

## PVC FLEXIBLE CORD

### 1.1 SCOPE

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

**Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V**

### 1.2 CONSTRUCTION

|            |  |
|------------|--|
| CONDUCTOR  | ANNEALED COPPER WIRE   |
| INSULATION | PVC ( BLUE, BROWN, YELLOW/GREEN )<br>MEAN VALUE OF THICKNESS : Min.0.6mm |
| SHEATH     | PVC<br>MEAN VALUE OF THICKNESS : Min.0.8mm                               |

| ITEM                                |              | UNIT            | SPEC.VALUE        |
|-------------------------------------|--------------|-----------------|-------------------|
| RATED VOLTAGE ( U <sub>0</sub> /U ) |              | V/V             | 300/500           |
| NO.OF CORE                          |              | NO.             | 3                 |
| CONDUCTOR                           | NOMINAL AREA | mm <sup>2</sup> | 0.75              |
|                                     | CONSTRUCTION | NO/mm           | 32/0.18 or 24/0.2 |
| THICKNESS OF INSULATION             |              | mm              | 0.6               |
| THICKNESS OF SHEATH                 |              | mm              | 0.8               |
| OVERALL DIAMETRT(APPROX.)           |              | mm              | 6.8±0.2           |
| CONDUCTOR RESISTANCE ( AT20°C )     |              | Ohm/km          | 26.0 ( Max )      |
| TEST VOLTAGE                        |              | V/min           | 2000/15           |

### 1.3 SOURCE FOR FLEXIBLE CORD

- RHYTHM
- LIAN DUNG
- I-SHENG

#### 1.4 PHYSICAL CHARACTERISTICS OF INSULATION AND SHEATH

| ITEM       |  | UNIT             | SPEC.VALUE           |                                  |
|------------|--|------------------|----------------------|----------------------------------|
| INSULATION | ORIGINAL                               | TENSILE STRENGTH | kgf/ mm <sup>2</sup> | Min.1.3                          |
|            |  | ELONGATION       | %                    | Min.150                          |
|            | AFTER AGING<br>80±2°C FOR<br>168 HOURS | TENSILE STRENGTH | %                    | VARIATION FROM ORIGINAL VALUE 20 |
|            |  | ELONGATION       | %                    | VARIATION FROM ORIGINAL VALUE 20 |
| SHEATH     | ORIGINAL                               | TENSILE STRENGTH | kgf/ mm <sup>2</sup> | Min.1.3                          |
|            |  | ELONGATION       | %                    | Min.150                          |
|            | AFTER AGING<br>80±2°C FOR<br>168 HOURS | TENSILE STRENGTH | %                    | VARIATION FORM ORIGINAL VALUE 20 |
|            |  | ELONGATION       | %                    | VARIATION FROM ORIGINAL VALUE 20 |

#### 1.5 COLD BEND

No crack on the surface of cord sample which is wind round 6 turns in mandrel of 4-5xØd (Ød : wire diameter) subjected to a temperature of -15±2°C for 4hours.

#### 1.6 HEATBEND

No crack on the surface of a sample which is wind round 6 turns on mandrel of 9mm diameter subjected to a temperature of 150°C±2°C for 1hour.

#### 1.7 DEFORMATION RESISTANCE AT HIGHER TEMPERATURE TEST

The test temperature is 70°C±2°C for 4hours.The test weight is 125g for insulation and 175g for sheath by CEE Test Machine ( pressure foot ) .  
Test result : Thickness variation from original value min.50% .

## 2. PLUG

### 2.1 SCOPE

The plug shall be in accordance with BS1363 : 1995.

( Specification for plugs, switched and unswitched socket-outlets )

### 2.2 CONSTRUCTION

The plug construction shall be in accordance with our Catalogue

NO.LT-327(3A) (HO-100) Assembly Type

### 2.3 CHARACTERISTICS

| NO | TEST ITEM                  | SPEC.VALUE  | TEST RESULTS               |
|----|----------------------------|---|----------------------------|
| 1. | Moisture resistance test   | Samples are kept in a humidity cabinet containing air with a relative humidity between 91 to 95% and a temperature of 20-30°C for a duration of 48 hours  | No damage                  |
| 2. | Electric strength test     | A voltage of A.C.2000V is applied for 2-3 sec after the moisture resistance test.   | No flashover and breakdown |
| 3. | Insulation resistance test | This test is measured with a D. C. 500V after the moisture resistance test.   | Min. 5 M Ohm               |
| 4. | Flexing test               | The sample shall be loaded with a weight of 10N(1.02kg) and the oscillating number shall be moved backward and forward through an angle of 90°(45°on either side of the vertical) the number of flexing being 10,000.The sample is turned through 90°after 5000 flexings. | No damage                  |
| 5. | Tumbling test              | The samples are dropped from a height of 50cm onto a plywood base ( 10mm thick ) for a total of 1000 times.   | No damage                  |

|    |                       |   |           |
|----|-----------------------|---|-----------|
| 6. | Cold test             | The samples are kept in a refrigerator at a temperature of $-15\pm 2^{\circ}\text{C}$ , for 1 hour.   | No damage |
| 7. | Abrasion test         | The pin of sample slopes downwards at angle of $10^{\circ}$ to the horizontal. The sample is loaded with a force of 4N on the pin. The number of movement is 2000, and the length of pin subjected to abrasion is approximately 7mm over the insulating sleeve. | No damage |
| 8. | Heat deformation test | The samples are kept for 1 hour in a heating cabinet at temperature of $70\pm 2^{\circ}\text{C}$ .  | No damage |

### 3 CONNECTOR

#### 3.1 SCOPE

The connector shall be in accordance with BS-4491 、 IEC 320 C13  
(Appliance coupler)

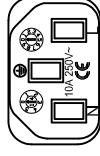
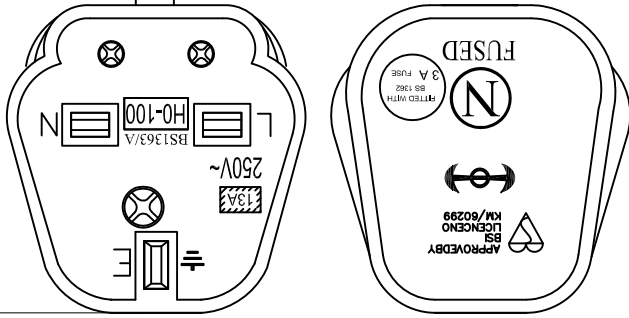
#### 3.2 CONSTRUCTION

The connector construction shall be in accordance with our Catalogue  
NO.LT-501

#### 3.3 CHARACTERISTICS

| NO. | TEST ITEM                  | SPEC. VALUE  | TEST RESULTS               |
|-----|----------------------------|--|----------------------------|
| 1.  | Moisture resistance test   | Samples are kept in a humidity cabinet containing air with a relative humidity between 91 to 95% and a temperature of 20~30°C for a duration of 48 hours.  | No damage                  |
| 2.  | Electric strength test     | A voltage of A.C.2000V is applied for 1 min. after the moisture resistance test.   | No flashover and breakdown |
| 3.  | Insulation resistance test | This test is measured with a D.C.500V after the moisture resistance test.  | Min.5 M Ohm.               |
| 4.  | Flexing test               | The sample shall be loaded with a weight of 10N (1.02kg) and the oscillating number shall be moved backward and forward through an angle of 90°(45° on either side of the vertical) the number of flexing being 20,000. The sample is turned through 90° after 5000 flexing. | No damage                  |
| 5.  | Tumbling test              | The sample are dropped from a height of 50cm onto a plywood base (10mm thick) for a total of 1000 times  | No damage                  |
| 6.  | Cold test                  | The samples are kept in a refrigerator at a temperature of -15±2°C, for 1 hr.  | No damage                  |
| 7.  | Heat deformation test      | The samples are kept for 1 hour in a heating cabinet at temperature of 70±2°C.   | No damage                  |

1500±50



NOTE :

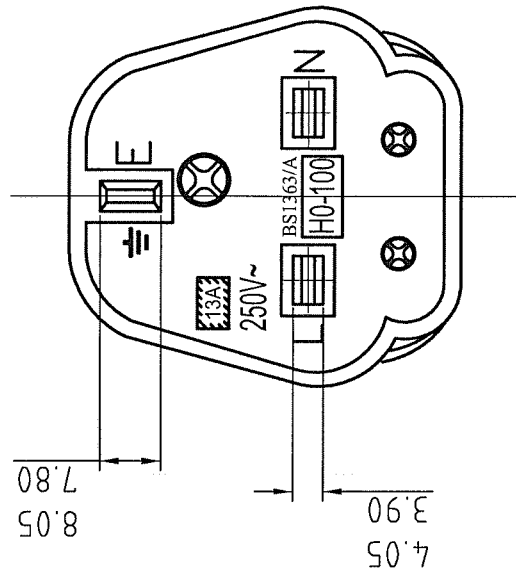
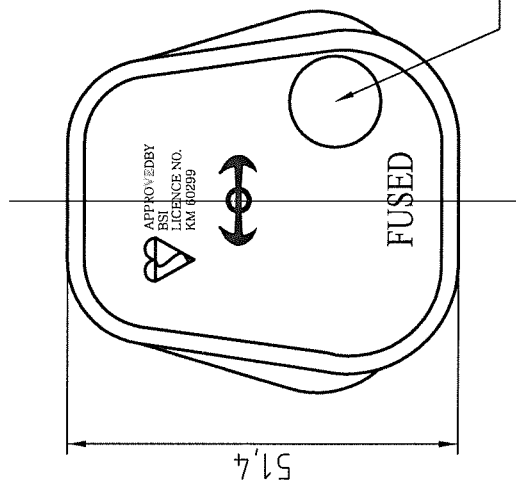
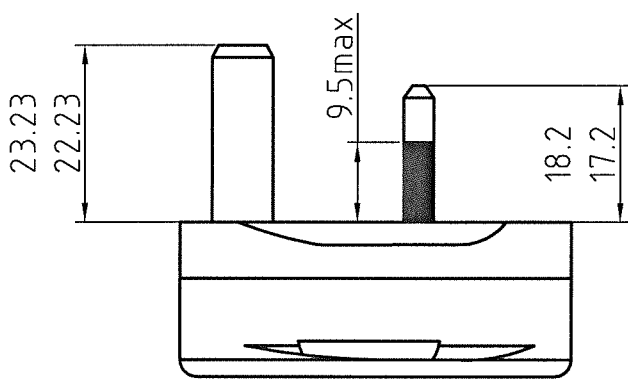
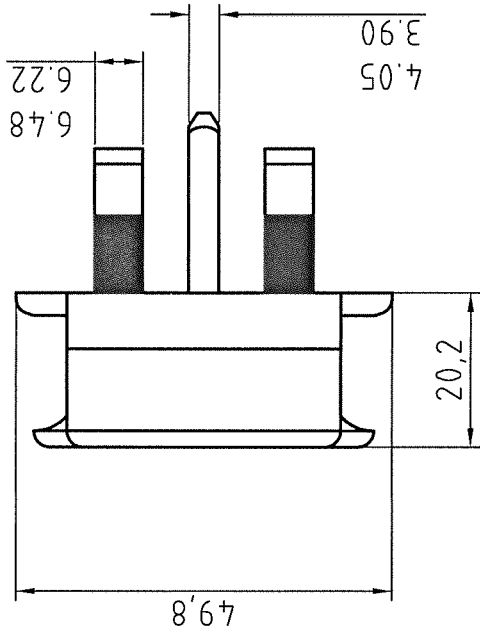
1. PLUG : LT-327(3A) BRITISH TYPE
2. CONNECTOR : LT-501 IEC-320 C13
3. CORD : H05VV-F 3G0.75mm<sup>2</sup> BLK 1.5m
4. APPROVALS : BSI
5. CUSTOMER : TME
6. Supplier for flexible cord : RHYTHM、I-SHENG、LIAN DUNG
7. P/N : SN23-3/07/1.5BK

| PART | DESCRIPTION | DATE | DRAWER  | Quamin | DATE     | TITLE                |
|------|-------------|------|---------|--------|----------|----------------------|
| 3.   |             |      |         |        | 18/03/15 | LT-327+501           |
| 2.   |             |      | APPROVE |        | REV. 1   | Dr.No. 1070332       |
| 1.   |             |      |         | 比例     |          | TOL. ±5mm            |
|      |             |      |         |        |          | ALL DIMENSIONS IN mm |

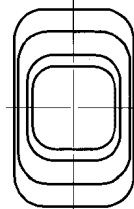
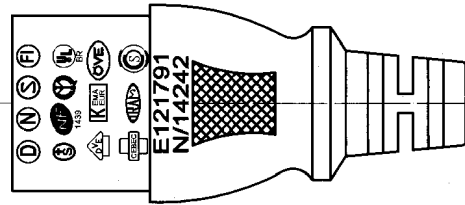
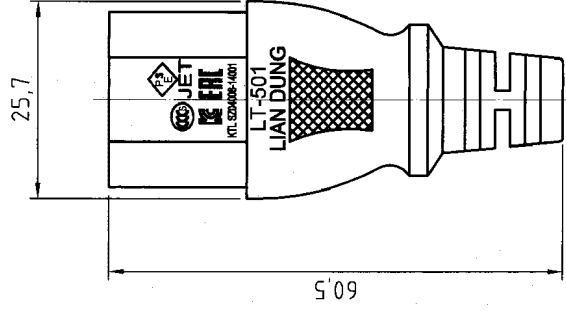
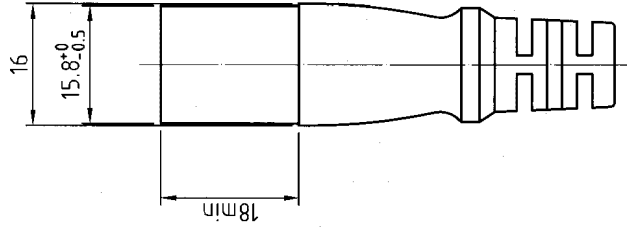
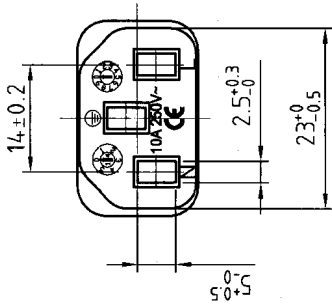

  
**LIAN DUNG**  
 ELECTRIC WIRE MATERIAL CO.,LTD.  
 聯東電線材料股份有限公司

- FITTED WITH  
BS 1362  
3 A FUSE
- FITTED WITH  
BS 1362  
5 A FUSE
- FITTED WITH  
BS 1362  
13 A FUSE

LABLE SCALE 2:1



| PART | DESCRIPTION | DATE | DRAWER  | 葉惠菁 | DATE     | TITLE  | LT-327               |        |
|------|-------------|------|---------|-----|----------|--------|----------------------|--------|
| 1.   |             |      | APPROVE |     | 13/07/10 | Dr.No. | C327001              |        |
| 2.   |             |      |         |     | REV.     | 3      | TOL.                 | ±1.2mm |
| 3.   |             |      |         |     | 比例       | 1:1    | ALL DIMENSIONS IN mm |        |



| PART | DESCRIPTION | DATE | DRAWER  | DATE     | REV. | TITLE                | LT-501-環球 |
|------|-------------|------|---------|----------|------|----------------------|-----------|
| 1.   |             |      | 葉惠菁     | 15/12/08 | 2    | Dr.No.               | C501010   |
| 2.   |             |      | APPROVE |          | 比例   | TOL.                 | ±0.8mm    |
| 3.   |             |      |         |          | 1:1  | ALL DIMENSIONS IN mm |           |


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