

# POWR-GARD® Fuse Datasheet

## SPXC-S SERIES SOLAR FUSE

1500 V dc • 1 – 4 A

UL CE gPV RoHS REACH



### Description

The Littelfuse SPXC-S silver plated solar string fuse is designed specifically for 1-4 A 1500 V dc applications.

### Features/Benefits

- Full range, fast-acting fuse helps eliminate common low-overload faults
- 10 x 57 mm package size
- Up to 50,000A interrupting rating

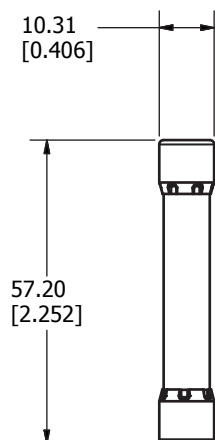
### Applications

- Inverters
- Combiner boxes

### Web Resources

Download technical resources at: [Littelfuse.com/spxcs](http://Littelfuse.com/spxcs)

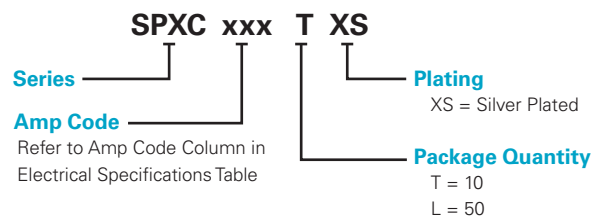
### Dimensions mm (inches)



### Specifications

<b>Voltage Rating</b>	1500 V dc
<b>Amperage Rating</b>	1, 2, 2.25, 2.5, 3, 3.5, 4 A
<b>Interrupting Rating</b>	15 kA (UL 248-19)
	50 kA (Self-Certified)
<b>Time Constant</b>	≤ 1ms
<b>Material</b>	Body: Melamine Caps: Copper Alloy (Silver Plated)
<b>Approvals</b>	UL Listed (File: E339112)
<b>Applicable Standards</b>	UL 248-1, 248-19 IEC 60269-6 (electrically only)
<b>Environmental</b>	RoHS Compliant REACH
<b>Country of Origin</b>	Mexico

### Part Numbering System



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### Ordering Information

SERIES	AMPERAGE	AMP CODE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC
SPXCS	1	001.	SPXC001-S	SPXC 1-S	10	SPXC001.TXS	07945822130
					50	SPXC001.LXS	07945822132
SPXCS	2	002.	SPXC002-S	SPXC 2-S	10	SPXC002.TXS	07945822134
					50	SPXC002.LXS	07945822136
SPXCS	2.25	2.25	SPXC2.25-S	SPXC 2 ¼-S	10	SPXC2.25TXS	07945819890
					50	SPXC2.25LXS	07945819892
SPXCS	2.5	02.5	SPXC02.5-S	SPXC 2 ½-S	10	SPXC02.5TXS	07945819894
					50	SPXC02.5LXS	07945819896
SPXCS	3	003.	SPXC003-S	SPXC 3-S	10	SPXC003.TXS	07945819898
					50	SPXC003.LXS	07945819900
SPXCS	3.5	03.5	SPXC03.5-S	SPXC 3 ½-S	10	SPXC03.5TXS	07945819902
					50	SPXC03.5LXS	07945819904
SPXCS	4	004.	SPXC004-S	SPXC 4-S	10	SPXC004.TXS	07945819906
					50	SPXC004.LXS	07945819908

### Electrical Specifications

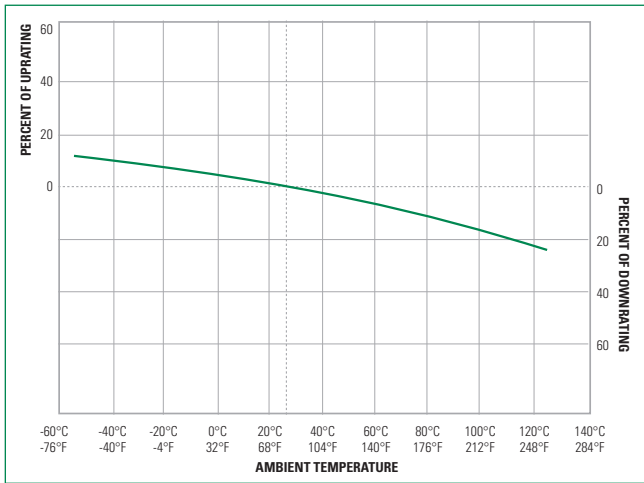
AMPERAGE	VOLTAGE	INTERRUPTING RATING	NOM COLD RESISTANCE (ohm)	WATTS LOSS AT 100 % RATED CURRENT (W)	WATTS LOSS AT 80 % RATED CURRENT (W)	MELTING I <sup>2</sup> t (A <sup>2</sup> s) (1500 V dc)	TOTAL CLEARING I <sup>2</sup> t (A <sup>2</sup> s) 15 kA (1500 V dc)
	DC	DC					
1	1500	50 kA*	0.6253	1.07	0.56	0.29	0.53
2	1500	50 kA*	0.1905	1.32	0.70	1.55	5.13
2.25	1500	50 kA*	0.1245	0.90	0.50	5	13
2.5	1500	50 kA*	0.0793	0.91	0.50	11	26
3	1500	50 kA*	0.0721	0.92	0.51	14	40
3.5	1500	50 kA*	0.0487	0.94	0.53	34	87
4	1500	50 kA*	0.0439	0.95	0.54	56	127

\* 50 kA self-certified

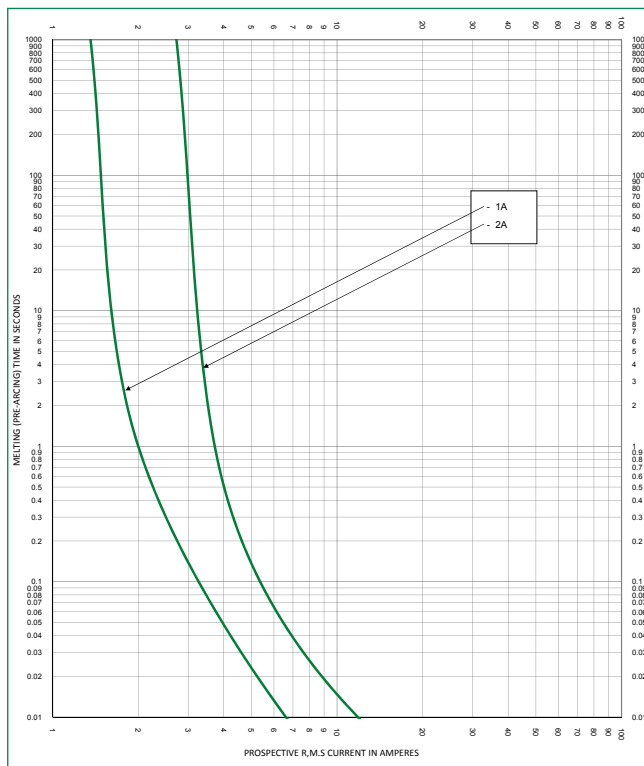
### Electrical Specification – Agency Requirements

AMPERAGE RATING	OPENING TIME (MINUTES)				
	100 % OF AMP RATING PER UL	113 % OF AMP RATING PER IEC	135 % OF AMP RATING PER UL	145 % OF AMP RATING PER IEC	200 % OF AMP RATING PER UL
1-4	Temperature Stabilization	60 Min	60 Max	60 Max	4 Max

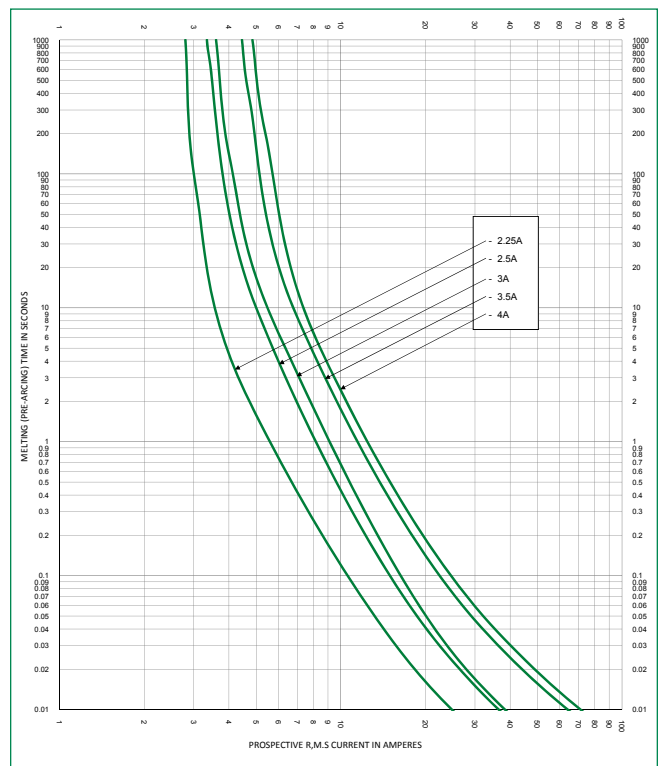
### Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



### Time Current Curve (1-2 A)



### Time Current Curve (2.25-4 A)



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