

LINQALLOY SW-SAC305

SAC305 Solder Wire



- No-clean solder wire
- Lead Free and RoHS compliant
- Good wetting properties and non-splattering

LINQALLOY-SW-SAC305 is a lead free solder wire comprised of 96.5% tin, 3% silver, 0.5% copper that has been designed for electronic assembly soldering. **No-clean solder wire** is designed for applications where post-soldering cleaning is unnecessary, providing minimal, non-conductive residues.

The enhanced flux content (higher %) guarantees higher reliability and leaves behind minimal residues, resulting in exceptionally high insulation resistance and excellent reliability.

Chemical composition

Alloy	Chemical composition (wt.%)											
	Sn	Ag	Cu	Ni	Zn	Al	Sb	Fe	As	Bi	Cd	Pb
Sn96.5-Ag3.0 -Cu0.5	Bal.	3.0	0.5	0 ~ 0.01	0.002 [Max]	0.005 [Max]	0.05 [Max]	0.02 [Max]	0.03 [Max]	0.10 [Max]	0.002 [Max]	0.01 [Max]

Technical Specifications

Property	Value
Alloy	SAC305
Flux content [%]	1.0 ~ 2.8
Melting Point [°C]	217
Soldering Temperature [°C]	260~290
Tensile Strength [MPa]	30
Elongation at Break [%]	55
Expansion Rate [%]	≥ 80
Halogen Content	ROL0 / ROL1
Silver nitrate test	PASS
Copper corrosion	PASS
SIR [Ω]	≥4.7×10 ¹³
Water soluble resistance (Ω·cm)	>1×10 ⁵
Copper Mirror	PASS

Europe

Industrieweg 15E,
1566JN Assendelft
The Netherlands
Phone: +31 (20) 893 2224
Email: info@caplinq.com

Canada

80 Sirocco Crescent
Ottawa ON, K2S 2C9
Canada
Phone: +1 (613) 482-2215
Email: info@caplinq.com



North America

36927 Schoolcraft Rd
Livonia, MI 48150
United States
Phone: +1 (313) 558-8243
Email: info@caplinq.com

South East Asia

S-08-07 Persiaran Triangle
B Lepas, Penang 11900
Malaysia
Phone: +60 (12) 4302223
Email: info@caplinq.com

Solder Wire Diameters and Packaging

Diameter [mm]	Packaging
Φ0.5, Φ0.6, Φ0.8, Φ1.0, Φ1.2, Φ2.0	1. Paper box packaging 2. Quantity per Box: 10 rolls

Storage and handling:

General:

- Store unopened solder wire in its original container in a cool, **dry environment**.
- Maintain a constant temperature and humidity level for optimal storage.
- Ideal conditions are:
 - Temperature: Below normal room temperature (around 22°C / 72°F)
 - Relative Humidity: Less than 80%
- Implement a **First-In-First-Out (FIFO)** inventory system to ensure proper stock rotation and use older solder first.
- Minimize exposure to light and contaminants.

Shelf Life:

- Typically up to **2 years from the manufacture date** when stored properly.

Handling:

- Wash hands before handling solder wire to minimize contamination.
- Avoid excessive bending or flexing of the wire, which can cause damage.
- Wear appropriate gloves when handling solder wire, especially lead-containing varieties.
- After use, reseal the container tightly to prevent moisture absorption and contamination.

Europe

Industrieweg 15E,
1566JN Assendelft
The Netherlands
Phone: +31 (20) 893 2224
Email: info@caplinq.com

Canada

80 Sirocco Crescent
Ottawa ON, K2S 2C9
Canada
Phone: +1 (613) 482-2215
Email: info@caplinq.com



North America

36927 Schoolcraft Rd
Livonia, MI 48150
United states
+1 (313) 558-8243
Email: info@caplinq.com

South East Asia

S-08-07 Persiaran Triangle
B Lepas, Penang 11900
Malaysia
Phone: +60(12)4302223
Email: info@caplinq.com