

Lead Free Solder Wire



DESCRIPTION

High purity lead-free, tin/copper solder is a cost-effective and versatile alternative to conventional lead solder.

DISTINCTIVE FEATURES

- Tin alloy with 0.7% copper, Sn99.3Cu0.7
- Flux cored
- Melting point 227°C
- 22SWG (0.7mm) diameter
- Range of wire diameters and pack sizes

APPLICATIONS

Suitable for all production and prototyping hand soldering. Particularly suited to applications requiring a high degree of activation.

**Sn/
Cu0.7**

**3%
flux**

**IPC-
TM-650**





GENERAL SPECIFICATION

Melting Point	+227°C to +228°C
Gravity	7.3
Spreadability	> 80%



MATERIALS

Alloy	Sn/Cu 0.7
Appearance	Bright & shiny surface finishes
Flux Content	3.0 ± 1.0%
Halide Content	< 0.5%
Alloy Composition	See below

(Sn)	(Ag)	(Cu)	(Ni)	(Zn)	(Al)	(Sb)	(Fe)	(As)	(Bi)	(Cd)	(Pb)
REM.	0.10 MAX	0.5~ 0.9	0.002 MAX	0.001 MAX	0.001 MAX	0.05 MAX	0.02 MAX	0.03 MAX	0.10 MAX	0.002 MAX	0.05 MAX



CERTIFICATION AND STANDARDS

Reliability Tests:		
Test item	Test result	Test method
Copper Mirror Test	Pass	IPC-TM-650, 2.3.32
Copper plate Corrosion	Pass	JIS-Z-3197, 6.6.1
S.I.R Test	PASS 1×10 ⁹ Ω up	IPC-TM-650, 2.6.3.3
Electrochemical migration Test	PASS 1×10 ⁹ Ω up	IPC-TM-650, 2.6.14.1



ENVIRONMENTAL/OPERATING SPECIFICATION

Storage	Must be stored in a dry and non-corrosive environment. Avoid contact with acids and hydrogen peroxide.
Shelf life	2 years from date of manufacture



DIMENSIONS/DRAWINGS

Diameter tolerance	0.3 to 0.6 ± 0.05 mm, 0.8 to 3.0 ± 0.1 mm
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Part Number Units	Wire diameter mm	Pack size
85-6867	0.7	100g Reel
85-6868	0.7	500g Reel
85-6866	1.0	12g Tube
85-6864	1.2	100g Reel
85-6865	1.2	500g Reel



PART NUMBER TABLE

Part Number	EAN	UNSPSC	Country of Origin
85-6867	5053556002009	23271806	Taiwan
85-6868	5053556002016	23271806	Taiwan
85-6866	5053556001996	23271806	Taiwan
85-6864	5053556001972	23271806	Taiwan
85-6865	5053556001989	23271806	Taiwan

R-TECH

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