

Premium Lead-Free Solder Wire



DESCRIPTION

High purity lead-free solder wire with added silver and copper for superior results.

DISTINCTIVE FEATURES

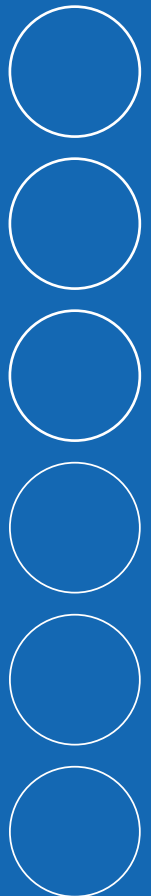
- Excellent solder joint reliability
- Superior joint strength
- Excellent thermal and mechanical fatigue resistance
- Suitable for no-clean process

APPLICATIONS

Ideal for lead-free industrial applications employing a no-clean process.

Lead-free

Premium grade





GENERAL SPECIFICATION

Melting Point	Approx. 217°C
Gravity	7.4
Spreadability	>75%



MATERIALS

Alloy	Sn95.5Ag3.9Cu0.6
Appearance	Bright, shiny silver wire
Flux Content	3.0 ± 1.0%
Halide Content	Under 0.5%
Alloy Composition	See below

Sn	Ag	Cu	Ni	Ge	Pb	Sb	Bi	Cd	Au	In	Al	As	Fe	Zn
REM.	3.7~ 4.0	0.4~ 0.8	0.001~ 0.01	0.001~ 0.01	0.05 Max	0.05 Max	0.10 Max	0.002 Max	0.05 Max	0.10 Max	0.001 Max	0.03 Max	0.02 Max	0.001 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	IPC-TM-650, 2.6.15
S.I.R Test	Pass 1 x 10 ¹⁰ Ω up	IPC-TM-650, 2.6.3.3
Electrochemical migration Test	Pass 1 x 10 ¹⁰ 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

Wire Diameter	See table
Diameter tolerance	0.3 to 0.7 ± 0.05mm, 0.8 to 3.0 ± 0.1mm



OPTIONS

Wire diameters	From 0.3 to 3.0mm
Packaging option	Custom packaging available



PART NUMBER TABLE

Part Number Units	Wire diameter mm	SWG	Weight g	Package type	EAN	UNSPSC	Country of origin
85-6870	0.7	22	100	Reel	5053556002030	23271806	Taiwan
85-6871	0.7	22	500	Reel	5053556002047	23271806	Taiwan
85-6869	1	19	12	Tube	5053556002023	23271806	Taiwan
85-6876	1	19	500	Reel	5053556002580	23271806	Taiwan
85-6872	1.2	18	12	Tube	5053556002054	23271806	Taiwan
85-6873	1.2	18	500	Reel	5053556002061	23271806	Taiwan

R-TECH

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