

## 单芯光伏线系列

TUV Single Core Solar Cable



### Application

Double insulation, electron-beam cross-linked cables for photovoltaic power station

### Construction

Conductor: Tinned copper, according to the VDE 0295/IEC 60228, Class 5  
Insulation: Polyolefin copolymer electron-beam cross-linked  
Outer sheath: Polyolefin copolymer electron-beam cross-linked  
Sheath color: Black/Red/Blue or as per customer's request

### Technical Specification

Nominal Voltage:  $U_0/U=600/1000VAC, 1000/1800VDC$   
Test Voltage: 6500V, 50HZ, 5Min.  
Temperature Rating:  
45°C upto +125°C  
-40°F upto +257°F  
Ambient temperature: 25 years (TUV)  
-40°C upto +90°C  
-40°F upto +194°F  
Max. Short circuit temperature: 280°C, +536°F  
Bending Radius:  
Fixed installation >4X  
Occasionally moved >5X

### Material Properties /Standards

Fire-resistance performance: IEC 60332-1  
Smoke emission: IEC 61034 ;EN 50268-2  
Low fire load: DIN 51900  
Approvals: TUV 2PFG 1169/08.2007 PV1-F  
Application standards:  
UNE 211 23; UNE 20.460-5-52, UTE C 32-502

### 应用

双绝缘, 电子束交联电子电缆, 用于光伏发电

### 结构

导体: 镀锡铜绞线, 根据 0295/IEC 60228, 5类  
绝缘: 聚烯烃共聚物电子束交联  
外护套: 聚烯烃共聚物电子束交联  
护套颜色: 黑/红/蓝 或根据客户要求

### 技术指标

额定电压:  $U_0/U=600/1000V$ 交流, 1000/1800V直流  
测试电压: 6500V, 50HZ, 5分钟  
温度等级:  
-45°C 到 +125°C  
-40°F 到 +257°F  
环境温度:  
-40°C 到 +90°C  
-40°F 到 +194°F  
最大短路温度: 280°C, +536°F  
弯曲半径:  
固定安装 >4X  
间或移动 >5X

### 材料特性/标准

防火性能: IEC 60332-1  
烟雾排放: IEC 61034 ;EN 50268-2  
低火灾荷载: DIN 51900  
认证: TUV 2PFG 1169/08.2007 PV1-F  
应用标准:  
UNE 211 23; UNE 20.460-5-52, UTE C 32-502

## 单芯光伏线系列

TUV Single Core Solar Cable Series

### Dimensions, Parameter/尺寸, 参数

Construction 结构	Conductor Construction 导体结构	Conductor $\phi$ 绞合外径 $\phi$	Outer $\phi$ 外径 $\phi$	Resistance Max.最大电阻	Current Carring Capacity 载流量
$n \times \text{mm}^2$	n/m	mm	mm	$\Omega/\text{Km}$	A
1×1.5	30/0.25	1.58	4.90	13.30	30
1×2.5	50/0.25	2.02	5.45	7.98	41
1×4.0	56/0.30	2.30	6.10	4.75	55
1×6.0	84/0.30	3.42	7.20	3.39	70
1×10.0	142/0.30	4.56	9.00	1.95	98
1×16.0	228/0.30	5.60	10.20	1.24	132
1×25.0	361/0.30	6.95	12.00	0.795	176
1×35.0	525/0.30	8.74	13.80	0.565	218
1×50.0	720/0.30	9.20	14.80	0.393	280
1×70.0	988/0.30	11.00	16.90	0.277	350
1×95.0	1349/0.30	12.50	18.70	0.21	410
1×120.0	1691/0.30	14.20	20.70	0.164	480

The current-carrying capacity is under the situation of laying the single cable in air.

此载流量为电缆单根敷设于空气中的情况。

The products' detailed description please refer to the specification for approval.

详细尺寸以产品规格书为准。

### Advantages/优点

☆Electron-beam cross-linked compounds

☆电子束交联化合物

☆UV, ozone and hydrolysis resistant

☆抗紫外线和臭氧, 耐水解

☆High temperature resistant, the materials do not melt or flow

☆耐高温, 材料不会熔化或流动

☆Good cold flexibility

☆良好的冷柔韧性

☆Very long service life > 25 years at 90°C

☆寿命长, 在90°C高温下大于25年

☆Compatible to all popular connectors

☆适用于所有常用连接器