

POWR-GARD® Fuse Datasheet

SPXC-S SERIES SOLAR FUSE

1500 V dc • 1 – 4 A

UL C E 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

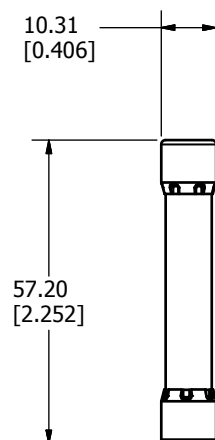
Applications

- Inverters
- Combiner boxes

Web Resources

Download technical resources at: [Littelfuse.com/spxcs](https://www.littelfuse.com/spxcs)

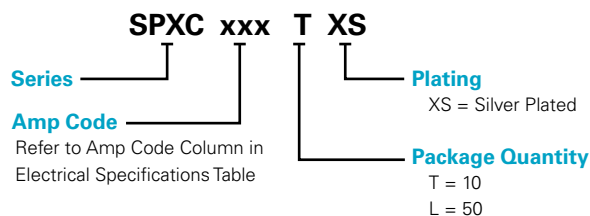
Dimensions mm (inches)



Specifications

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

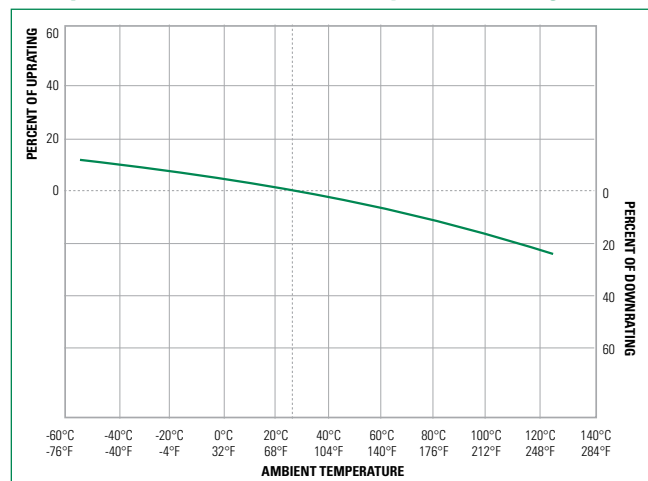
Electrical Specification — Agency Requirements

AMPERAGE RATING	OPENING TIME (MINUTES)			
	100 % OF AMP RATING PER UL	105 % OF AMP RATING PER IEC	135 % OF AMP RATING PER UL	200 % OF AMP RATING PER UL
1-4	Temperature Stabilization	60 Min	60 Max	4 Max

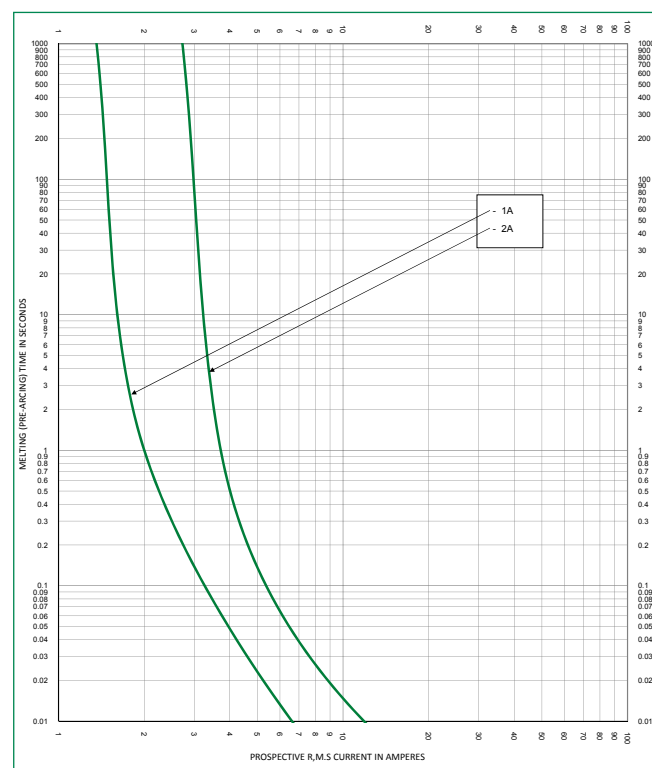
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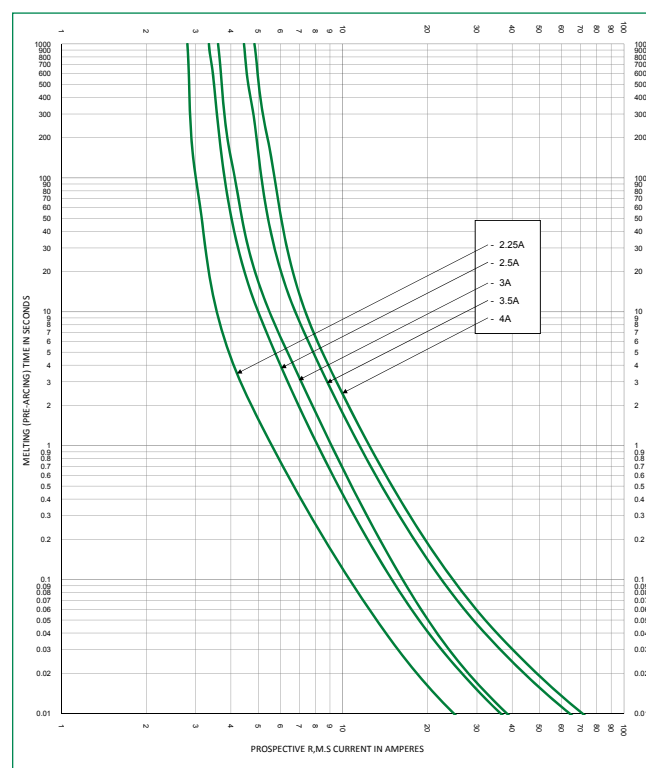
Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



Time Current Curve (1-2 A)



Time Current Curve (2.25-4 A)



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