

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.

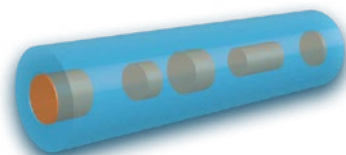
Rosin

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



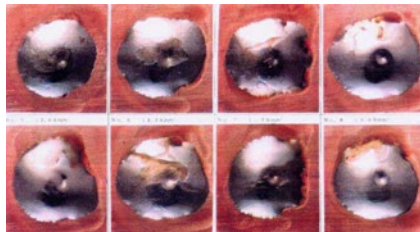
MAXIMUM FLEXIBILITY

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

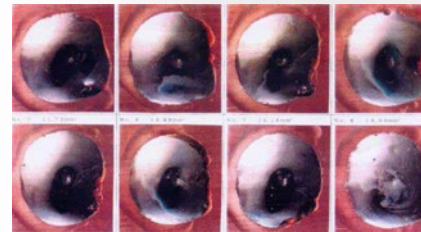


Comparison of Solder Joints

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.

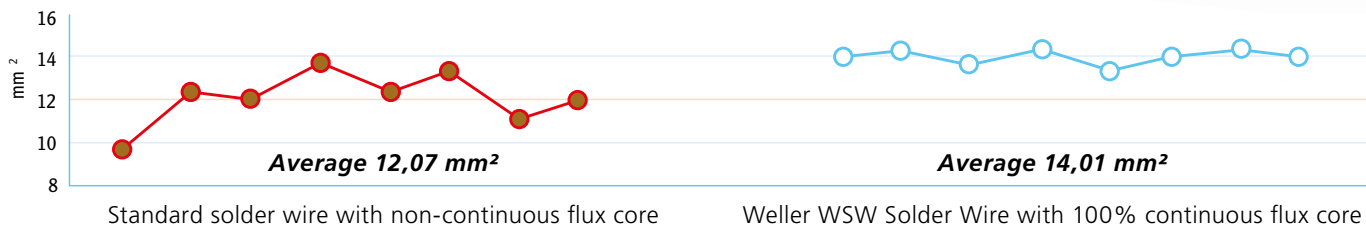


Solder joints standard solder wire with flux core with air pockets



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

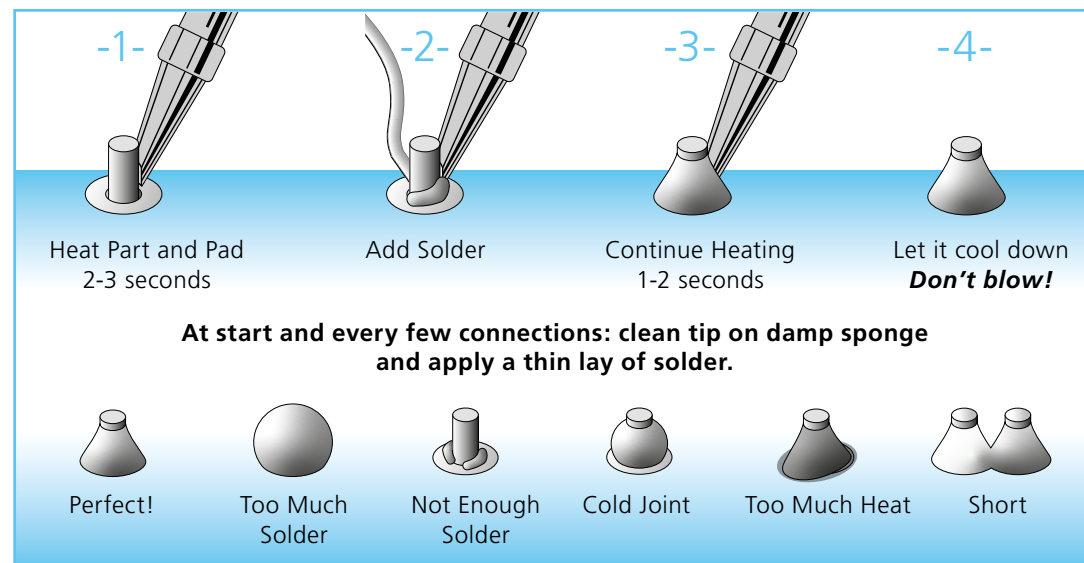
Standard solder wires also show a clear variance in the graphical representation, whereas hardly any deviations are visible with Weller WSW Solder Wires.



At a glance

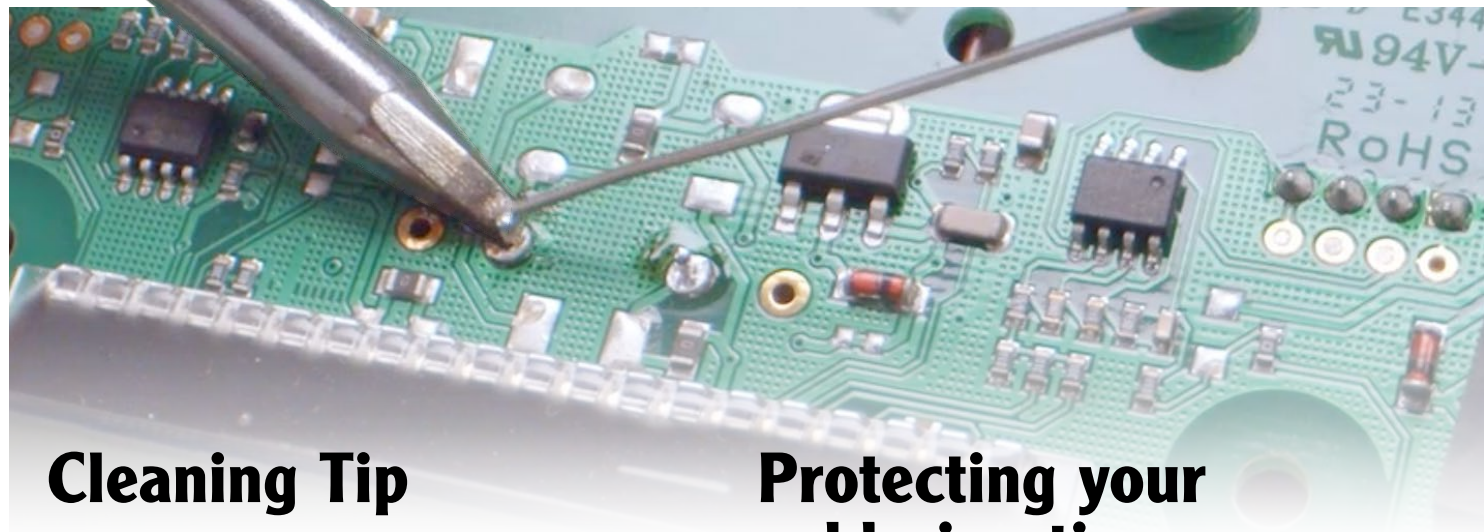
| | WSW SAC M1 | WSW SAC LO | WSW SC M1 | WSW SC LO | WSW SCN M1 | WSW SnPb |
|----------------------------|--|--|----------------------------|----------------------------|---------------------|---------------------|
| Alloy | Sn96.5Ag3.0Cu0.5 | Sn96.5Ag3.0Cu0.5 | Sn99.3Cu0.7 | Sn99.3Cu0.7 | Sn99.3Cu0.6Ni0.05 | 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

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

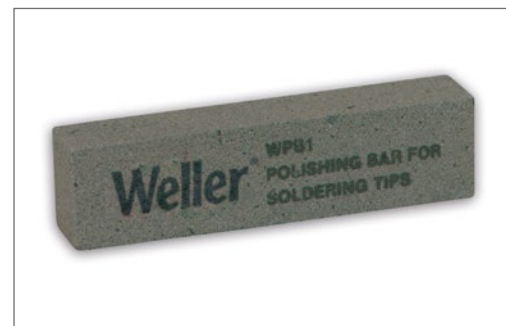
Order-no. WDC: T0051512499



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



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