

产品规格书

Product Specification

光电设备用无卤 PV 电缆

Halogen free cable for photovoltaic equipment





型号 Type	
TUV	1*10mm ²
产品标准 Product Standard	IEC62930

结构 construction	
导体 Conductor	绞合镀锡铜线 (IEC 60228 Class 5) 77/0.400 Stranded tinned copper (IEC 60228 Class 5) 77/0.400
绝缘 Insulation	低烟无卤交联聚烯烃 颜色: 白色 / 黑色 Halogen free crosslinked polyolefin Color: white/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	7.8±0.2mm
印字 Marking	 62930 IEC 131 1×10mm ² HALOGEN REE LOW SMOKE QC Solar (Suzhou) Corporation

性能 Properties	
导体电流电阻 (20°C) Maximum resistance of conductor at 20°C	≤ 1.95Ω/Km
绝缘电阻 (20°C) Insulation resistance at 20°C	≥ 424MΩ·Km
绝缘电阻 (90°C) Insulation resistance at 90°C	≥ 0.42MΩ·Km

护套表面电阻 Surface resistance of sheath	$\geq 10^9 \Omega$
成品电缆耐电压 Voltage test of finished cable	AC 6.5KV 5min, 不击穿 No break
绝缘线芯直流耐压 DC Voltage test of insulation	900V, 240h(85°C, 3%NaCl) 不击穿 No break
绝缘抗张强度 Tensile strength of insulation	$\geq 8.0\text{Mpa}$
绝缘伸长率 elongation of insulation	$\geq 125\%$
护套抗张强度 Tensile strength of sheath	$\geq 8.0\text{Mpa}$
护套伸长率 elongation of sheath	$\geq 125\%$
护套热收缩 Shrinkage resistant	$\leq 2\%$
耐酸碱 Acid and alkali resistant	IEC60811-404
耐臭氧 Ozone resistant	IEC60811-403/IEC50396-8.1.3
耐气候性 UV resistant	IEC50289-4-17
动态穿透 Dynamic penetrate force	IEC 62930-Annex D
低温卷绕 (-40°C ,16h) Winding at low temperature	无裂纹 No crack
低温冲击 (-40°C, 16h) Impact at low temperature	无裂纹 No crack
耐燃 Fire performance	IEC60332-1-2
无卤 halogen free	PH ≥ 4.3 , HCL $\leq 0.5\%$, HBr $\leq 0.5\%$, F $\leq 0.1\%$
热寿命 Thermal endurance Test	IEC60216-1,IEC60216-2, T1120

应用 Application	
应用范围 Application	用于光伏系统内部和外部连接。 Suited for connecting photovoltaic system components inside and outside of buildings and equipment

额定电压 Rating voltage	DC1500V AC1000V
工作温度 Working temperature	-40~90℃
最高线温 Max. conductor temperature	120℃
短路温度 Short circuit temperature	250℃ 5S
弯曲半径 Bending radius	动态 $\geq 5XO.D$ 静态 $\geq 4XO.D$
寿命 Life Period	>25 年 >25years

参考载流量 Current carrying capacity			
敷设方法 Installation Method	单根电缆至于空气中 Single cable free in air	单根电缆至于表面 Single cable on a surface	电缆表面相互贴邻 Two loaded cables touching, on a surface Suites for connecting photovoltaic system components inside and outside of buildings and equipment
参考载流量 Current rating	98A	96A	80A

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