

# WSW SOLDER WIRE THE PERFECT SOLDER JOINT



**PERFORMANCE &  
PRODUCTIVITY**



**LOW TOTAL COST  
OF OWNERSHIP**



**QUALITY  
SOLDER JOINTS**



# WSW SOLDER WIRE

# THE PERFECT

# SOLDER JOINT

Designed to enhance the quality of all your soldering jobs, Weller WSW increases productivity, and optimizes your soldering performance. With a guaranteed 100% continuous flux core, combined with pure first metal melting, WSW enables long-term, highly durable solder joints.



### PERFORMANCE & PRODUCTIVITY

Optimized performance with a guaranteed and consistent 100% continuous flux core



### LOW TOTAL COST OF OWNERSHIP

Up to 70% less reduced tip consumption and provide a low total cost of ownership by saving labor time & resources due a higher productivity



### QUALITY SOLDER JOINTS

Long-term, highly durable soldering joints that will not crack, even on difficult surfaces

### First metal melting

First melting of metals (no recycled material) ensures consistent high quality and lowest contamination in the alloy.

### Alloy

Optimized micro-alloyed solder wire alloy to minimize oxidation of the soldering tip. More efficient, precise soldering and consistent high quality solder joints while extending tip life and reducing costs.

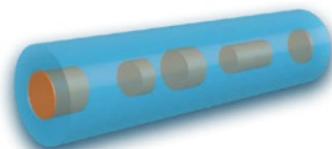
### Rosin

Homogeneous distribution of the activators within the resin ensures a uniform soldering result and the long-term reliability of the flux residues.

### 100% Flux Core

Weller WSW Solder Wires have a 100% continuous flux core without any kind of air inclusions. The soldering process is not interrupted and the solder joint reaches a different another level of quality and long-term stability.

### Standard Flux Core



Air pockets and high variance in flux content



### TIP WETTING

Fast and homogeneous wetting due to 100% continuous flux core



### REDUCED SPLASH

Increase direct user safety as well as workplace cleanliness



### FLOW & HEAT PERFORMANCE

Patented alloys guarantees optimal results



### MAXIMUM FLEXIBILITY

Wide range of alloys and fluxes as well as various wire diameter

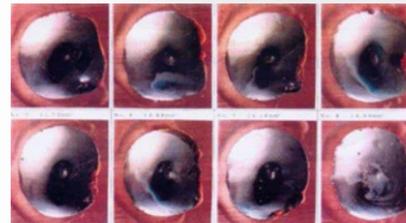


## Comparison of Solder Joints

The comparison between a Standard Solder Wire and the Weller WSW Solder Wires with 100% continuous flux core demonstrates: The homogeneous flux core of the Weller WSW Solder Wires leads to a visibly better soldering result and a higher quality of the entire solder joint.

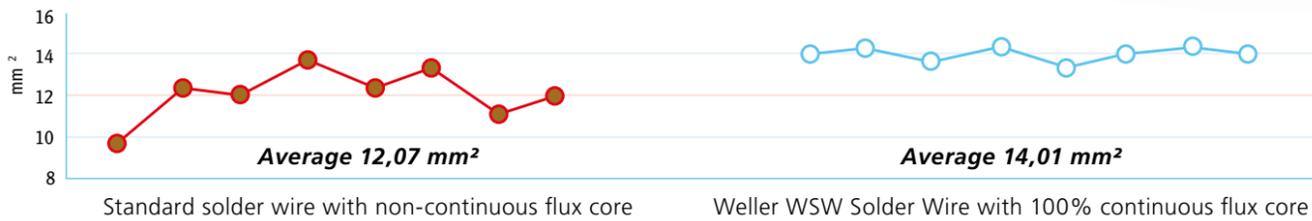


Solder joints standard solder wire with flux core with air pockets



Solder joints Weller WSW Solder Wire with 100% continuous flux core without air pockets

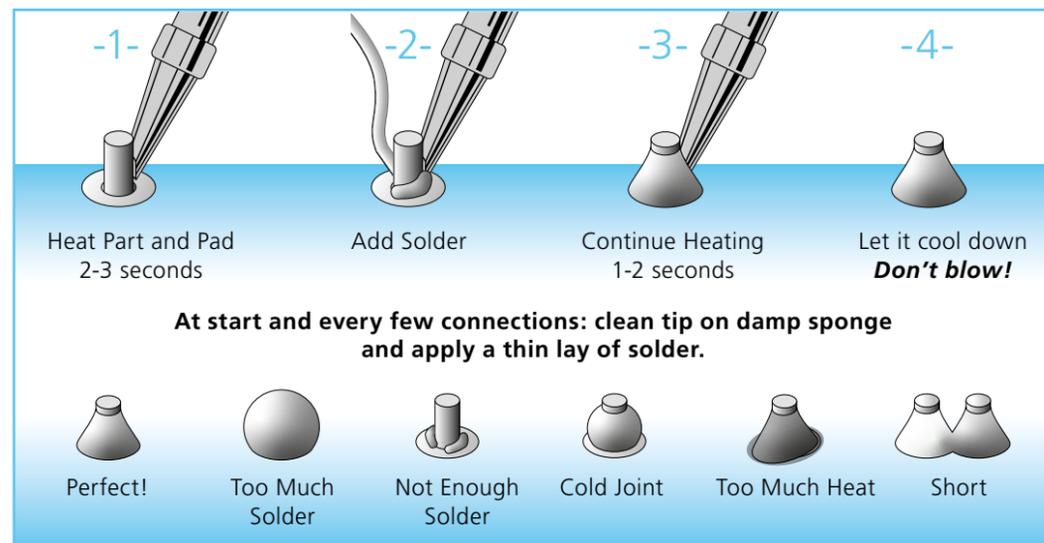
Standard solder wires also show a clear variance in the graphical representation, whereas hardly any deviations are visible with Weller WSW Solder Wires.



## At a glance

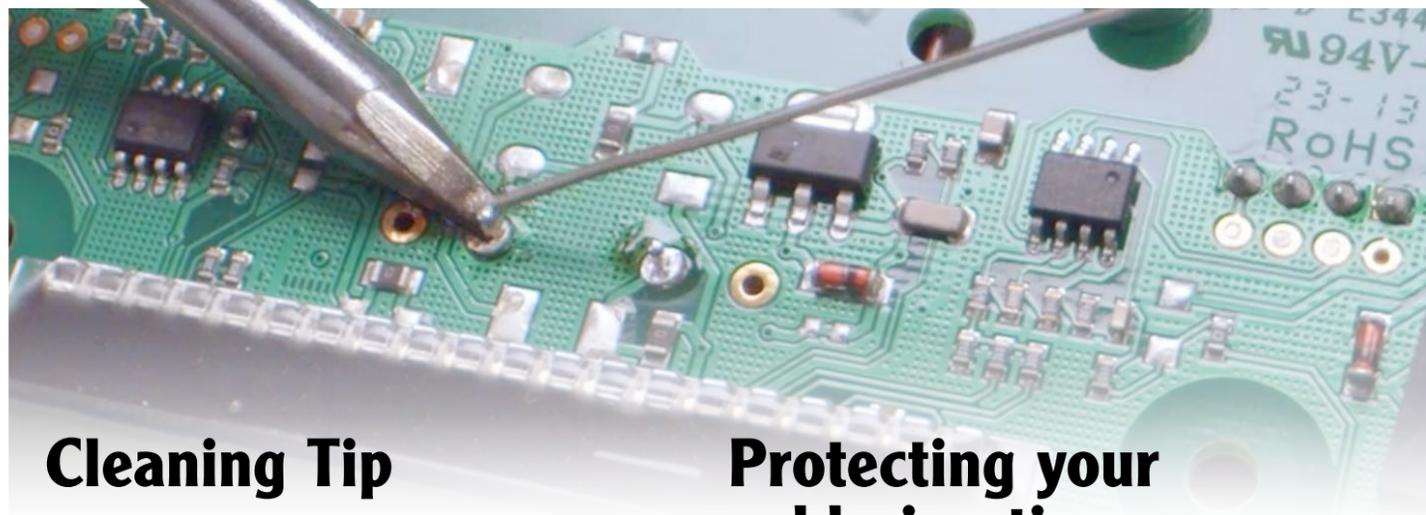
	WSW SAC M1	WSW SAC LO	WSW SC M1	WSW SC LO	WSW SCN M1	WSW SnPb
Alloy	Sn96.5Ag3.0Cu0.5	Sn96.5Ag3.0Cu0.5	Sn99.3Cu0.7	Sn99.3Cu0.7	Sn99.3Cu0.6Ni0.05	Lead solder wire
Flux content	3,5 %	3,5 %	3,5 %	3,5 %	3,5 %	2,2 %
Weight in g	500; 250; 100; 10	500; 250; 100	500	500	100	100
Weight in oz	17.637; 8.81849; 3.5274; 0.352	17.637; 8.81849; 3.5274	17.637	17.637	8.81849	8.81849
Wire diameter in mm	1.6; 1.2; 1.0; 0.8; 0.5; 0.3; 0.2	1.6; 1.2; 1.0; 0.8; 0.5; 0.3	1.2; 1.0; 0.8; 0.5	1.2; 1.0; 0.8; 0.5	1.0; 0.8; 0.5	1.2; 1.0; 0.8; 0.5
Wire diameter in inches	0.629; 0.472; 0.039; 0.031; 0.019; 0.011; 0.007	0.629; 0.472; 0.039; 0.031; 0.019; 0.011	0.472; 0.039; 0.031; 0.019	0.472; 0.039; 0.031; 0.019	0.039; 0.031; 0.019	0.039; 0.031; 0.019
Leadfree	✓	✓	✓	✓	✓	-
Temperature range in °C	217 - 221	217 - 221	228	228	228 - 229	183 - 190
Temperature range in °F	422.6 - 429.8	422.6 - 429.8	442.4	442.4	442.4 - 444.2	361.4 - 374
No-clean solder wire*	✓	✓	✓	✓	✓	✓
Anti corroding effect	✓	✓	✓	✓	✓	✓
Reduced splash	✓	✓	✓	✓	✓	✓
Halide free	-	✓	-	✓	-	-
100% continuous flux core	✓	✓	✓	✓	✓	✓
RoHS-compliant	✓	✓	✓	✓	✓	-
High temperatures possible	✓	✓	✓	-	✓	-
Operative Range	Electric, Electronic, Repair, Solder Robot, Home Projects, Military, Aerospace, Medical Device, Automotive, Solar					
Applications	Material copper brass, Material nickel, DIY, Electric components, SMT, Stainless glass/Tiffany, Hobbists, Rework, Radios, TV					

## How to create a perfect Solder Joint



\* no residual flux cleaning necessary

# Extension of tip life



## Cleaning Tip

Lead-free soldering: Dry clean with Weller brass wool  
 Leaded soldering: Wet clean with Weller sponge

- Always make sure the tip is fully 'wetted' before placing your iron back into the safety rest.
- Feed your solder in such a way that it makes simultaneous contact with the component and the soldering tip.
- Apply the minimum amount of pressure onto the tip when soldering.
- Remove black layers from an oxidized tip with steel wool or a smooth stainless steel brush.

## Protecting your soldering tip from oxidation

- A fully 'wetted' tip is safe from oxidation.
- Weller's WPB1, polishing bar, can be used to remove compacted oxide films from a soldering tip, but only when the tip is cold.
- Use a Weller Dry Cleaner, WDC or WDC 2, for normal, regular cleaning of your soldering tip.
- For extreme oxidation, use Weller Tip Tinner on hot tip to regenerate oxidized tip

## How to extend the lifetime of your original Weller soldering tips.

The soldering tip MUST transfer heat effectively & reliably to the joint & is therefore the critical quality relevant component in the soldering process!

Unprofessional care of the tips can result in a great quality decrease and costly soldering problems. To prevent such problems and unnecessary waste, original Weller products & tips MUST be used at all times!

Weller irons, stations and Stop & Go Safety Rests enable you to use devices in standby mode to protect the soldering tip & save energy. The new WSW wire rounds off Weller's range of tip saving accessories to our valued customers!



Find out how to use the WDC dry cleaner correctly on our youtube channel [www.youtube.com/wellersoldering](http://www.youtube.com/wellersoldering)

# Accessoires



SD1000 Solder dispenser

For use of coils up to 1000 g,  
 Length 95 mm, core Ø > 15 mm,  
 Length 70 mm, core Ø > 12 mm,  
 Length 84 mm, core Ø < 12 mm

Order-no. T0051301799N



Weller WDC Dry cleaner

Weller WDC Dry cleaner with brass or steel wool. Minimization of the erosion - Double soldering tip lifetime

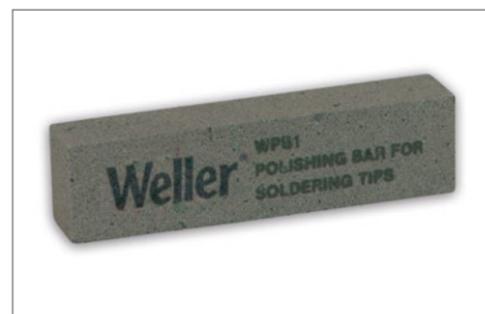
Order-no. WDC: T0051512499



Weller tip activator

Clean the soldering tip while it is still hot. Reactivation of oxidized soldering tips with heat.

Order-no. T0051303199



WPB 1 polishing bar

Cleans and renews the soldering tip surface. Clean the tip only when it is cold to prevent damage.

Order-no. TWPB1



Stainless steel brush

Removes stubborn flux residues.

Order-no. T0051382799

# WSW SOLDER WIRE THE PERFECT SOLDER JOINT

**100% FLUX  
CORE**



## DEUTSCHLAND

Weller Tools GmbH  
Carl-Benz-Straße 2  
74354 Besigheim

Tel: +49 (0) 7143 580-0  
Fax: +49 (0) 7143 580-108

## USA

Apex Tool Group, LLC  
670 Industrial Drive  
Lexington, SC 29072

Tel: +1 (800) 688-8949  
Fax: +1 (800) 234-0472

## CHINA

Apex Tool Group  
Room 302A, NO 177 Bibo Road  
Shanghai 201203

Tel: +86 (21) 60880288  
Fax: +86 (21) 60880289

More Information:  
[www.weller-tools.com/wsw](http://www.weller-tools.com/wsw)

