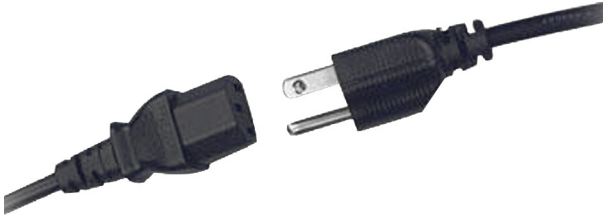


**RoHS  
Compliant**



## Characteristics

### Construction

|           | Type    | Voltage (Max.) | Current (Max.) |
|-----------|---------|----------------|----------------|
| Plug      | TA-3(A) | 125V           | 10A            |
| Connector | TA-5(A) | 125V           | 10A            |
| Cord      | SVT     | 300V           | -              |

### Flexible Cord

Max. Temperature : +105°C  
 Max. Voltage : 300V  
 No. of Conductor : 3

| Conductor |                                  | PVC Insulation         |                             |          | PVC Jacket             |                             |          |
|-----------|----------------------------------|------------------------|-----------------------------|----------|------------------------|-----------------------------|----------|
| AWG/No    | Conductor Resistance test (20°C) | Min. Average Thickness | Min. Thickness at Any Point | O.D. mm  | Min. Average Thickness | Min. Thickness at Any Point | O.D. mm  |
| 18/3      | 22.84Ω/km max.                   | 15 mils<br>0.38mm      | 13 mils<br>0.33mm           | 2.2 ±0.1 | 30 mils<br>0.76mm      | 24 mils<br>0.61mm           | 6.4 ±0.2 |

Conductor : Bare annealed copper wire.  
 Colour : Black

## Properties

### Cord

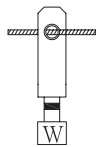
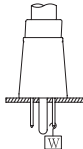
#### Electrical properties:

| Item   | Result   |
|--|--|
| Dielectric-strength test<br>In the air 25±5°C / 1 minute | All specimen shall withstand 1500V for one minute without break down.  |
| Spark test   | All specimen shall withstand 3000V for 0.15 second without break down. |
| Insulation resistance test (20°C)                        | Not less than 2.5MΩ 1000 Feet.   |

**Physical properties of insulation and jacket:**

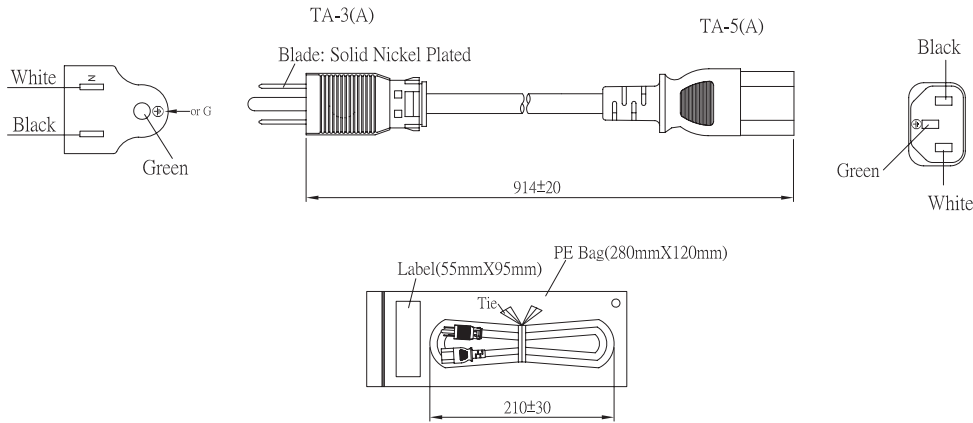
| Item  |  | Result           |   |
|---|--|------------------|---|
| Tensile strength and elongation of insulation | Un-aged  | Tensile-strength | 1500psi or 1.05 kgf/mm <sup>2</sup> min.                                  |
|   |  | Elongation       | 100% min.   |
|   | Aged in a full draft circulation air oven at 136°C / 168 hrs.  | Tensile-strength | Min. acceptable 85% of the result with unaged specimen                    |
|   |  | Elongation       | Min. acceptable 65% of the result with unaged specimen                    |
| Tensile strength and elongation of jacket     | Un-aged  | Tensile-strength | 1500psi or 1.05 kgf/mm <sup>2</sup> min.                                  |
|   |  | Elongation       | 100% min.   |
|   | Aged in a full draft circulation air oven at 136°C/ 168 hrs.   | Tensile-strength | Min. acceptable 85% of the result with unaged specimen                    |
|   |  | Elongation       | Min. acceptable 45% of the result with unaged specimen                    |
| Heat shock test                               | Sample to be tightly wound for six complete turns around a mandrel which have the 20.6mm diameter.<br>Than place in circulating air oven temperature: 121°C ±1°C for one hour.     |                  | The sample shall not show any crack either on the surface or internality. |
| Deformation test                              | Oven temp.: 121°C ±1°C/ 1 hr.<br>weight.: 300g Insulation, 2000g Jacket  |                  | The thickness of sample shall not decrease more than 50%.                 |
| Cold bend test                                | Sample have been subject to a temperature of -20°C ±1°C for 4 hours and then tightly wound, for six complete turns around a mandrel have 19mm diameter while at above temperature. |                  | The sample shall not show any crack on the surface.                       |
| Flame test                                    | FT2: According to UL62, 5.1.5.3  |                  |   |

**Plug Properties**

| Test Items                    | Condition  | Result   |
|-------------------------------|--|--|
| (a) Conductor secureness test | <p>The connector between blade terminal and conductor shall not break under a pull force of 9.lkg for 1 minute.</p>   | Blade can not fall down.   |
| (b) Security of blades        | <p>The attachment plug is supported on a horizontal steel plate with the blades downward through a hole sufficiently large just to permit the blades to pass through it, A weight that exerts 20 pounds force (9.lkgf) is to be supported by each blade in succession.</p>  | A residual displacements of either blade not more than 3/32 inch (2.4mm) measured 2 minutes after the removal of the weight. |



# Detachable Power Supply Cord



## Part Number Table

| Description                                | Part Number |
|--|-------------|
| Detachable Power Supply Cord, Black, 914mm | MCM23-145   |

Dimensions : Millimetres

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