

**0.35\*6.0 PV Ribbon Specifications**

0.35 \*6.0 PV Ribbon P.N. SIJ0012X

**Products Characteristic:**

1. Quality oxygen-free copper base, smelting copper/drawbench/Rolling/annealing/tin coating integrated process, ensure ribbon low resistivity.

2. Customizing many size of copper base, coating and thickness of coating for customers.

3. The thickness of uniform copper base and coating each side ensure the good solderability of up and down two sides.

4. Flexible package type, fine shaft rolling make ribbon on automatic welding machine more convenient, and higher production efficiency.

**Copper base**

	Bus bar
Processing Method	Splitting
Material	OFC TU1
Volume Resistivity (R)	$\leq 12 \text{ m}\Omega/1000\text{mm}$
Hardness / Status	M
Elongation	$\geq 20\%$
Dimension	$0.3 \times 72.6 \text{ mm}$
Tolerance	Thickness: $\pm 0.005 \text{ mm}$ Width: $\pm 0.05 \text{ mm}$

**Soldering**

Type	Curing temperature (°C)	Liquefaction temperature (°C)
Leaded	183	183
	183	190

**Ribbon**

	Bus bar
Exterior	Smooth surface, uniform color, no exposed copper, tin off, dark spots, pinholes, pitting, scratches and other defects
Size	$0.350 \times 6.00 \text{ mm}$
Tolerance	Thickness: $\pm 0.015 \text{ mm}$ Width: $\pm 0.05 \text{ mm}$
Side Camber	$\leq 8/1000 \text{ mm}$
Coating Thickness Tolerances	$\pm 0.005 \text{ mm}$
Tensile Strength	$135 \text{ Mpa} \leq \text{Tensile strength} \leq 250 \text{ Mpa}$
Yield Strength	$\leq 145 \text{ Mpa}$
Elongation	$\geq 20\%$
M resistance	$\leq 12 \text{ m}\Omega/1000\text{mm}$
Fracture rate	$\geq 7 \text{ times}$
Salt spray test	168 h
Double 85 Test	1000 h
Package	shaft-mounted vacuum packing
Weight	Samples of each spool $1 \pm 0.2 \text{ kg}$ , variation in packing by weight should be within $\pm 10\%$ of range.
Storage	PV ribbon should be stored in dry and ventilated room, where should be no acid, alkali, or harmful gas and the indoor relative humidity should not exceed 60%, the shelf life can be up to 6 months since the production date. Such as storage period more than 6 months, it can be used only after qualified inspection.