

## **Interconnection Ribbon, Busbar Specification**

### **1, Specified use:**

Interconnection ribbons are used to connect front bus bars of one cell to the corresponding rear bus bars of the next cell to achieve a series connection.

Busbar are installed around the perimeter of the solar panels, PV bus bar connects interconnect ribbon to the junction box.

### **2, Physical Characteristics:**

Ribbon width	1mm-3mm
Ribbon thickness	0.2 mm
Busbar width	5 ~ 6 mm
Busbar thickness	0.1mm-0.5mm
Coating Thickness	10um-40um
Coating tolerance	10%-30%
Lead free solder alloys	Sn 100% Sn 96.5%, Ag3.5%
Leaded	Sn 60%, Pb 40% Sn 62%, Pb 36%, Ag 2%
Copper	
Resistivity	0.02Ω.mm <sup>2</sup> /m
Electrical Conductivity	100%
Purity	99.9%
Thickness	0.2mm

### **3, Mechanical characteristics:**

Tensile strength	160N/mm <sup>2</sup>
Yield strength	70N/mm <sup>2</sup>
Elongation	25%
Fusion temperature of the tin	<220° C
Camber	8mm/ m



**Marking and identification :**

- Customer Order Number
- Customer Name Date
- Customer Part Number
- Specification/Revision Level
- Description of Product
- Size / Quantity.
- Tensile/Yield Strengths
- % Elongation
- Coating Thickness
- Copper Content
- Package Bar Code Labeling
- Data Matrix Code Label
- Net weight and gross weight.
- The name and address of the supplier's company.

**Document to be provided:**

Each delivery batch must be accompanied by the following documents:

- The packing list.
- Current ISO-9001 certificate.
- Product data sheet.
- Certificate of conformity to the order.
- Test reports on the product provided.

**First delivery:**

For the first delivery, the supplier must make available to us a sample according to the specifications mentioned above, the sample provided will be tested and analyzed, in case of rejection the supplier will be informed of the reason for the rejection.