



额定电压 1500V



100m~1000m



低烟无卤阻燃



较好的耐油性



最大耐温 120℃



耐紫外辐照



2PFG 2642



Specification 技术参数

| 应用范围 Application | 太阳能板及光伏系统连线 Internal wiring for solar panel and photovoltaic system applications |
|--------------------------------|---|
| 认证 Approval | TUV 2PFG 2642/11.17 |
| 额定电压 Rating voltage | DC1500V |
| 测试电压 Test voltage | AC 6.5KV, 50Hz 5min |
| 工作温度 Working temperature | -40~90℃ |
| 短路温度 Short circuit temperature | 250℃ 5S |
| 弯曲半径 Bending radius | 12×D |
| 寿命 Life Period | ≥25 years |

Structure 结构参数

| 标称截面 Cross Section (mm ²) | 铝导体构造 ALConstruction (No. /mm±0.01) | 外径 DIA. (mm) | 绝缘厚度 Insulation Thickness (mm) | 护套厚度 Jacket Thickness (mm) | 线缆外径 Cable OD. (mm±0.2) |
|---|---|-----------------|--------------------------------------|----------------------------------|-------------------------------|
| 1×2.5 | 34/0.30 | 2.04 | 0.7 | 0.8 | 5.2 |
| 1×4 | 56/0.30 | 2.60 | 0.7 | 0.8 | 5.8 |
| 1×6 | 84/0.30 | 3.20 | 0.7 | 0.8 | 6.5 |
| 1×10 | 7/1.35 | 3.80 | 0.8 | 0.8 | 7.3 |
| 1×16 | 7/1.7 | 4.80 | 0.9 | 0.9 | 8.7 |
| 1×25 | 7/2.14 | 6.00 | 1.0 | 1.0 | 10.5 |
| 1×35 | 7/2.49 | 7.00 | 1.1 | 1.1 | 11.8 |
| 1×50 | 19/1.8 | 8.30 | 1.2 | 1.2 | 13.5 |
| 1×70 | 19/2.16 | 10.00 | 1.2 | 1.2 | 15.2 |
| 1×95 | 19/2.53 | 11.60 | 1.3 | 1.3 | 17.2 |
| 1×120 | 37/2.03 | 13.00 | 1.3 | 1.3 | 18.6 |
| 1×150 | 37/2.27 | 14.50 | 1.4 | 1.4 | 20.5 |
| 1×185 | 37/2.53 | 16.20 | 1.6 | 1.6 | 23.0 |
| 1×240 | 61/2.26 | 18.50 | 1.7 | 1.7 | 25.8 |



Electrical Data 电气参数

| 标称截面 Cross Section (mm ²) | 最大导体电阻 20℃ (Ω/km) Conductor Max. Resistance @20℃ (Ω/km) | 最小绝缘电阻 20℃ (MΩ·km) Insulation Min. Resistance @20℃ (MΩ·km) | 最小绝缘电阻 90℃ (MΩ·km) Insulation Min. Resistance @ 90℃ (MΩ·km) |
|---|---|--|---|
| 1×2.5 | 13.4 | 862 | 0.862 |
| 1×4 | 7.85 | 709 | 0.709 |
| 1×6 | 5.23 | 610 | 0.610 |
| 1×10 | 3.08 | 489 | 0.489 |
| 1×16 | 1.91 | 395 | 0.395 |
| 1×25 | 1.20 | 393 | 0.393 |
| 1×35 | 0.868 | 335 | 0.335 |
| 1×50 | 0.641 | 314 | 0.314 |
| 1×70 | 0.443 | 291 | 0.291 |
| 1×95 | 0.320 | 258 | 0.258 |
| 1×120 | 0.253 | 249 | 0.249 |
| 1×150 | 0.206 | 268 | 0.268 |
| 1×185 | 0.164 | 260 | 0.260 |
| 1×240 | 0.125 | 249 | 0.249 |

Properties 物理性能

| 测试项目 Test Item | | 测试标准 Standard | Test method |
|--|---|----------------------------|--------------|
| 绝缘/护套伸长率 Elongation | 老化前 before aging test of insulation&sheath | ≥125% | EN 60811-1-1 |
| 绝缘/护套抗张强度 Tensile Strength | | ≥8.0Mp | |
| 绝缘/护套伸长率 Elongation | 老化后 after aging test of Insulation&sheath | >70% | EN 60811-1-2 |
| 绝缘/护套抗张强度 Tensile Strength | | >70% | |
| 护套热收缩 Shrinkage resistant | | ≤2% | EN 60811-503 |
| 耐酸碱 Acid and alkali resistant | | EN 60811-2-1 | |
| 耐臭氧 Ozone resistant | | EN50396-8.1.3 | |
| 耐紫外辐照 UV resistant | | EN 50289-4-17 | |
| 动态穿透 Dynamic penetrate force | | EN 50618-2014 | |
| 低温冲击（-40℃，5h） Impact at low temperature | | EN 60811-1-4 | |
| 阻燃 Fire Resistance | | IEC60332-1-2 | |
| 氯溴含量 Chloride and Bromide Content | | EN 50618 | |
| 热寿命 Thermal endurance Test | | EN60216-1,EN60216-2, TI120 | |

