Technical Bulletin

Issue 2 - 10/03/20

SC3100 Flux Cored Solder Wire

DESCRIPTION

SC3100 flux cored solder wire utilizes the latest in no clean flux technology and offers excellent soldering performance across a wide range of lead free and leaded solder alloys. Designed for operator comfort there is little fume or odour evident during use. SC3100 provides excellent wetting to a wide range of PCB finishes including HASL and OSP protective coatings. SC3100's thermal characteristics alleviate the need for additional flux. Residues are cosmetically pleasing and, in most applications, do not need to be removed. SC3100 is classified as ROL0 per J-STD-004.

FEATURES AND BENEFITS

- Fast Wetting
- Minimal/Clear Residue
- Extends Solder Tip Life
- ROL0 per IPC J-STD-004
- REACH and RoHS Compliant*
- Low Odor / Fumes
- Halogen Free per EN14582
- Ideal for hand Soldering Applications

*Lead-Free Alloys

APPLICATION

It is important to match the geometry of the solder tip to the size of lead or component pad you are working on. As a guide line for lead free solders a tip temperature of between 370° - 425°C is ideally suited. For leaded alloys a temperature of 300° - 400°C is recommended.

HANDLING & STORAGE

All cored solder wires should be stored in clean dry areas away from moisture and direct sunlight. Do not freeze.

Shelf life:

7 years	< 85°F (< 29°C)

CLEANING

SC3100 is a no clean solder wire and therefore residues do not need to be removed. If cleaning is required, SC3100 can be cleaned with commercially available flux removers. IPA is not recommended. For further advice on your application contact one of our Sales Offices.

SAFETY

Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying Safety Data Sheet for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.

TECHNICAL DATA

	Specifications	Test Method
Flux Classification	ROL0 ROL1	JSTD-004 JSTD-004B 3.3.1
Copper Mirror	Low	J-STD-004B 3.4.1 IPC-TM-650 2.3.32
Corrosion	Pass	J-STD-004B 3.4.1 IPC-TM-650 2.6.15
Quantitative Halides	0.09% (Typical)	J-STD-004B 3.4.1 IPC-TM-650 2.3.28.1
Qualitative Halides:		
Silver Chromate:	Pass	J-STD-004B 3.5.1 IPC-TM-650 2.3.33
Fluoride Spot:	No Fluoride	J-STD-004B 3.5.1 IPC-TM-650 2.3.35.1
SIR	Pass	J-STD-004B 3.4.1 IPC-TM-650 2.6.3.7

AVAILABILITY

Alloy Designation	Melting or Solidus / Liquidus Temp °C	Flux Amount
SAC305	217 / 221	2.5%
SAC 0307	217 / 228	2.5%
SN100C	227	2.5%
Leaded – 60/40	183 / 188	2.5%
Leaded - 63/37	183	2.5%

Supplied on 500G Reels. Standard Diameters are 0.5mm, 0.8mm & 1.2mm. Other sizes may be available on request.