

IEC Specification

用途

太陽能發電裝置使用之連接線。

構造

導體：鍍錫軟銅絞線，IEC 60228 class 5

絕緣：低煙無鹵料

被覆：低煙無鹵料

被覆顏色：黑,紅或藍

認證及技術規格

認證規範：IEC 62930:2017

認證號碼：B0047590005

額定電壓：U₀/U = 1000 / 1000 V AC ; 1500 V DC

使用環境溫度：- 40 °C 至 + 90 °C

最大導體溫度：+ 120 °C (允許時間限制 20000 小時)

使用壽命年限：> 25 年

材料特性

耐燃性能：IEC 60332-1-2

無鹵素：IEC 62821-1

抗紫外線及耐臭氧：IEC 62930 附件 E 及 IEC 60811-403

耐酸鹼：IEC 60811-404

優點

低煙無鹵認保產品

交連化合物

耐高溫，材料不會融化或溶解

良好的低溫柔繞性

長時間壽命週期

適用所有一般的連接器

Application

Cables for solar power applications.

Construction

Conductor : Tinned annealed copper strands wire, IEC 60228 class 5

Insulation : Halogen free and low smoke compound

Outer sheath : Halogen free and low smoke compound

Sheath color : Black ,Red or Blue

Approval and Technical specification

Approvals : IEC 62930:2017

Certificate No. : B0047590005

Nominal voltage : U₀/U = 1000 / 1000 V AC ; 1500 V DC

Ambient temperature : - 40 °C up to + 90 °C

Max. temperature at conductor : + 120 °C (The permissible period is limited to 20000 hours)

Expected usable life : > 25 years

Material properties

Flame performance : IEC 60332-1-2

Halogen free : IEC 62821-1

UV and ozone resistant : IEC 62930 Annex E and IEC 60811-403

Acid and alkaline solution resistant : IEC 60811-404

Advantages

LSZH environment friendly products

Cross-linked compound

High temperature resistant, the materials do not melt or flow

Good cold flexibility

Very long life cycle

Compatible to all popular connectors

TUV SUD IEC 62930 B0047590005 62930 IEC 131 HALOGEN FREE LOW SMOKE DC 1500V 1x2.5mm² PACIFIC

| 規格 | 成品最大 外徑 | 最大導體電阻 | 容許電流 | 包裝方式 |
|-----------------|-----------------------------|---------------------------------|-------------------|--------------|
| Specification | Maximum Overall Diameter | Maximum Conductor Resistance | Allowable Current | Reel Package |
| mm ² | mm | Ω/km(20°C) | A | M/R |
| 2.5 | 5.9 | 8.21 | 42 | 1000 |
| 4 | 6.6 | 5.09 | 57 | 1000 |
| 6 | 7.2 | 3.39 | 72 | 1000 |
| 10 | 8.3 | 1.95 | 98 | 1000 |
| 16 | 9.8 | 1.24 | 132 | 1000 |
| 25 | 12.2 | 0.795 | 183 | 1000 |
| 35 | 14.0 | 0.565 | 227 | 1000 |
| 50 | 16.3 | 0.393 | 287 | 1000 |
| 70 | 18.7 | 0.277 | 361 | 1000 |
| 95 | 20.8 | 0.210 | 433 | 1000 |
| 120 | 23.0 | 0.164 | 508 | 1000 |
| 150 | 25.7 | 0.132 | 590 | 1000 |
| 185 | 28.7 | 0.108 | 671 | 1000 |
| 240 | 32.3 | 0.0817 | 808 | 1000 |

備註：1. 容許電流為單芯線纜在環境溫度 30°C 及最大導體溫度 90°C 時的參考值。

2. 包裝方式及單長可依客戶之需求提供。

Note : 1. Allowable current : Single conductor at 30°C ambient temperature and at 90°C max. conductor temperature.

2. The package and length can be modified according to the requirements of customer.