

## 60/40 Tin/Lead Solder Wire



### DESCRIPTION

High grade solder wire containing 60% tin and 40% lead. Provides excellent solder joint reliability, superior joint strength and excellent thermal and mechanical fatigue resistance. It has a rosin-activated flux which requires little cleaning after making the solder joint and is ideal for use in applications requiring good activation.

### DISTINCTIVE FEATURES

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

### APPLICATIONS

Please note: This product contains lead and rosin. As of 1st March 2018 the supply of solder containing lead at a concentration above the relevant limit as set out under Article 67 (by virtue of Annex XVII of the REACH regulation) is restricted to professional use only.

We recommend that schools use lead-free solder for all projects.

**Sn/  
Pb40**

**2%  
flux**

**IPC-  
TM-650**





## GENERAL SPECIFICATION

Melting Point	+183 to +190°C approx.
Gravity	8.5
Spreadability	>80%



## MATERIALS

Alloy	Sn/Pb40
Appearance	Bright and shiny surface
Flux Content	2.0 ± 1.0%
Halide Content	<1%
Alloy Composition	See below

Sn	Pb	Sb	Bi	Cd	Cu	Au	In	Ag	Al	As	Fe	Ni	Zn
59.5~60.5	REM.	0.05 Max	0.05 Max	0.002 Max	0.05 Max	0.05 Max	0.10 Max	0.10 Max	0.001 Max	0.03 Max	0.02 Max	0.10 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 $1 \times 10^{10} \Omega$ up	IPC-TM-650, 2.6.3.3
Electrochemical migration Test	PASS $1 \times 10^{10} \Omega$ 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 0.7 $\pm 0.05$ mm, 0.8 to 3.0 $\pm 0.1$ mm
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Part Number Units	Wire diameter mm	Pack size
85-6860	0.7	100g Reel
85-6861	0.7	500g Reel
85-6862	1.2	500g Reel
85-6863	1.2	2kg Reel



## PART NUMBER TABLE

Part Number	EAN	UNSPSC	Country of Origin
85-6860	5053556001934	23271806	Taiwan
85-6861	5053556001941	23271806	Taiwan
85-6862	5053556001958	23271806	Taiwan
85-6863	5053556001965	23271806	Taiwan

# R-TECH

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