

Test Performance 测试表现

LTK's Soltech+™ series photovoltaic cables are engineered to meet the highest standards for solar energy solutions. Meeting UL4703 and PSE standards, we offer a broad product range to satisfy various applications found in solar farms.

乐庭的Soltech+™太阳能电缆系列，以最高规格提供太阳能应用解决方案。符合 UL 4703 及 PSE 标准，提供多元化线缆产品，以迎合客户在太阳光电厂的不同需要。

UL Report 测试报告

Detailed Examination 测试项目	Results 结果
Physical Properties of Insulation – Unaged and Oven Aged	Pass
Cold Bend Test (Tested at –40°C)	Pass
Deformation Test	Pass
Conductor Corrosion Test	Pass
Insulation Fall-In	Pass
Capacitance and Relative Permittivity	Pass
Dielectric Voltage-Withstand Test in Water	Pass
Insulation Resistance in Water at 15°C	Pass
Long-term Insulation Resistance in Water	Pass
Sunlight Resistance (Tested for 720 Hr)	Pass
Flexibility Test of Cable at Low Temperature (Tested at –40°C)	Pass
Durability of Indelible-Ink Printing	Pass
Vertical Flame Test	Pass
VW-1 Flame Test	Pass
Horizontal Specimen / FT2 Flame Test	Pass



PSE Report 测试报告

Detailed Examination 测试项目	Results 结果
Cold Resistance Test	Pass
Heat Deformation Test	Pass
Oil Resistance Test	Pass
Flame Resistance Test (60 degree incline)	Pass
Tensile Strength and Elongation Test	Pass
Winding and Heating Test	Pass



Printed on Recycled & Elemental Chlorine Free Paper

Soltech+™ series

Photovoltaic Cables 太阳能电线系列



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乐活新世代
The Future of our Lifestyle

Soltech+™ series

Photovoltaic Cables 太阳能电线系列

Compliant with UL, PSE standards
Reliable performance & cost effective

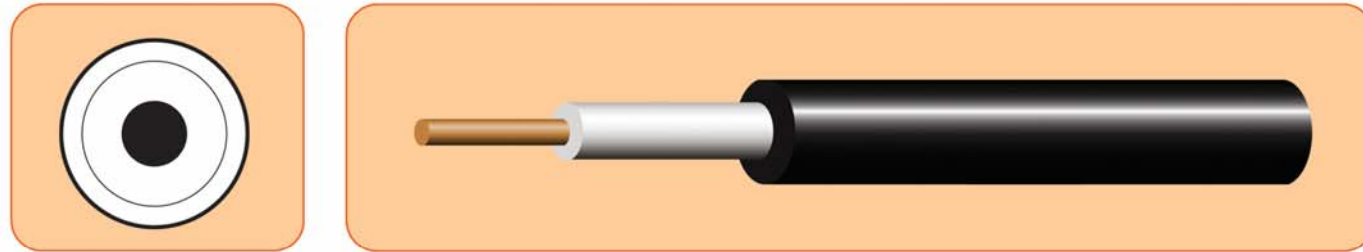
通过 UL、PSE 国际认证标准
性能稳定可靠，符合成本效益

Applications 应用

LTK's Soltech+™ series photovoltaic cables are compliant with UL and PSE standards, and are widely applied for interconnection wiring of grounded and ungrounded photovoltaic power systems described in Wiring Systems, Article 690*.

乐庭的Soltech+™太阳能电线系列，通过UL、PSE等认证标准，广泛应用于地面及地下太阳能系统（详述于文件690*的线缆系统）的内部连线。

Product Description 产品说明



Product Series 产品系列	U Series	P Series
Conductor 导体	Stranded Tinned / Bare Copper 绞合镀锡铜 / 裸铜 16, 14, 12, 10 AWG	Stranded Tinned / Bare Copper 绞合镀锡铜 / 裸铜 Cross section area 切面积 : 0.9 to 8.0mm ²
Insulation 绝缘	XLPE 交联聚乙烯	XLPE 交联聚乙烯
Jacket 护套	XLPE 交联聚乙烯	PVC 聚氯乙烯
Rated Temperature 额定温度 (°C)	-40 to 90	-
Operating Voltage 运作电压 (V)	600, 1000, 2000	600
Approval 认证	UL 4703	JIS C 3005
Flame Test 燃烧测试	VW-1	JIS

* Refer to the standard of National Electric Code, NEC.
参考美国国家电气规程部分

Specifications 规格

Soltech+™ U Series

Part No. 型号	Type 种类	Conductor 导体			Insulation 绝缘	Jacket 护套	Outer Diameter 成品外径 (mm)	Operating Voltage 运作电压
		N x AWG 芯数 x 线规	No./mm 线数 / 线径	Diameter 线径 (mm)				
HFPV-002	UL PV	1 x 16	26/0.254	1.49	XLPE	XLPE	5.70	600V
HFPV-003	UL PV	1 x 14	41/0.254	1.90	XLPE	XLPE	6.10	600V
HFPV-004	UL PV	1 x 12	65/0.254	2.36	XLPE	XLPE	6.60	600V
HFPV-005	UL PV	1 x 10	66/0.32	3.00	XLPE	XLPE	7.30	600V
HFPV-006	UL PV	1 x 16	26/0.254	1.49	XLPE	XLPE	6.40	1kV / 2kV
HFPV-007	UL PV	1 x 14	41/0.254	1.90	XLPE	XLPE	7.00	1kV / 2kV
HFPV-008	UL PV	1 x 12	65/0.254	2.36	XLPE	XLPE	7.50	1kV / 2kV
HFPV-009	UL PV	1 x 10	66/0.32	3.00	XLPE	XLPE	8.20	1kV / 2kV

Characteristics 特性

- Electron-beam cross-linked compounds
- UV resistance : 720 hr
- Min. bend radius : >5x OD
- Cold bending : -40°C
- 辐照交联化合物
- 耐紫外线 720 小时
- 最小弯曲半径 : 大于5倍的线材外径
- 冷弯试验 : -40°C

Soltech+™ P Series

Part No. 型号	Type 种类	Conductor 导体			Insulation 绝缘	Jacket 护套	Outer Diameter 成品外径 (mm)	Operating Voltage 运作电压
		Area 截面 (mm ²)	No./mm 线数 / 线径	Diameter 线径 (mm)				
PHCV-001	HCV	0.90	7/0.4	1.20	XLPE	PVC	5.80	600V
PHCV-002	HCV	1.25	7/0.45	1.35	XLPE	PVC	5.95	600V
PHCV-003	HCV	2.00	7/0.6	1.80	XLPE	PVC	6.40	600V
PHCV-004	HCV	3.50	7/0.8	2.40	XLPE	PVC	7.00	600V
PHCV-005	HCV	5.50	7/1.0	3.00	XLPE	PVC	8.00	600V
PHCV-006	HCV	8.00	7/1.2	3.60	XLPE	PVC	8.60	600V

Characteristics 特性

- Cold resistance : -15°C
- Heating deformation : 120°C
- Oil resistance : 85°C x 4hrs
- Flame resistance : 60° incline flame test
- 耐冷 : -15°C
- 热变形 : 120°C
- 耐油 : 85°C x 4小时
- 耐燃 : 通过 60° 斜角燃烧测试