1    | 8    | No   |
| SP-30           | 5-15    | 18             | 10             | 1    | 5    | Yes  |
| SP-30A          | 5-15    | 18             | 10             | 1    | 5    | No   |
| SP-77           | 5-15    | 18, 16         | 10, 13         | 1    | -    | Yes  |
| SP-301, -301A   | 5-15    | 18, 16, 14     | 10, 13, 15     | 1    | 7    | Yes  |
| SP-303          | 5-15    | 18, 16, 14     | 10, 13, 15     | 1    | 9    | No   |
| SP-304          | 5-15    | 18, 16, 14     | 10, 13, 15     | 1    | 10   | No   |
| SP-305          | 5-15    | 18             | 10             | 1    | 11   | Yes  |
| SP-305A         | 5-15    | 18, 16         | 10, 13         | 1    | 11   | Yes  |
| SP-305B         | 5-15    | 18, 16         | 10, 13         | 1    | 38   | Yes  |
| SP-306          | 5-20    | 14             | 18             | 1    | 11   | Yes  |
| SP-306A         | 6-20    | 14, 12         | 18, 20         | 1    | 17   | Yes  |
| SP-307          | 5-20    | 14, 12         | 18, 20         | 1    | 18   | Yes  |
| SP-307A         | 6-20    | 14, 12         | 18, 20         | 1    | 19   | Yes  |
| SP-302          | 6-15    | 18, 16, 14     | 10, 13, 15     | 1    | 2    | No   |
| SP-30H          | 5-15    | 18, 16, 14     | 10, 13, 15     | 1    | 12   | Yes  |
| SP-308          | 5-15    | 18, 16, 14     | 10, 13, 15     | 1    | 20   | Yes  |
| SP-308A         | 5-15    | 18, 16, 14     | 10, 13, 15     | 1    | 24   | Yes  |
| SP-308C         | 5-15    | 14, 12         | 15, 15         | 1    | -    | Yes  |
| SP-308D         | 5-15    | 18, 16, 14, 12 | 10, 13, 15, 15 | 1    | -    | Yes  |
| SP-309          | L5-20   | 14, 12         | 18, 20         | 1    | 14   | Yes  |
| SP-309A         | L6-20   | 14, 12         | 18, 20         | 1    | 21   | Yes  |
| SP-310          | L5-30   | 14, 12, 10     | 18, 25, 30     | 1    | 22   | Yes  |
| SP-310A         | L6-30   | 14, 12, 10     | 18, 25, 30     | 1    | 23   | Yes  |
| SP-18H, SP-18HN | 1-15    | 16, 14         | 13, 15         | 1    | 25   | Yes  |
| SP-L142         | L14-20  | 12, 10         | 20, 20         | 1    | 32   | Yes  |
| SP-L143         | L14-30  | 12, 10         | 25, 30         | 1    | -    | Yes  |
| SP-306C         | 5-20    | 14, 12         | 18, 20         | 1    | 29   | Yes  |
| SP-306B         | 6-20    | 14, 12         | 18, 20         | 1    | -    | Yes  |
| SP-71A          | 1-15    | 18, 16         | 10, 13         | 1    | 30   | Yes  |
| SP-74           | 1-15    | 18, 16         | 10, 13         | 1    | 31   | Yes  |
| SP-12D          | 1-15P   | 18             | 7              | 1    | -    | Yes  |

## ATTACHMENT PLUG CAPS:

## NEMA CONFIGURATION

| Cat. No.       | Config.     | Cord AWG    | Electrical A | Sec.     | Fig.      | C-UL       |
|----------------|-------------|-------------|--------------|----------|-----------|------------|
| SP-103         | 10-30       | 10/3        | 30           | 1        | 33        | No         |
| SP-105         | 10-50       | 10/3        | 30           | 1        | 34        | No         |
| SP-143         | 14-30       | 8/2 - 10/1  | 40           | 1        | 35        | No         |
| SP-145         | 14-50       | 8/2 - 10/2  | 40           | 1        | 36        | No         |
| SP-12E         | 1-15        | 18/2        | 7            | 1        | 39        | Yes        |
| SP-302R        | 6-15        | 14/3        | 15           | 1        | 40        | Yes        |
| <b>SP-NE16</b> | <b>1-15</b> | <b>16/2</b> | <b>13</b>    | <b>1</b> | <b>41</b> | <b>Yes</b> |

## NON STANDARD CONFIGURATION

| Cat. No. | Config.           | Cord AWG       | Electrical A/V          | Sec. | Fig. | C-UL |
|----------|-------------------|----------------|-------------------------|------|------|------|
| IS-011   | C-14 Blade Shroud | 18, 17, 16, 14 | 10, 10, 13, 15/125, 250 | 5    | 1    | Yes  |
| IS-011A  | C-14 Blade Shroud | 18, 16         | 10, 13/125, 250         | 5    | 1A   | Yes  |
| SW-011   | C-14 Blade Shroud | 16             | 13/250                  | 5    | 2    | Yes  |
| IS-018   | C-20 Blade Shroud | 14, 14, 12     | 16, 15, 20/125 or 250   | 5    | 3    | Yes  |



## CORD CONNECTOR BODIES:

## NEMA CONFIGURATION

| Cat. No.                                                 | Config.             | Cord AWG   | Electrical A | Sec.     | Fig.      | C-UL       |
|----------------------------------------------------------|---------------------|------------|--------------|----------|-----------|------------|
| IS-013B, IS-013B<br>(A.C.1), IS-013C,<br>IH-505, IH-505A | 5-15                | 16, 14, 12 | 13, 15, 15   | 2        | 22        | Yes        |
| IS-012                                                   | 1-15                | 16, 14     | 13, 15       | 2        | 6         | No         |
| IS-013,<br>IS-013A                                       | 5-15<br>Special Use | 18         | 10           | 2        | 7         | Yes        |
| IS-013                                                   | 5-15                | 16, 14     | 13, 15       | 2        | 7         | No         |
| IS-023                                                   | 5-20R               | 16, 14, 12 | 13, 18, 20   | 2        | --        | No         |
| IS-L142                                                  | L14-20R             | 12, 10     | 20, 20       | 2        | 29        | Yes        |
| IS-L143                                                  | L14-30R             | 10         | 30           | 2        | -         | Yes        |
| PT-013                                                   | 5-15R               | 16, 14     | 13, 15       | 2        | --        | Yes        |
| PT-905A                                                  | 5-15                | 16, 14, 12 | 13, 15, 15   | 2        | 20        | Yes        |
| PT-907A, PT-907B,<br>PT-907C                             | 5-15R               | 14, 12     | 15, 15       | 2        | --        | No         |
| PT-114                                                   | 1-15R               | 16         | 13           | 2        | 23        | Yes        |
| IS-L52                                                   | L5-20R              | 14, 12     | 18, 20       | 2        | 24        | Yes        |
| IS-L53                                                   | L5-30R              | 12, 10     | 20, 30       | 2        | -         | Yes        |
| IS-L63                                                   | L6-30R              | 12, 10     | 20, 30       | 2        | -         | Yes        |
| IS-012L                                                  | 1-15R               | 16         | 13           | 2        | 25        | Yes        |
| IS-013L                                                  | 5-15R               | 16, 14, 12 | 13, 15, 15   | 2        | 26        | Yes        |
| <b>PT-NE114</b>                                          | <b>1-15</b>         | <b>16</b>  | <b>13</b>    | <b>2</b> | <b>53</b> | <b>Yes</b> |

Note: A.C.1 - Alternate Construction No. 1.

## IEC/Non Standard Configuration

| Cat. No.           | Config.    | Cord AWG       | Electrical A/V              | Sec.     | Fig.      | C-UL      |
|--------------------|------------|----------------|-----------------------------|----------|-----------|-----------|
| IS-07              | C-1        | 18             | 7/125                       | 2        | 1         | No        |
| IS-08              | C-7        | 18             | 7/125                       | 2        | 2         | No        |
| IS-010             | C-13       | 18             | 10/125                      | 2        | 3         | No        |
| IS-020             | C-17       | 18             | 10/125                      | 2        | --        | Yes       |
| IS-14              | C-13       | 18, 17, 16, 14 | 10, 10, 13, 15/125 or 250   | 2        | 3A        | Yes       |
| IS-14 (A.C.1)      | C-13       | 18, 16, 14     | 10, 13, 15/125 or 250       | 2        | 30        | No        |
| IS-14B             | C-13       | 14, 12         | 15, 15/125 or<br>10, 10/250 | 2        | --        | Yes       |
| IS-14E             | C-13       | 18, 16         | 10, 13/125 or 250           | 2        | 3A1       | No        |
| IS-15              | C-13       | 18, 17, 16, 14 | 10, 10, 13, 15/125 or 250   | 2        | 5         | Yes       |
| IS-15 (A.C.1)      | C13        | 18, 16         | 10, 13/125 or 250           | 2        | 33        | Yes       |
| IS-15A             | C13        | 18, 16         | 10, 13/125 or 250           | 2        | -         | Yes       |
| IS-15B             | C13        | 18, 16         | 10, 13/ 125 or 250          | 2        | 36        | Yes       |
| IS-17              | C-13       | 18, 16         | 10, 13/125 or 250           | 2        | --        | No        |
| IS-17 (A.C.1)      | C13        | 18, 16         | 10, 13/125 or 250           | 2        | 39        | Yes       |
| IS-17A             | C13        | 18, 16         | 10, 13/125 or 250           | 2        | 39        | Yes       |
| IS-19              | C-15       | 18, 16, 14     | 10, 13, 15/125 or 250       | 2        | 18        | No        |
| IS-19L             | C-15       | 18, 16, 14     | 10, 13, 15/125 or 250       | 2        | 19        | No        |
| IS-033             | C-7        | 18             | 7, 10/125                   | 2        | 8         | Yes       |
| IS-033A            | C-7        | 18             | 7, 10/125                   | 2        | --        | YES       |
| IS-033L            | C-7        | 18             | 7/125                       | 2        | 37        | Yes       |
| IS-033LS           | C-7        | 18             | 7/125                       | 2        | 45        | Yes       |
| IS-034             | C-5        | 18             | 7, 10/125                   | 2        | 10        | No        |
| IS-039             | C-5        | 18             | 7, 10/125                   | 2        | 11        | No        |
| IS-039A            | C-5        | 18             | 7, 10/125                   | 2        | --        | No        |
| <b>IS-039B</b>     | <b>C-5</b> | <b>18</b>      | <b>7/125</b>                | <b>2</b> | <b>49</b> | <b>No</b> |
| IS-037             | C-7        | 18             | 7, 10/125                   | 2        | 9         | No        |
| IS-037A            | C-7        | 18             | 7, 10/125                   | 2        | --        | No        |
| IS-037L            | C-7        | 18             | 7, 10/125                   | 2        | 16        | No        |
| IS-037L<br>(A.C.1) | C-7        | 18             | 7, 10/125                   | 2        | 35        | Yes       |
| IS-038             | C-7        | 18             | 7, 10/125                   | 2        | 9         | No        |
| IS-038A            | C-7        | 18             | 7, 10/125                   | 2        | 12        | No        |
| IS-14A             | C-17       | 18, 16, 14     | 10, 13, 15/250              | 2        | 17        | No        |
| IS-14AH            | C-17       | 18, 16, 14     | 10, 13, 15/250              | 2        | 17        | No        |
| IS-16              | C-19       | 16, 14, 14, 12 | 13, 16, 15, 20/125 or 250   | 2        | 13        | Yes       |
| IS-16B             | C-19       | 16, 14, 12     | 13, 15, 20/125 or 250       | 2        | 13        | Yes       |
| IS-16L             | C19        | 16, 14         | 13, 15/125 or 250           | 2        | 34        | Yes       |
| IS-036             | C-7        | 18<br>16       | 7, 10/125<br>7, 10, 13/125  | 2        | 21        | Yes       |
|                    |            |                |                             |          |           |           |

Note: A.C.1 - Alternate Construction No. 1.

## IEC/Non Standard Configuration

| Cat. No.       | Config.   | Cord AWG    | Electrical A/V    | Sec.     | Fig.      | C-UL       |
|----------------|-----------|-------------|-------------------|----------|-----------|------------|
| IS-08A         | C-7       | 18          | 7,10/125          | 2        | 28        | Yes        |
| IS-08B         | C-7       | 18          | 7/125             | 2        | --        | Yes        |
| IS-033B        | C-7       | 18          | 7,10/125          | 2        | 38        | Yes        |
| IS-08L         | C-7       | 18          | 7/125             | 2        | --        | Yes        |
| IS-034(A.C.1)  | C-5       | 18          | 7,10/125          | 2        | 40        | No         |
| IS-15C         | C13       | 18,16       | 10,13/125 or 250  | 2        | 41        | Yes        |
| IS-033C        | C7        | 18          | 7,10/125          | 2        | 42        | Yes        |
| IS-14C         | C13       | 18,16       | 10,13/ 125 or 250 | 2        | 43        | Yes        |
| IS-08C         | C7        | 18          | 7,10/125          | 2        | 44        | Yes        |
| IS-033D        | C7        | 18/2        | 7/125             | 2        | 48        | Yes        |
| IS-14N         | C13       | 18/3        | 10/125 or 250     | 2        | 50,51     | Yes        |
| <b>IS-034A</b> | <b>C5</b> | <b>18/3</b> | <b>7,10/125</b>   | <b>2</b> | <b>52</b> | <b>Yes</b> |

Note: A.C.1 - Alternate Construction No. 1.

## CURRENT TAPS:

## NEMA Configuration

| Cat. No.                 | Config.     | Cord AWG          | Electrical A/V    | Sec.     | Fig.     | C-UL       |
|--------------------------|-------------|-------------------|-------------------|----------|----------|------------|
| SP-40                    | 1-15        | 18                | 10                | 4        | 1        | No         |
| SP-R12A, SP-R12          | 1-15        | 18, 16            | 10, 13            | 4        | --       | Yes        |
| SP-R30A, SP-R30          | 5-15        | 18, 16            | 10, 13            | 4        | --       | Yes        |
| SP-R30S                  | 5-15        | 18, 16, 14        | 10, 13, 15        | 4        | --       | Yes        |
| <b>SP-R31S, SP-R31SL</b> | <b>5-15</b> | <b>18, 16, 14</b> | <b>10, 13, 15</b> | <b>4</b> | <b>2</b> | <b>Yes</b> |

## UNLISTED COMPONENT, JOINT:

## Y-Joint

| Cat. No. | Cord AWG       | Electrical A/V | Sec. | Fig. | C-UL |
|----------|----------------|----------------|------|------|------|
| SY-01    | (2) 18, (1) 16 | 10             | 6    | 1    | No   |

## APPLIANCE PLUGS:

| Cat. No.     | Cord AWG           | Electrical Rating A/V     | Section  | Fig.     |
|--------------|--------------------|---------------------------|----------|----------|
| <u>IS-50</u> | <u>18/2C (HPN)</u> | <u>10/125 or 5/250</u>    | <u>7</u> | <u>1</u> |
|              | <u>16/2C (HPN)</u> | <u>15/125 V or 10/250</u> |          |          |
|              | <u>14/2C (HPN)</u> | <u>15/125 V or 10/250</u> |          |          |
|              |                    |                           |          |          |
| <u>IS-51</u> | <u>18/2C (HPN)</u> | <u>10/125 or 5/250</u>    | <u>7</u> | <u>2</u> |
|              | <u>16/2C (HPN)</u> | <u>15/125 V or 10/250</u> |          |          |
|              | <u>14/2C (HPN)</u> | <u>15/125 V or 10/250</u> |          |          |
|              |                    |                           |          |          |



# CERTIFICATION RECORD

---

The company named below has been authorized by CSA International to represent the products listed in this record as “CSA Certified” and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

---

File No: 035162\_0\_000

Class No: 5842 02 CORD SETS Power Supply Cords

## SUBMITTOR

4501124 I-Sheng Electric Wire & Cable Co., Ltd.  
No 52 Tin Hwu Rd, Ta Gann Village, Gwai San Hsian,  
Taoyuan Hsien, 33334  
Taiwan

## FACTORIES

4501124 I-Sheng Electric Wire & Cable Co., Ltd.  
No 52 Tin Hwu Rd, Ta Gann Village, Gwai San Hsian  
Taoyuan Hsien, 33334  
Taiwan

4651426 I-Sheng Electric Wire & Cable Co., Ltd.  
Tangxiayyong Rd., Songgang Town, Bao'an Shenzhen,  
Guangdong 518105  
China

4709892 I-Sheng Electric Wire & Cable Co., Ltd.  
No. 888, Tai Shan Rd., Kunshan Development Zone,  
Kun Shan City, Jiang Su Province,, Jiangsu  
China



# CERTIFICATION RECORD

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File No: 035162\_0\_000

Class No: 5842 02 CORD SETS Power Supply Cords

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## FACTORIES

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China

4709892 I-Sheng Electronics (Kunshan)  
Co., Ltd.  
No. 888, Tai Shan Rd.  
Kunshan Development Zone  
Kun Shan City, Jiang Su Province, Jiangsu  
China

4768560 I-Sheng Electric Wire & Cable Co  
Ltd  
Lot D4-2 Que Vo Road  
Que Vo Industrial Park, Bac Ninh  
Vietnam

July 8, 2013(Replaces:November 8, 2012)

THE FOLLOWING COMPLY WITH CSA STD C22.2 NO 21-95, CERTIFICATION NOTICE - WIRING PRODUCTS NO. 6.

| Cat No             | Conf.                  | Rating               | Cord Size (AWG) | Cord Type                                                                                   |
|--------------------|------------------------|----------------------|-----------------|---------------------------------------------------------------------------------------------|
| IS-010             | S-use Female (IEC C13) | 10A, 125/250V        | 18/3            | SVT (S&U), SJT (S&U), SJTW                                                                  |
| IS-020             | S-use Female (IEC C17) | 10A, 125/250V        | 18/3            | SVT (S&U), SJT (S&U)                                                                        |
| IS-011,<br>IS-011A | S-use Male (IEC C14)   | 13A or 15A, 125/250V | 14/3            | SJT, SJTW, SJTO, SJTOW                                                                      |
|                    |                        | 13A, 125/250V        | 16/3            | SJT (S&U), SJTW, SJTO, SJTOW                                                                |
|                    |                        | 10A, 125/250V        | 17/3            | SVT, SJT                                                                                    |
|                    |                        | 10A, 125/250V        | 18/3            | SJT, SVT (S&U), SJTW, SJTO, SJTOW                                                           |
| IS-14,<br>IS-14E   | S-use Female (IEC C13) | 15A, 125/250 V       | 14/3            | SPT-3, SJT, SJTW                                                                            |
|                    |                        | 13A, 125/250V        | 16/3            | SPT-2, SPT-3, SJT (S&U), SJTW                                                               |
|                    |                        | 10A, 125/250V        | 17/3            | SVT, SJT                                                                                    |
|                    |                        | 10A, 125/250V        | 18/3            | SPT-2, SPT-3, SJT, SVT (S&U), SJTW, SVT(TPE), SVTO(TPE), SJT(TPE), SJTO(TPE), SV, SVO, SVOO |
| IS-14A             | S-use Female (IEC C17) | 10A, 125/250V        | 18/2            | SVT, SJT                                                                                    |
| IS-14AH            | S-use Female (IEC C17) | 10A, 125/250V        | 18/2            | SJT(TPE)                                                                                    |
| IS-14B             | S-use Female (IEC C13) | 15A, 125/250V        | 14/3, 12/3      | SJT (S&U), SJTO, SJTW, SJTOW, SJTOOW                                                        |
| IS-19,<br>IS-19L   | S-use Female (IEC C15) | 15A, 125/250 V       | 14/3            | SJT, SJTW                                                                                   |
|                    |                        | 13 A, 125/250 V      | 16/3            | SJT (S&U), SJTW                                                                             |
|                    |                        | 10 A, 125.250 V      | 18/3            | SJT, SVT (S&U), SJTW                                                                        |
| IS-021             | S-use Male             | 6A/10A, 250V         | 18/3            | SJT, SVT (S&U)                                                                              |
| IS-034             | S-use Female           | 7A or 10A, 125V      | 18/3            | SPT-1, -2, SVT (S&U),                                                                       |

|                    |                          |                    |                     |                                                                                                                                                           |
|--------------------|--------------------------|--------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                          |                    |                     | SJT<br>SJTW, SJTO, SJTOW,<br>SPT-2(TPE),<br>SVT(TPE), SVTO(TPE),<br>SJT(TPE), SJTO(TPE),<br>SV, SVO, SVOO                                                 |
| IS-036             | S-use Female<br>(IEC C7) | 7A, 125/250V       | 18/2<br>16/2        | SPT-2, NISPT-2, SVT<br>SPT-2, NISPT-2                                                                                                                     |
| IS-039,<br>IS-039A | S-use Female             | 7A or 10A,<br>125V | 18/3                | SPT-1, -2,<br>SVT (S & U),<br>SJT<br>SJTW, SJTO, SJTOW<br>SVT(TPE), SVTO(TPE),<br>SJT(TPE), SJTO(TPE),<br>SV, SVO, SVOO                                   |
| IS-039B            | S-use Female             | 7A or 10A,<br>125V | 18/3                | SVT                                                                                                                                                       |
| SP-15P             | 1-15P                    | -                  | 18/2                | SPT-1, -2                                                                                                                                                 |
| SP-20,<br>SP-20N   | 1-15P                    | -                  | 16/2                | SJ, SJO, SJOO, SJOW,<br>SJOOW, SJT, SJTW, SJTOW                                                                                                           |
|                    |                          |                    | 18/2                | SJ, SJO, SJOO, SJOW,<br>SJOOW, SVT, SJT, SJTW,<br>SJTOW                                                                                                   |
| SP-30,<br>SP-30A   | 5-15P                    | -                  | 18/3                | SPT-2, SJT,<br>SVT (S&U)<br>SVT(TPE), SVTO(TPE),<br>SJT(TPE), SJTO(TPE), SV,<br>SVO, SVOO                                                                 |
| SP-30H             | 5-15P                    | -                  | 18/3, 16/3          | SJT                                                                                                                                                       |
| SP-301             | 5-15P                    | -                  | 12/3                | SJT, SJTO, SJTW, SJTOW                                                                                                                                    |
|                    |                          |                    | 14/3                | SPT-3, SJT (S&U), SJTW<br>(S&U), SJTOW(S&U), S<br>(S&U), SJ (S&U)                                                                                         |
|                    |                          |                    | 16/3                | SPT-2, SJT (S&U), SJTW<br>(S&U), SJTOW (S&U), S<br>(S&U), SJ (S&U), ST, STO,<br>STOW, STW                                                                 |
|                    |                          |                    | 18/3                | SPT-1, -2, -3, SVT (S&U),<br>SJT(S&U), SJTW (S&U),<br>SJTOW(S&U), S (S&U), SJ<br>(S&U), SVT(TPE), SVTO<br>(TPE),<br>SJT(TPE), SJTO(TPE), SV,<br>SVO, SVOO |
|                    |                          |                    | 14/3, 16/3,<br>18/3 | HPN                                                                                                                                                       |



|                 |       |                        |                  |                                                                                                                 |
|-----------------|-------|------------------------|------------------|-----------------------------------------------------------------------------------------------------------------|
| SP-301A         | 5-15P | -                      | 12/3             | SJT, SJTO, SJTW, SJTOW                                                                                          |
|                 |       |                        | 14/3             | SPT-3, SJT (S&U), SJTW (S&U), SJTOW(S&U), S (S&U), SJ(S&U)                                                      |
|                 |       |                        | 16/3             | SPT-2, SJT (S&U), SJTW (S&U), SJTOW(S&U), S (S&U), SJ(S&U)                                                      |
|                 |       |                        | 18/3             | SPT-1,-2,-3, SVT (S&U), SJT (S&U), SJTW (S&U), SJTOW (S&U), S(S&U), SJ(S&U)                                     |
|                 |       |                        | 14/3, 16/3, 18/3 | HPN                                                                                                             |
| SP-301B, IH-115 | 5-15P |                        | 12/3, 14/3       | SJT, SJTO, SJTW, SJTOW, ST, STO, STW, STOW                                                                      |
|                 |       |                        | 16/3             | SJT, SJTO, SJTW, SJTOW                                                                                          |
| SP-302          | 6-15P | -                      | 14/3, 16/3, 18/3 | SJT                                                                                                             |
|                 |       |                        | 18/3             | SJT                                                                                                             |
|                 |       |                        | 18/3             | SVT                                                                                                             |
| SP-303, SP-304  | 5-15P | -                      | 18/3             | SVT, SJT, S, SJ                                                                                                 |
|                 |       |                        | 14/3, 16/3       | SJT, S, SJ                                                                                                      |
| SP-305          | 5-15P | -                      | 18/3             | SPT-2, SVT (S & U), SJT, SJTW, SJTO, SJTOW, SPT-2(TPE), SVT(TPE), SVTO(TPE), SJT(TPE), SJTO(TPE), SV, SVO, SVOO |
| SP-305A         | 5-15P | -                      | 18/3             | SPT-1, -2, SJT, SJTW, SJTO, SJTOW                                                                               |
|                 |       |                        | 16/3             | SPT-2, SJT, SJTW, SJTO, SJTOW, SPT-2(TPE), SVT(TPE), SVTO(TPE), SJT(TPE), SJTO(TPE), SV, SVO, SVOO              |
| SP-305B         | 5-15P | -                      | 18/3             | SPT-2, SVT (S & U), SJT, SJTW, SJTO, SJTOW, SPT-2(TPE), SVT(TPE), SVTO(TPE), SJT(TPE), SJTO(TPE), SV, SVO, SVOO |
|                 |       |                        | 16/3             | SVT                                                                                                             |
| SP-306,SP-307   | 5-20P | 18A, 125V<br>20A, 125V | 14/3             | ST, SJT, SJTW                                                                                                   |
|                 |       |                        | 12/3             | ST, SJT, SJTW                                                                                                   |

|                  |        |                            |                                           |                                                                     |
|------------------|--------|----------------------------|-------------------------------------------|---------------------------------------------------------------------|
| SP-306A, SP-307A | 6-20P  | 18A, 250V<br>20A, 250V     | 14/3<br>12/3                              | ST, SJT, SJTW<br>ST, SJT, SJTW                                      |
| SP-306B          | 5-20P  |                            | 14/3, 12/3                                | SJT, SJTO, SJTW, SJTOO,<br>SJTOOW, ST, STO, STW,<br>STOW            |
| SP-306C          | 6-20P  |                            | 14/3, 12/3                                | SJT, SJTO, SJTW, SJTOO,<br>SJTOOW, ST, STO, STW,<br>STOW            |
| SP-308           | 5-15P  | -                          | 18/3                                      | SPT-2, SPT-3, SVT, SJT,<br>SJTO, SJTW, SJTOW,<br>SJTOOW             |
|                  |        |                            | 16/3                                      | SPT-2, SPT-3, SJT, SJTO,<br>SJTW, SJTOW, SJTOOW                     |
|                  |        |                            | 14/3                                      | SPT-3, SJT, SJTO, SJTW,<br>SJTOW, SJTOOW                            |
| SP-308A          | 5-15P  | -                          | 18/3<br>16/3, 18/3<br>14/3, 16/3,<br>18/3 | NISPT-1<br>SPT-2, NISPT-2<br>SPT-3                                  |
| SP-308C          | 5-15P  | -                          | 14/3, 12/3                                | SJT (S&U), SJTO, SJTW,<br>SJTOW, SJTOOW                             |
| SP-308D          | 5-15P  | -                          | 18/3<br>12/3, 14/3,<br>16/3, 18/3         | SVT (S&U), SJT (S&U)<br>SJT, SJTW, SJTO,<br>SJTOW, SJTOO,<br>SJTOOW |
| SP-309           | L5-20P | 20A, 125V<br>18A, 125V     | 12/3<br>14/3                              | SJT, SJTW                                                           |
| SP-309A          | L6-20P | 20 A, 250 V<br>18 A, 250 V | 12/3<br>14/3                              | SJT, SJTW                                                           |
| SP-310           | L5-30P | 30 A, 125 V                | 10/3                                      | SJT, SJTW                                                           |
| SP310A           | L6-30P | 30 A, 250 V                | 10/3                                      | SJT, SJTW                                                           |
| SP-12,<br>SP-12N | 1-15P  | -                          | 16/2<br>18/2                              | SPT-2<br>SPT-1, SPT-2, NISPT-2,<br>SPT-2(TPE), NISPT-2(TPE)         |
| SP-12D           | 1-15P  | -                          | 18/2                                      | NISPT-2                                                             |
| SP-12A           | 1-15P  | -                          | 18/2                                      | SPT-1, NISPT-1,<br>SPT-2, NISPT-2                                   |
| SP-12C           | 1-15P  | -                          | 18/2                                      | NISPT-2                                                             |
| SP-13            | 1-15P  | -                          | 18/2                                      | SVT, SVT(TPE), SVTO(TPE),<br>SJT(TPE), SJTO(TPE), SV,<br>SVO, SVOO  |

|                       |            |                                  |                    |                                                                                |
|-----------------------|------------|----------------------------------|--------------------|--------------------------------------------------------------------------------|
|                       |            |                                  | 18/2, 16/2         | SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW                                          |
| SP-13N, SP-14, SP-14N | 1-15P      | -                                | 18/2<br>18/2, 16/2 | SVT<br>SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW                                   |
| SP-15                 | 1-15P      | -                                | 18/2               | SPT-1, SPT-2                                                                   |
| SP-16, SP-17          | 1-15P      | -                                | 20/2               | SPT-1                                                                          |
| SP-16B                | 1-15P      | 7 A, 125 V                       | 18/2               | SPT-1, SPT-2, NISPT-2                                                          |
| SP-16C                | I-15P      | 2.5 A or 5 A, 125 V              | 18/2<br>16/2       | SVT, SJT, SPT-2, HPN<br>SPT-2, HPN                                             |
| IS-018                | S-use Male | 16 or 18 A, 250 V<br>20 A, 250 V | 14/3<br>12/3       | SJT, SJTW, SJTO, SJTOO, SJTOW, SJTOOW                                          |
| SP-18, SP-18N         | 1-15P      | -                                | 18/2<br>16/2, 18/2 | SPT-1, SPT-2, NISPT-2<br>HPN                                                   |
| SP-18H, SP-18HN       | 1-15P      | 15 A, 125 V                      | 16/2, 14/2         | HPN, SJ, SJO, SJOO, SJOW, SJOOOW                                               |
| SP-19                 | 1-15P      | -                                | 18/2               | SPT-2, NISPT-2                                                                 |
| SP-77                 | 5-15P      | -                                | 18/3               | SPT-2, SPT-3, SVT, SJT, SJTW, SJTO, SJTOW, SJTOOW, SJ, SJO, SJOO, SJOW, SJOOOW |
|                       |            |                                  | 16/3               | SJT, SJTO, SJTW, SJTOO, SJTOW, SJTOOW                                          |
| BS-SR-01              | Bushing    | -                                | 18/2               | SPT-2                                                                          |
| IS-SR-05              | Bushing    | -                                | 14/3               | SJT                                                                            |
| SP-SR-01              | Bushing    | -                                | 18                 | SPT-1, -2                                                                      |
| SP-SR-02              | Bushing    | -                                | 18                 | SPT-1, -2                                                                      |
| ZTC-SR-01             | Bushing    | -                                | 18/2               | SPT-2                                                                          |

## Notes:

1. These are Certified only for supply to manufacturers for the assembly, as components, of Certified electrical equipment where the suitability of the combination is determined by the CSA International.
2. "(S & U)" denotes shielded and unshielded; (N) denotes non-integral; (I&N) denotes integral and non-integral.
3. Bushing may be a part of a Certified power supply cord.

| Cat No        | Conf.                 | Rating        | Cord Size (AWG) | Cord Type                |
|---------------|-----------------------|---------------|-----------------|--------------------------|
| IS-15, IS-15A | Special-Use connector | 10A, 125/250V | 18/3            | SVT (S&U),<br>SJT (S&U), |

|                            |                                    |                       |      |                                                                            |
|----------------------------|------------------------------------|-----------------------|------|----------------------------------------------------------------------------|
|                            |                                    |                       |      | SVT (TPE),<br>SVTO (TPE),<br>SJT (TPE),<br>SJTO (TPE),<br>SV, SVO,<br>SVOO |
|                            |                                    | 10A, 125/250V         | 17/3 | SVT, SJT                                                                   |
|                            |                                    | 13A, 125/250V         | 16/3 | SJT (S&U)                                                                  |
|                            |                                    | 15A, 125/250V         | 14/3 | SJT (S&U)                                                                  |
| IS-15B, IS-14C             | Special-Use connector<br>(IEC C13) | 10A, 125/250V         | 18/3 | SVT, SJT,<br>SJTO, SJTW,<br>SJTOW                                          |
|                            |                                    | 13A, 125/250V         | 16/3 | SJT, SJTO,<br>SJTOW, SJTOW                                                 |
| IS-15C                     | Special-Use connector<br>(IEC C13) | 10A, 125/250V         | 18/3 | SVT (S&U), SJT,<br>SJTO, SJTW,<br>SJTOW                                    |
|                            |                                    | 13A, 125/250V         | 16/3 | SJT, SJTO,<br>SJTOW, SJTOW                                                 |
| IS-17, IS-17A              | Special-Use connector              | 10A, 125/250V         | 18/3 | SVT,<br>SJT (S&U)                                                          |
|                            |                                    | 13A, 125/250V         | 16/3 | SJT (S&U)                                                                  |
|                            |                                    | 15A, 125/250V         | 14/3 | SJT (S&U)                                                                  |
| IS-16,<br>IS-16B<br>IS-16L | S-use Female<br>(IEC C19)          | 13A, 125/250 V        | 16/3 | SJT, SJTW,                                                                 |
|                            |                                    | 16 or 18 A, 125/250 V | 14/3 | SJTO, SJTOO,                                                               |
|                            |                                    | 20 A, 125/250 V       | 12/3 | SJTOW,<br>SJTOOW                                                           |

File No:041230\_0\_000

MASTER CONTRACT: 151686

SUBMITTOR

I-Sheng Electric Wire & Cable  
Co. Ltd.

No 52, Tin Hwu Rd.

Ta Gann Village

Gwai San Hsian

Taoyuan Hsien 33334

Taiwan

Attention: Mr. I.H. Fang  
President

Date: January 19, 2005

Replaces: July 29, 2004

Main File: Vancouver

| FACTORIES | INSPECTION OFFICE | FILE/FACTORY<br>CONTRACT NO |
|-----------|-------------------|-----------------------------|
|-----------|-------------------|-----------------------------|

MASTER

4501124

|    |                                                                                                                                        |     |              |
|----|----------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|
| F1 | I-Sheng Electric Wire & Cable<br>Co., Ltd.<br>No 52, Tin Hwu Rd.<br>Ta Gann Village<br>Gwai San Hsian<br>Taoyuan Hsien 33334<br>Taiwan | CTS | 41230/151687 |
|----|----------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|

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4546628

|    |                                                                                                                                                       |      |              |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|
| F2 | I-Sheng Electric Wire & Cable<br>Co., Ltd.<br>Fu Ming Road<br>Kunshan Development Zone<br>Kun Shan City<br>Jiang Su Province, Jiangsu 215300<br>China | CCIC | 41230/151688 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|

4558038

|    |                                                                                                                                                 |         |         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| F3 | I-Sheng Electric Wire & Cable<br>Co., Ltd.<br>2nd Blk., Hengzhao Industrial Area<br>Songgang Town, Basan<br>Shenzhen, Guangdong 518105<br>China | DELETED | 41230/- |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|

4651426

|    |                                                                                                                                   |      |              |
|----|-----------------------------------------------------------------------------------------------------------------------------------|------|--------------|
| F4 | I-Sheng Electric Wire & Cable<br>Co., Ltd.<br>Tangxiayyong Road<br>Songgang Town<br>Baocan<br>Shenzhen, Guangdong 518105<br>China | CCIC | 41230/207446 |
|----|-----------------------------------------------------------------------------------------------------------------------------------|------|--------------|

4709892

|    |                                                                                                                                                         |      |              |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|
| F5 | I-Sheng Electric Wire & Cable<br>Co., Ltd.<br>No. 888, Tai Shan Rd.<br>Kunshan Development Zone<br>Kun Shan City, Jiang Su Province<br>Jiangsu<br>China | CCIC | 41230/228142 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|

| REPORT NO-APPL. NO/ FACTORY NOS | SUBJECT |
|---------------------------------|---------|
|---------------------------------|---------|



## Certification Record

| CUSTOMER                                                                                                                           | CLASS                                                      | FILE         |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|
| I-Sheng Electric Wire & Cable Co., Ltd.<br>No 52 Tin Hwu Rd, Ta Gann Village<br>Gwai San Hsian<br>Taoyuan Hsien<br>33334<br>Taiwan | <a href="#">5841-03</a><br>CORD SETS-Special-use Cord Sets | 041230_0_000 |
| Refer to Class Description for program details                                                                                     |                                                            |              |

TO THE REQUIREMENTS OF CSA STDS C22.2 NO 21-95, 42-99, 182.3-M1987:

| Female<br>Cat No                                                                      | Config./<br>Cord AWG,<br>Type | Male<br>Cat No           | Config.                   | Max Rating<br>of Cord Set                                | Cord<br>AWG          | Cord<br>Type                          |
|---------------------------------------------------------------------------------------|-------------------------------|--------------------------|---------------------------|----------------------------------------------------------|----------------------|---------------------------------------|
| <ul style="list-style-type: none"> <li>Single Connector Body per Cord Set.</li> </ul> |                               |                          |                           |                                                          |                      |                                       |
| IS-037,<br>IS-038                                                                     | S-use                         | Certified                | 1-15P                     | 7A, 125V                                                 | 18/2                 | SPT-1, -2*,<br>SVT, SJT               |
| IS-14,<br>IS-14E                                                                      | C13                           | Certified                | 5-15P,<br>6-15P,<br>S-use | 15A,<br>125/250V<br>13A,<br>125/250V<br>10A,<br>125/250V | 14/3<br>16/3<br>18/3 | SJT<br>SJT#<br>SJT, SVT#,<br>SJTW     |
| IS-14E                                                                                | C13                           | IS-011A                  | 5-15P                     | 13A,<br>125/250V<br>10A,<br>125/250V                     | 16/3<br>18/3         | SJT#,<br>SJT, SVT#,                   |
| IS-14, -15                                                                            | C13                           | IS-011,<br>IS-021        | C14                       | 13A,<br>125V,<br>10A,<br>250V max                        | 18/3<br>16/3         | SJT#,<br>SVT#, SJTW                   |
| IS-16                                                                                 | S-use                         | Certified                | 5-15P                     | 7/10A,<br>125V                                           | 18/3                 | SJT, SVT                              |
| IS-033                                                                                | C7                            | SP-12,<br>SP-12N         | 1-15P<br>1-15P            | 7A, 125V                                                 | 18/2                 | SPT-1, -2*                            |
| IS-034,<br>IS-039,<br>IS-039A                                                         | S-use                         | SP-30,<br>SP-302, SP-305 | 5-15P                     | 7A, 125V                                                 | 18/3                 | SVT# , SJT                            |
| IS-038A                                                                               | S-use                         | SP-12A                   | 1-15P                     | 7A, 125V                                                 | 18/2                 | SPT-2<br>non-integral                 |
| IS-037A                                                                               | S-use                         | SP-12N                   | 1-15P                     | 7A, 125 V                                                | 18/2                 | SPT-2<br>non-integral                 |
| IS-14B                                                                                | S-use C13                     | SP-308C                  | 5-15P                     | 15A, 125V                                                | 14/3, 12/3           | SJT (S&U),<br>SJTO,<br>SJTW,<br>SJTO, |

|                                                                                      |                                             |                       |                |           |        |                     |
|--------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|----------------|-----------|--------|---------------------|
| IS-14                                                                                | S-use C13                                   | SP-309A               | L6-20P         | 15A, 250V | 14/3   | SJTOOW<br>SJT, SJTW |
| <ul style="list-style-type: none"> <li>Two Connector Bodies per Cord Set.</li> </ul> |                                             |                       |                |           |        |                     |
| IS-14<br>(or IS-15)<br>and<br>IS-37                                                  | C13/16,18<br>SJT<br><br>C7/18<br>SPT-2, SJT | SP-301<br>(or IS-011) | 5-15P<br>(C14) | 10A, 125V | 14, 16 | SJT++               |
| IS-14<br>and<br>IS-15                                                                | C13/<br>18 SVT+<br>C13/<br>18 SVT           | SW-011                | C14            | 10A, 125V | 16     | SJT++               |

## Legend:

"C7", "C13", "C14" IEC320 Type configurations.

\*Integral and non-integral.

#Shielded and non-shielded.

"Two Connector Bodies per Cord Set" These cord sets each incorporate two connector bodies and a plug cap moulded on flexible cords connected together by a Y-Junction, Cat No SY-03.

+Has strain relief bushing moulded on the flexible cord.

++Flexible cord from plug cap to Y-Junction.



# Certificate of Compliance

**Certificate:** 1981242

**Master Contract:** 151686 (LL 41230)

**Project:** 2576907

**Date Issued:** December 7, 2012

**Issued to:** I-Sheng Electric Wire & Cable Co., Ltd.  
No. 52 Tin Hwu Rd.,  
Ta Gann Village,  
Gwai San Hsian,  
Taoyuan Hsien 33334,  
TAIWAN  
**Attention:** Ms. Kelly Chien

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:**

*Jupiter Huang*  
Jupiter Huang  
Certifier

## PRODUCTS

CLASS 5841 03 - CORD SETS - Special-Use Cord Sets

Cord set(s) consisting of the following plug cap and connector moulded onto flexible cords as listed:

| Female Cat No      | Config./Type | Male Cat No | Config.           | Max Rating of Cord Set | Cord AWG | Cord Type                                               |
|--------------------|--------------|-------------|-------------------|------------------------|----------|---------------------------------------------------------|
| PART A:<br>IS-033  | S-use/C7     | SP-12       | 1-15P (polarized) | 7A, 125V               | 18/2     | SPT1, SPT-2,<br>NISPT-2,<br>SPT-2(TPE),<br>NISPT-2(TPE) |
|                    |              | SP-12N      | 1-15P             |                        |          |                                                         |
| PART B:<br>IS-033A | S-use/C7     | SP-19       | 1-15P             | 7A, 125V               | 18/2     | SPT-2, NISPT-2                                          |
| PART C:<br>IS-08A  | S-use/C7     | SP-12       | 1-15P (polarized) | 7A, 125V               | 18/2     | SPT-1, SPT-2,<br>NISPT-2                                |
|                    |              | SP-12N      | 1-15P             |                        |          |                                                         |





**Certificate:** 1981242

**Master Contract:** 151686 (LL 41230)

**Project:** 2576907

**Date Issued:** December 7, 2012

| Female Cat No                | Config./Type | Male Cat No | Config.           | Max Rating of Cord Set | Cord AWG | Cord Type                |
|------------------------------|--------------|-------------|-------------------|------------------------|----------|--------------------------|
| PART D:<br>IS-08B            | S-use/C7     | SP-12       | 1-15P (polarized) | 7A, 125V               | 18/2     | SPT-1, SPT-2,<br>NISPT-2 |
|                              |              | SP-12N      | 1-15P             |                        |          |                          |
|                              |              | SP-12D      | 1-15P (polarized) |                        |          |                          |
| PART E:<br>IS-033L, IS-033LS | S-use/C7     | SP-12C      | 1-15P             | 7A, 125V               | 18/2     | NISPT-2                  |
|                              |              | SP-12D      | 1-15P (polarized) |                        |          |                          |
|                              |              | SP-12N      | 1-15P             |                        |          |                          |
| PART F:<br>IS-033B           | S-use/C7     | SP-12C      | 1-15P             | 7A, 125V               | 18/2     | NISPT-2                  |
|                              |              | SP-12D      | 1-15P (polarized) |                        |          |                          |
|                              |              | SP-12N      | 1-15P             |                        |          |                          |
| PART G:<br>IS-033C           | S-use/C7     | SP-12C      | 1-15P             | 7A, 125V               | 18/2     | NISPT-2                  |
|                              |              | SP-12D      | 1-15P (polarized) |                        |          |                          |
|                              |              | SP-12N      | 1-15P             |                        |          |                          |
| PART H:<br>IS-08C            | S-use/C7     | SP-12       | 1-15P (polarized) | 7A, 125V               | 18/2     | SPT-1, SPT-2,<br>NISPT-2 |
|                              |              | SP-12D      | 1-15P (polarized) |                        |          |                          |

### **APPLICABLE REQUIREMENTS**

- |                                |   |                                                           |
|--------------------------------|---|-----------------------------------------------------------|
| CSA Std. C22.2 No. 21-95       | - | Cord Sets and Power Supply Cords                          |
| CSA Std. C22.2 No. 182.3-M1987 | - | Special Use Attachment Plugs, Receptacles, and Connectors |
| Informes - Cord Sets No. 7A    | - | Production Line Test for Cord Sets and Power Supply Cords |

File E88265

Vol 1

Issued: 1984-10-26

Revised: 2007-10-22

**FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)****FLEXIBLE CORD  
(ZJCZ, ZJCZ7)**

Manufacturer: I SHENG ELECTRIC WIRE & CABLE CO LTD  
(153371-001) 52 TIN HWU RD  
TA GANN VILLAGE  
GWAI SAN HSIAN  
TAOYUAN HSIEN 333 TAIWAN

Applicant: SAME AS MANUFACTURER  
(153371-001)

Listee: SAME AS MANUFACTURER  
(153371-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

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This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.



Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations



William R. Carney  
Director  
North American Certification Program

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|   | Construction                              | United States Type                                         | Canadian Type                                    | Section |
|---|-------------------------------------------|------------------------------------------------------------|--------------------------------------------------|---------|
|   | Parallel<br>Cords:<br>Thermoplastic       | SPT-1, SPT-2, SPT-3<br>NISPT-1, NISPT-2,<br>SPT-1W, SPT-2W | SPT-1, SPT-2, SPT-3                              | 1       |
| * | Jacketed<br>Cords:<br>Thermoplastic       | SVT<br>SJT, SJTW, SJTOW<br>ST, STW, SJTO, STO,<br>STOW     | SVT<br>SJT, SJTW,<br>ST, STW, SJTO, STO,<br>STOW | 2       |
|   | Decorative -<br>Lighting<br>Cords & Wires | XTW, CXTW                                                  | N/A                                              | 3       |
|   | Miscellaneous                             | Clock Cord                                                 | N/A                                              | 4       |
|   | Christmas<br>Tree Cord:                   | N/A                                                        | TX, PXT                                          | 5       |
|   | Range & Dryer<br>Cord                     | SRDT                                                       | DRT                                              | 6       |

N/A - Not Applicable



File E88265

Vol 2

Issued: 1998-10-12

Revised: 2007-07-10

FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

FLEXIBLE CORD  
(ZJCZ, ZJCZ7)

Manufacturer: I SHENG MFG (SONG GANG) FACTORY  
(628100-001) TANG XIA YONG RD  
SONG GANG TOWN  
BAO'AN  
SHENZHEN,  
GUANGDONG 518105 CHINA

Applicant: I SHENG ELECTRIC WIRE & CABLE CO LTD  
(153371-001) 52 TIN HWU RD  
TA GANN VILLAGE  
GWAH SAN HSIAN  
TAOYUAN HSIEN 333 TAIWAN

Listee: SAME AS APPLICANT  
(153371-001)

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Underwriters Laboratories Inc.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

William R. Carney  
Director  
North American Certification Program



LISTEE'S IDENTIFICATION:

Surface printing of Listee's name or "E88265" on surface of the insulation or jacket.

Manufacturer Identification - The manufacturers listed below must be identified by using the following codes after the Listee identification as noted above (ex. "E88265-C", where "-C" is the factory identification code). If the factory is the same as the Listee's, no code is required.

| Factory Location                                                                                                    | Factory Identification Code |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------|
| I-SHENG MFG (SONG GANG) FACTORY<br>TANG XIA YONG RD<br>SONG GANG TOWN<br>SHENZHEN, BAO'AN<br>GUANGDONG 518105 CHINA | "C"                         |

TESTS TO BE CONDUCTED WHILE IN PROCESS:

As described in the Standard for Flexible Cord and Fixture Wire, UL 62.

COMPOUND IDENTIFICATION WHILE IN PROCESS:

While in the process of manufacture, prior to the application of labels, the cables described in this Procedure shall be identified with a tag or shop order or similar means so that the UL Representative can determine what compound has been used for insulation and jacket. Either a factory code available to the representative or the actual compound designation may be used.

INDEX

| <u>Construction</u>                     | <u>United States Type</u>               | <u>Canadian Type</u>      | <u>Section</u> |
|-----------------------------------------|-----------------------------------------|---------------------------|----------------|
| Decorative Lighting<br>Cords and Wires: | XTW, CXTW                               | N/A                       | 1              |
| Parallel Cords:<br>Thermoplastic        | SPT-1, SPT-2, SPT-3<br>NISPT-1, NISPT-2 | SPT-1, SPT-2, SPT-3       | 2              |
| Jacketed Cords:<br>Thermoplastic        | SVT, SJT, SJTW, ST<br>STW               | SVT, SJT, SJTW, ST<br>STW | 3              |
| * Range & Dryer Cord                    | SRDT                                    | DRT                       | 4              |



File E88265

Vol 4

Issued: 2004-10-01

Revised: 2007-07-10

FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

FLEXIBLE CORD  
(ZJCZ, ZJCZ7)

Manufacturer: I SHENG ELECTRONICS (KUNSHAN) CO LTD  
(628100-003) KUNSHAN DEVELOPMENT ZONE  
888 TAI SHAN RD  
KUNSHAN JIANGSU CHINA

Applicant: I SHENG ELECTRIC WIRE & CABLE CO LTD  
(153371-001) 52 TIN HWU RD  
TA GANN VILLAGE  
GWAI SAN HSIAN  
TAOYUAN HSIEN 333 TAIWAN

Listee: SAME AS APPLICANT  
(153371-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

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Underwriters Laboratories Inc.

A handwritten signature in black ink, appearing to read 'Stephen Hewson'.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

A handwritten signature in black ink, appearing to read 'William R. Carney'.

William R. Carney  
Director  
North American Certification Program



## LISTEE'S IDENTIFICATION:

Listee's name or File number "E88265" surface marked or indent printed.

Manufacturer Identification - The manufacturers listed below must be identified by using the following codes after the Listee identification as noted above (ex. "E88265-^", where "-^" is the factory identification code). If the factory is the same as the Listee's, no code is required.

| Location                                                                                                          | Factory<br>Identification Code |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------|
| I SHENG <b>ELECTRONICS (KUNSHAN) CO LTD</b><br>KUNSHAN DEVELOPMENT ZONE<br>888 TAI SHAN RD<br>KUNSHAN, JIANGSU CN | "K"                            |

## COMPOUND IDENTIFICATION WHILE IN PROCESS:

While in the process of manufacture, prior to the application of labels, the cables described in this Procedure shall be identified with a tag or shop order or similar means so that the UL Representative can determine what compound has been used for insulation and jacket. Either a factory code available to the representative or the actual compound designation may be used.

## SURFACE MARKINGS:

For products meeting the requirements in this procedure, both the UL Logo or UL in parenthesis and the Canadian UL Logo or c (UL) shall appear in surface print legend. The U.S. surface print legend shall appear first, followed by the Canadian surface print legend. The two legends shall be separated by an "or," a dash, a wide space or other acceptable means. All surface print markings are in accordance with UL 62, and any requirements specified in the descriptive sections of the Procedure.



## INDEX

| Construction                     | United States Type                                                        | Canadian Type                                                             | Section |
|----------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------|
| Heater Cord                      | HPN                                                                       | HPN                                                                       | 1       |
| Jacketed Cords:<br>Thermoplastic | SVT, SJT, ST,<br>SJTW, STW                                                | SVT, SJT, ST<br>SJTW, STW                                                 | 2       |
| Parallel Cords:<br>Thermoplastic | SPT-1, SPT-2, SPT-3<br>SPT-1W, SPT-2W<br>NISPT-1, NISPT-2                 | SPT-1, SPT-2, SPT-3                                                       | 3       |
| Jacketed Cords:<br>Thermoset     | S, SO, SOO, SOW,<br>S00W, SJ, SJO, SJ00,<br>SJOW, SJ00W, SV, SV0,<br>SV00 | S, SO, SOO, SOW,<br>S00W, SJ, SJO, SJ00,<br>SJOW, SJ00W, SV, SV0,<br>SV00 | 4       |

## DESCRIPTION

### PRODUCT COVERED:

\* USL: PVC Insulated Parallel Cords, Types SPT-1, SPT-2, SPT-3, SPT-1W, SPT-2W, NISPT-1, and NISPT-2.

CNL: PVC Insulated Parallel Cords, Types SPT-1, SPT-2, and SPT-3.

### ENGINEERING CONSIDERATIONS (NOT FOR UL FIELD REPRESENTATIVE'S USE):

USL indicates investigation to United States Standard for UL 62, for Flexible Cords and Fixture Wires.

CNL indicates investigation to Canadian Standard C22.2 No. 49-92 for Flexible Cords and Cables.

### INTEGRAL/NONINTEGRAL INSULATION:

USL: Class 2.9 PVC (60°C), Class 2.29 PVC (75°C), Class 2.22 PVC (90°C), and Class 2.11 PVC (105°C).

CNL: Class 8 PVC (60°C) or Class 11 PVC (105°C).

\* Outdoor use cords, Types SPT-1W and SPT-2W must use a Recognized Component - Polymeric Materials for Use in Wire and Cable (QMTT2) PVC insulation material rated for 60°C water resistance and 720 hr. sunlight resistance.

### NONINTEGRAL JACKET:

USL: Class 1.7 PVC (60°C), Class 1.19 PVC (75°C), Class 1.16 PVC (90°C), and Class 1.8 PVC (105°C).

CNL: Class 1.5 PVC (60°C) or Class 1.8 PVC (105°C).

### CONSTRUCTION DETAILS:

USL: These cords are constructed in accordance with the latest edition of Underwriters Laboratories Inc. Standard for Flexible Cord and Fixture Wire, UL 62 and the Reference Standard for Electrical Wires, Cables and Flexible Cords, UL 1581.

CNL: These cords are constructed in accordance with the latest edition of Canadian Standard for Flexible Cords and Cables, C22.2, No. 49 for Flexible Cords and Cables. Integral and Nonintegral Constructions.



DESCRIPTIONPRODUCT COVERED:

- \* USL: PVC Jacketed Cords, Types SVT, SJT, ST, SJTW, SJTOW, STW, rated 60, 75, 90, or 105°C.
- \* CNL: PVC Jacketed Cords, Types SVT, SJT, ST, SJTW, SJTOW, STW, rated 60 or 105°C.

ENGINEERING CONSIDERATIONS: (Not For UL Representative's Use)

USL indicates investigation to United States Standard UL 62.

CNL indicates investigation to Canadian Standard C22.2 No. 49.

- \* CONSTRUCTION DETAILS:

These cords are constructed in accordance with the Standard for Flexible Cord and Fixture Wire, UL 62, and the following:

Insulation on "W" Types - Any Recognized Component (QMTT2) PVC compound acceptable for use on either wet location Flexible Cord or on an NEC Type with a "W" in its Type letter designation.

Jacket on "W" Types - Any Recognized Component (QMTT2) PVC 720 hour sunlight resistant compound.

- \* MARKING:

These cords are marked in accordance with the Standard for Flexible Cord and Fixture Wire, UL 62. In addition, CNL Types must be marked "FT2" unless they comply with the FT1 flame test in which case they are marked "FT1".

CADLS

DESCRIPTIONPRODUCT COVERED:

Type XTW employing Class 2.11 insulation.

Type CXTW; single conductor or twisted pair construction, employing Class 2.11 insulation.

CONSTRUCTION DETAILS:

These cords are constructed in accordance with the latest edition of UL 62, Standard for Flexible Cord and Fixture Wire.

Insulation - Any Recognized Component (QMTT2) PVC Flexible Cord Wet-Location compound suitable for Type XTW or Type CXTW.

MARKING:

These cords are marked "VW-1" in accordance with the Standard for Flexible Cords and Fixture Wire, UL62.

\*

CADLS

D E S C R I P T I O N

PRODUCT COVERED:

Clock Cord.

CONSTRUCTION:

Parallel only.

INSULATION:

\* Class 2.9 PVC, 60°C.

CONDUCTOR SIZE:

20 AWG.

MARKINGS:

Tags must be marked "Clock Cord." Cords may be surface printed "Clock Cord." Other marking requirements per UL 62.

D E S C R I P T I O N

PRODUCT COVERED:

CNL: Christmas Tree Cord - Types TX and PXT,  
rated 60°C.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S  
USE):

CNL indicates investigations to Canadian Standard  
C22.2, No. 49-92, for Flexible Cords and Cables.

CONSTRUCTION DETAILS:

General - Constructed in accordance with the latest  
edition of CSA C22.2 No. 49, Standard for Flexible Cord.

Conductor - No. 20 AWG in accordance with the standard.

Insulation - Class 8, PVC, 60°C, minimum average  
thickness 27 mils.

Flame Rating - Must be marked "FT2" if not marked  
"FT1". May be marked "FT1" when complies with the FT1 Flame  
Test.

Marking - In accordance with the Standard, FUII Pages,  
and Section General.

DESCRIPTIONPRODUCT COVERED:

USL: PVC Jacketed Range & Dryer Cord, Type SRDT, Rated 60°C or 90°C.

CNL: PVC Jacketed Range & Dryer Cord, Type DRT, Rated 60°C.

ENGINEERING CONSIDERATIONS: (Not For UL Field Representative's Use)

USL indicates investigations to United States Standard UL 62, for Flexible Cords and Fixture Wires.

CNL indicates investigations to Canadian Standard C22.2, No. 49 for Flexible Cords and Cables.

CONSTRUCTION DETAILS:

USL: These cords are constructed in accordance with the latest edition of Underwriters Laboratories Inc. Standard for Flexible Cord and Fixture Wire, UL 62 and the Reference Standard for Electrical Wires, Cables and Flexible Cords, UL1581.

CNL: These cords are constructed in accordance with the latest edition of Canadian Standard for Flexible Cord and Cables, C22.2 No. 49.

INSULATION:

USL: Class 2.9 or 2.22 PVC

CNL: Class 2.9 PVC

JACKET:

USL: Class 1.7 or 1.16 PVC

CNL: Class 1.7



FLAME RATING MARKING:

USL/CNL: May be marked "VW-1" or "FT1" when complies with Flame Test. Must be marked "FT2" if not marked "FT1."



the standard in safety

Underwriters  
Laboratories

File E315167

Vol 1

Issued: 2007-09-13

Revised:

FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

FLEXIBLE CORD  
(ZJCZ, ZJCZ7)

Manufacturer: I SHENG MFG (SONG GANG) FACTORY  
(628100-001) TANG XIA YONG RD  
SONG GANG TOWN  
BAO'AN  
SHENZHEN,  
GUANGDONG 518105 CHINA

Applicant: SAME AS MANUFACTURER  
(628100-001)

Listee: SAME AS MANUFACTURER  
(628100-001)

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Underwriters Laboratories Inc.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

William R. Carney  
Director  
North American Certification Program

INDEX

| Construction                     | United States<br>Type                       | Canadian Type                               | Section |
|----------------------------------|---------------------------------------------|---------------------------------------------|---------|
| Jacketed Cords,<br>Thermoplastic | SVT, SJT, ST                                | SVT, SJT, ST                                | 1       |
| Parallel Cords,<br>Thermoplastic | SPT-1, SPT-2,<br>SPT-3, NISPT-1,<br>NISPT-2 | SPT-1, SPT-2,<br>SPT-3, NISPT-1,<br>NISPT-2 | 2       |
| Range and Dryer Cords            | SRDT                                        | DRT                                         | 3       |

N/A - Not Applicable



the standard in safety

Underwriters  
Laboratories

File E314513

Vol 1

Issued: 2007-09-07

Revised:

FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

FLEXIBLE CORD  
(ZJCZ, ZJCZ7)

Manufacturer: I SHENG ELECTRONICS (KUNSHAN) CO LTD  
(628100-003) KUNSHAN DEVELOPMENT ZONE  
888 TAI SHAN RD  
KUNSHAN JIANGSU CHINA

Applicant: SAME AS MANUFACTURER  
(628100-003)

Listee: SAME AS MANUFACTURER  
(628100-003)

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Underwriters Laboratories Inc.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

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Director  
North American Certification Program

INDEX

| Construction                     | United States Type                                                           | Canadian Type                                                                | Section |
|----------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|
| Jacketed Cords,<br>Thermoplastic | SVT, SJT, ST                                                                 | SVT, SJT, ST                                                                 | 1       |
| Parallel Cords,<br>Thermoplastic | SPT-1, SPT-2,<br>SPT-3, NISPT-1,<br>NISPT-2                                  | SPT-1, SPT-2,<br>SPT-3, NISPT-1,<br>NISPT-2                                  | 2       |
| Jacketed Cords,<br>Thermoset     | S, SO, SOO, SOW,<br>SOOW, SJ, SJ0,<br>SJ00, SJ0W,<br>SJ00W, SV, SV0,<br>SV00 | S, SO, SOO, SOW,<br>SOOW, SJ, SJ0,<br>SJ00, SJ0W,<br>SJ00W, SV, SV0,<br>SV00 | 3       |
| Heater Cords                     | HPN                                                                          | HPN                                                                          | 4       |

N/A - Not Applicable



## CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as “CSA Certified” and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 081924\_0\_000  
Class No: 5831 01 WIRES Flexible Cord

### SUBMITTOR

4501124 I-Sheng Electric Wire & Cable Co.,  
Ltd.  
No 52 Tin Hwu Rd  
Ta Gann Village  
Gwai San Hsian  
Taoyuan Hsien, 33334  
Taiwan

### FACTORIES

4501124 I-Sheng Electric Wire & Cable Co.,  
Ltd.  
No 52 Tin Hwu Rd  
Ta Gann Village  
Gwai San Hsian  
Taoyuan Hsien, 33334  
Taiwan

4651426 I-Sheng Electric Wire & Cable Co.,  
Ltd.  
Tang Xia Yong Rd  
Songgang Town  
Bao'An  
Shenzhen, Guangdong 518105  
China

4709892 I-Sheng Electronics (Kunshan)  
Co., Ltd.  
No. 888, Tai Shan Rd.  
Kunshan Development Zone  
Kun Shan City, Jiang Su Province, Jiangsu  
China

October 31, 2014 (Replaces: November 8, 2010)

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 49-14:

| Type                         | Rated Volt<br>(V) | Size of<br>Conductors<br>(AWG*) | No of<br>Conductors | Insul.<br>Type | Jacket<br>Type | Notes        |
|------------------------------|-------------------|---------------------------------|---------------------|----------------|----------------|--------------|
| • Temperature rating 60C:    |                   |                                 |                     |                |                |              |
| SPT-1                        | 300               | 20,18                           | 2,3                 | PVC            | -              | 1,2,3,7,9    |
| NISPT-1                      | 300               | 20,18                           | 2,3                 | PVC            | PVC            | 1,2,6,7,9    |
| SPT-2                        | 300               | 18,16                           | 2,3                 | PVC            | -              | 1,2,3,7,9    |
| NISPT-2                      | 300               | 18,16                           | 2,3                 | PVC            | PVC            | 1,2,6,7,9    |
| SPT-3                        | 300               | 18-10                           | 2,3                 | PVC            | -              | 1, 2,7,9     |
| SVT                          | 300               | 18,17,16                        | 2,3                 | PVC            | PVC            | 1,2,4,7,9    |
| SJT                          | 300               | 18-10                           | 2-6                 | PVC            | PVC            | 1,2,4,7,9    |
| SJTO                         | 300               | 18-10                           | 2-6                 | PVC            | PVC            | 1,2,4,10     |
| SJTW,<br>SJTOW               | 300               | 18-10                           | 2-6                 | PVC            | PVC            | 1,2,4,10, 11 |
| ST, STO                      | 600               | 18-2                            | 2 or more           | PVC            | PVC            | 1,2,4,7,9    |
| STW, STOW                    | 600               | 18-2                            | 2 or more           | PVC            | PVC            | 1,2,4,10,11  |
| PXT                          | 125               | 20                              | 2                   | PVC            | -              | 1,2,7        |
| PXWT                         | 300               | 18, 16                          | 2                   | PVC            | -              | 1,2,5,7      |
| S, SO, SOO                   | 600               | 18-2                            | 2 or more           | EP             | CPE            | 1,2,7        |
| SOW, SOOW                    | 600               | 18-2                            | 2 or more           | EP             | CPE            | 1,2,7        |
| SJ, SJO,<br>SJOO             | 300               | 18-10                           | 2-6                 | EP             | CPE            | 1,2,7        |
| SJOW,<br>SJOOW               | 300               | 18-10                           | 2-6                 | EP             | CPE            | 1,2,7        |
| SV, SVO,<br>SVOO             | 300               | 18,17,16                        | 2 or 3              | EP             | CPE            | 1,2,7        |
| SPT-1                        | 300               | 20, 18                          | 2,3                 | TPE            | -              | 1,2,7,9      |
| NISPT-1                      | 300               | 20, 18                          | 2,3                 | TPE            | TPE            | 1,2,7,9      |
| SPT-2                        | 300               | 18, 16                          | 2,3                 | TPE            | -              | 1,2,7,9      |
| NISPT-2                      | 300               | 18, 16                          | 2,3                 | TPE            | TPE            | 1,2,7,9      |
| SPT-3                        | 300               | 18-10                           | 2,3                 | TPE            | -              | 1,2,7,9      |
| SVT, SVTO                    | 300               | 18,17,16                        | 2,3                 | TPE            | TPE            | 1,2,7,9      |
| SJT, SJTO,<br>SJTW,<br>SJTOW | 300               | 18-10                           | 2-6                 | TPE            | TPE            | 1,2,7,9      |
| ST, STO,<br>STW, STOW        | 600               | 18-2                            | 2 or more           | TPE            | TPE            | 1,2,7,9      |

- Temperature rating 75C:

|                  |     |            |           |     |     |                |
|------------------|-----|------------|-----------|-----|-----|----------------|
| SPT-1            | 300 | 20, 18     | 2, 3      | PVC | -   | 1,2,3,7,9      |
| NISPT-1          | 300 | 20, 18     | 2, 3      | PVC | PVC | 1,2,6,7,9      |
| SPT-2            | 300 | 18, 16     | 2, 3      | PVC | -   | 1,2,3,7,9      |
| NISPT-2          | 300 | 18, 16     | 2, 3      | PVC | PVC | 1,2,6,7,9      |
| SPT-3            | 300 | 18-10      | 2, 3      | PVC | -   | 1,2,7,9        |
| SVT              | 300 | 18, 17, 16 | 2, 3      | PVC | PVC | 1,2,4,7,9      |
| SJT              | 300 | 18-10      | 2-6       | PVC | PVC | 1,2,4,7,9      |
| SJTO             | 300 | 18-10      | 2-6       | PVC | PVC | 1,2,4,10       |
| SJTW,<br>SJTOW   | 300 | 18-10      | 2-6       | PVC | PVC | 1,2,4,10,11    |
| ST, STO          | 600 | 18-2       | 2 or more | PVC | PVC | 1, 2, 4, 7,9   |
| STW, STOW        | 600 | 18-2       | 2 or more | PVC | PVC | 1, 2, 4, 10,11 |
| S, SO, SOO       | 600 | 18-2       | 2 or more | EP  | CPE | 1,2,7          |
| SOW,<br>SOOW     | 600 | 18-2       | 2 or more | EP  | CPE | 1,2,7          |
| SJ, SJO,<br>SJOO | 300 | 18-10      | 2-6       | EP  | CPE | 1,2,7          |
| SJOW,<br>SJOOOW  | 300 | 18-10      | 2-6       | EP  | CPE | 1,2,7          |

- Temperature rating 90C:

|                |     |            |           |     |     |                 |
|----------------|-----|------------|-----------|-----|-----|-----------------|
| SPT-1          | 300 | 20, 18     | 2, 3      | PVC | -   | 1, 2, 3,7,9     |
| NISPT-1        | 300 | 20, 18     | 2, 3      | PVC | PVC | 1, 2, 6,7,9     |
| SPT-2          | 300 | 18, 16     | 2, 3      | PVC | -   | 1, 2, 3,7,9     |
| NISPT-2        | 300 | 18, 16     | 2, 3      | PVC | PVC | 1, 2, 6,7,9     |
| SPT-3          | 300 | 18-10      | 2, 3      | PVC | -   | 1, 2,7,9        |
| SVT            | 300 | 18, 17, 16 | 2, 3      | PVC | PVC | 1, 2, 4, 7,9    |
| SJT            | 300 | 18-10      | 2-6       | PVC | PVC | 1, 2, 4, 7,9    |
| SJTO           | 300 | 18-10      | 2-6       | PVC | PVC | 1, 2, 4, 10     |
| SJTW,<br>SJTOW | 300 | 18-10      | 2-6       | PVC | PVC | 1, 2, 4, 10, 11 |
| ST,STO         | 600 | 18-2       | 2 or more | PVC | PVC | 1, 2, 4, 7,9    |
| STW, STOW      | 600 | 18-2       | 2 or more | PVC | PVC | 1, 2, 4, 10, 11 |
| HPN            | 300 | 14         | 2         | CPE | -   | 1,2             |
| HPN            | 300 | 16, 18     | 2 or 3    | CPE | -   | 1, 2, 8         |
| S, SO, SOO     | 600 | 18-2       | 2 or more | EP  | CPE | 1,2,7           |
| SOW,<br>SOOW   | 600 | 18-2       | 2 or more | EP  | CPE | 1,2,7           |
| SJ, SJO,       |     |            |           | EP  | CPE | 1,2,7           |



|                              |     |          |           |     |     |         |
|------------------------------|-----|----------|-----------|-----|-----|---------|
| SJOO                         | 300 | 18-10    | 2-6       |     |     |         |
| SJOW,<br>SJOOW               | 300 | 18-10    | 2-6       | EP  | CPE | 1,2,7   |
| SPT-1                        | 300 | 20, 18   | 2,3       | TPE | -   | 1,2,7,9 |
| NISPT-1                      | 300 | 20, 18   | 2,3       | TPE | TPE | 1,2,7,9 |
| SPT-2                        | 300 | 18, 16   | 2,3       | TPE | -   | 1,2,7,9 |
| NISPT-2                      | 300 | 18, 16   | 2,3       | TPE | TPE | 1,2,7,9 |
| SPT-3                        | 300 | 18-10    | 2,3       | TPE | -   | 1,2,7,9 |
| SVT, SVTO                    | 300 | 18,17,16 | 2,3       | TPE | TPE | 1,2,7,9 |
| SJT, SJTO,<br>SJTW,<br>SJTOW | 300 | 18-10    | 2-6       | TPE | TPE | 1,2,7,9 |
| ST, STO,<br>STW, STOW        | 600 | 18-2     | 2 or more | TPE | TPE | 1,2,7,9 |

• Temperature rating 105C:

|                   |     |            |           |     |     |             |
|-------------------|-----|------------|-----------|-----|-----|-------------|
| SPT-1             | 300 | 20,18      | 2,3       | PVC | -   | 1,2,3,7,9   |
| NISPT-1           | 300 | 20,18      | 2,3       | PVC | PVC | 1,2,6,7,9   |
| SPT-2             | 300 | 18,16      | 2,3       | PVC | -   | 1,2,3,7,9   |
| NISPT-2           | 300 | 18,16      | 2,3       | PVC | PVC | 1,2,6,7,9   |
| SPT-3             | 300 | 18-10      | 2,3       | PVC | -   | 1, 2,7,9    |
| SVT               | 300 | 18,17,16   | 2,3       | PVC | PVC | 1,2,4,7,9   |
| SJT               | 300 | 18-10      | 2-6       | PVC | PVC | 1,2,4,7,9   |
| SJTO              | 300 | 18-10      | 2-6       | PVC | PVC | 1,2,4,10    |
| SJTW,<br>SJTOW    | 300 | 18-10      | 2 -6      | PVC | PVC | 1,2,4,10,11 |
| ST,STO            | 600 | 18-2       | 2 or more | PVC | PVC | 1,2,4,7,9   |
| STW, STOW         | 600 | 18-2       | 2 or more | PVC | PVC | 1,2,4,10,11 |
| HPN               | 300 | 14         | 2         | CPE | -   | 1,2         |
| HPN               | 300 | 16, 18     | 2 or 3    | CPE | -   | 1,2,8       |
| S, SO, SOO        | 600 | 18-2       | 2 or more | EP  | CPE | 1,2,7       |
| SOW, SOOW         | 600 | 18-2       | 2 or more | EP  | CPE | 1,2,7       |
| SJ, SJO,<br>SJOO, | 300 | 18-10      | 2-6       | EP  | CPE | 1,2,7       |
| SJOW,<br>SJOOW    | 300 | 18-10      | 2-6       | EP  | CPE | 1,2,7       |
| SV, SVO,<br>SVOO  | 300 | 16, 17, 18 | 2 or 3    | EP  | CPE | 1,2,7       |
| SPT-1             | 300 | 20, 18     | 2,3       | TPE | -   | 1,2,7,9     |
| NISPT-1           | 300 | 20, 18     | 2,3       | TPE | TPE | 1,2,7,9     |
| SPT-2             | 300 | 18, 16     | 2,3       | TPE | -   | 1,2,7,9     |
| NISPT-2           | 300 | 18, 16     | 2,3       | TPE | TPE | 1,2,7,9     |

|                              |     |          |           |     |     |         |
|------------------------------|-----|----------|-----------|-----|-----|---------|
| SPT-3                        | 300 | 18-10    | 2,3       | TPE | -   | 1,2,7,9 |
| SVT, SVTO                    | 300 | 18,17,16 | 2,3       | TPE | TPE | 1,2,7,9 |
| SJT, SJTO,<br>SJTW,<br>SJTOW | 300 | 18-10    | 2-6       | TPE | TPE | 1,2,7,9 |
| ST, STO,<br>STW, STOW        | 600 | 18-2     | 2 or more | TPE | TPE | 1,2,7,9 |

\*mm<sup>2</sup> sizes also apply.

Notes:

1. In all colours except for clear and translucent.
2. Flame classification - FT2.
3. Includes two-conductor constructions in clear or translucent.
4. Optional shielding.
5. Low temperature rating: -40C.
6. Non-integral construction.
7. Flame classification - FT1.
8. HPN with 16 or 18 AWG, 3 conductor, EP ground conductor insulation.
9. Flame Classification - VW-1.
10. May have flame classifications FT1, VW-1.
11. May have low temperature rating: -40C.

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# Mouser Electronics

Authorized Distributor

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