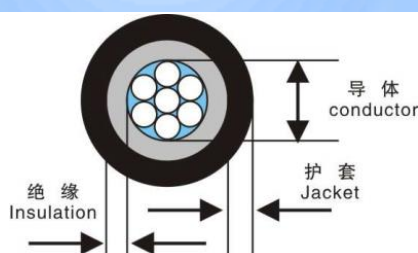


光伏设备及系统用电缆线

Electric Cables for PV Systems



◆ 型号Type:

IEC: 62930 IEC 131 $1 \times 4\text{mm}^2$ HALOGEN FREE LOW SMOKE

EN: H1Z2Z2-K $1 \times 4.0\text{mm}^2$

◆ 产品标准Product Standard:

IEC 62930& EN50618, 及天合内控标准。 IEC 62930& EN50618 and Trina solar Standard.

◆ 结构Construction:

导体 Conductor	绞合镀锡铜线(IEC 60228 Class 5) 56股/ $0.285 \pm 0.008\text{mm}$, 束绞直径: 2.46mm Stranded tinned copper (IEC 60228 Class 5) 56/ 0.285 ± 0.008 , Stranded OD: 2.46mm
绝缘 Insulation	低烟无卤交联聚烯烃, 颜色: 黑色 Halogen free crosslinked polyolefin, Color: Black
护套 Sheath	低烟无卤交联聚烯烃, 颜色: 黑色 Halogen free crosslinked polyolefin, Color: Black
外径 OD	$5.7 \pm 0.2\text{mm}$
印字 Marking	符合IEC要求 For IEC62930 Standard: 62930 IEC 131 $1 \times 4\text{mm}^2$ DC1500V HALOGEN FREE LOW SMOKE Trina Solar Co., Ltd. R 50451199 符合EN要求 For EN50618 Standard: EN 50618 H1Z2Z2-K $1 \times 4\text{mm}^2$ DC1500V Trina Solar Co., Ltd. R50426462

◆ 应用 Application:

应用范围 Application	用于光伏系统内部和外部连接。 Suited for connecting PV system inside and outside of buildings and equipment.
额定电压 Rated Voltage	IEC1500V/EN1500V
工作温度 Working temperature	$-40 \sim +90^\circ\text{C}$
最高线温 Max.conductor temperature	120°C
短路温度 Short circuit temperature	200°C , 5S
弯曲半径Bending radius	6D
寿命Life Period	>25年 >25years

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◆ 性能 Properties:

导体电流电阻 (20℃) Maximum resistance of conductor at 20℃	≤5.09Ω/KM, IEC 60228
绝缘电阻 (20℃) Insulation resistance at 20℃	≥10 ¹⁴ Ω·cm, IEC 60227-2
绝缘电阻 (90℃) Insulation resistance at 90℃	≥10 ¹¹ Ω·cm, IEC 60227-2
额定电压 Rated Voltage	IEC1500V/EN1500V/UL2000V
介电强度 (交流) Dielectric Strength (AC)	AC 6.5KV 5min, IEC 60245-2 不击穿 No break
绝缘抗张强度Tensile strength of insulation	≥10.3Mpa
绝缘伸长率elongation of insulation	≥125%
护套抗张强度Tensile strength of sheath	≥10.3Mpa
护套伸长率elongation of sheath	≥125%
耐臭氧Ozone resistant	IEC 60811-403
耐气候性 UV resistant	Annex E, 60 W/m ² ± 15 %,300 and 400 nm,720 h
湿热测试Damp heat	IEC 60068-2-78
低温冲击Low temperature impact	IEC 60811-506
低温卷绕 (-40℃,16h) Cold bending	无裂纹 No crack
耐燃 Fire performance	IEC60332-1 & UL VW-1

◆ 参考载流量 Current Rating Ambient Temperature: 30℃

敷设方法 Installation method	单根电缆在空气中 At the air	单根电缆置于表面 On surface without opposite contact	电缆表面相互贴邻居On surface without opposite contact
参考载流量 Current rating	55A	52A	44A

◆ 认证编号 Certificate NO.:

- ✓ IEC62930(R5045 1199)
- ✓ EN 50618(R5042 6462)