

## Lead Free Core Wire Data Sheet

Rev: 2011/04/25 Rev.9

### Model: PF629-R

NO	Item	Specification	Standard
1	Appearance	Bright and shiny surface finishes.	
2	Alloy	Sn/Ag0.3/Cu0.7	JIS-Z-3282
3	Melting Point	217~226°C	DSC
4	Flux Content	3.0±1.0 %	JIS-Z-3283
5	Halide Content	Under 0.5%	JIS-Z-3197
6	Gravity	7.3	
7	Spread ability	> 75%	JIS-Z-3197
8	Packaging	0.5、1、5、10kg/Roll	JIS-Z-3283
9	Diameters Tolerances	0.3~0.7±0.05 mm、0.8~3.0±0.1 mm.	JIS-Z-3283
10	Features	Excellent solder joint reliability. Superior joint strength. Excellent thermal & Mechanical fatigue resistance. Low cleaning required after solder joint.	
11	Purpose	For use in applications requiring good activation.	
12	Storage, Handling, and Shelf Life:	Storage must be in a dry, non-corrosive and shine environment. Avoids the oxidant, the acid and the hydrogen peroxide. Shelf life is 2 years from date of manufacture.	

### Physical Properties & Reliability Data

No	Test Item	Test Result	Test Method
1	Copper Mirror Test	PASS	IPC-TM-650, 2.3.32
2	Copper plate Corrosion	PASS	IPC-TM-650, 2.6.15
3	S.I.R Test	PASS 1×10 <sup>10</sup> up	IPC-TM-650, 2.6.3.3
4	Electrochemical migration Test	PASS 1×10 <sup>10</sup> up	IPC-TM-650, 2.6.14.1

### Alloy Composition(%)

Sn	Ag	Cu	Ni	Ge	Bi	Zn	Al	Sb	Fe	As	Cd	Pb	Au	In
REM	0.2~	0.5~	0~	0~	0.06	0.001	0.001	0.05	0.02	0.03	0.002	0.05	0.05	0.1
.	0.4	0.9	0.01	0.01	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX

Patent No.: Japanese Patent No. 3296289 U.S Patent No. 6179935B1. Germany Patent No.19816671C2.

All alloy of SHENMAO' products were to conform to SONY Green Partner and comply RoHS requirement.

### HEADQUARTER: SHENMAO TECHNOLOGY INC.

Add: No.12-1 Gongye 2<sup>nd</sup> Rd., Guanyin industrial area, Taoyuan County 328, Taiwan

Tel: (886)3-416-0177

Fax: (886)3-416-0133

Mail: [sales@shenmao.com](mailto:sales@shenmao.com)

### BRANCHES:

Please refer to our website.

Website: <http://www.shenmao.com>