



Specification 技术参数

|                                    |                                                                                                                   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 应用范围 Application                   | 太阳能板及光伏系统连线<br>Internal wiring for solar panel and photovoltaic system                                            |
| 认证 Approval                        | IEC62930/EN50618                                                                                                  |
| 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℃                                                                                                           |
| 最高线温 Max Conduct temperature       | 120℃                                                                                                              |
| 短路温度 Short circuit temperature     | 250℃ 5S                                                                                                           |
| 弯曲半径 Bending radius                | 6×D                                                                                                               |
| AD8测试标准 AD8 test standard          | A 5-meter cable is placed in 90℃ water and connected to a 3.6KV DC voltage. The test is continued for 2016 hours. |
| 绝缘/护套材料 Insulation/sheath material | 125℃/TUV E-beam cross-linked polyolefin for offshore                                                              |
| 寿命 Life Period                     | ≥25 years                                                                                                         |

Structure 结构参数

| 标称截面<br>Cross Section<br>(mm <sup>2</sup> ) | 铜导体构造<br>Construction<br>(No. /mm±0.008) | 导体外径<br>DIA. (mm) | 绝缘厚度<br>Insulation<br>Thickness (mm) | 护套厚度<br>Jacket<br>Thickness (mm) | 线缆外径<br>Cable OD.<br>(mm) |
|---------------------------------------------|------------------------------------------|-------------------|--------------------------------------|----------------------------------|---------------------------|
| 1×2.5                                       | 49/0.25                                  | 2.02              | 0.8                                  | 0.8                              | 5.5±0.2                   |
| 1×4                                         | 56/0.285                                 | 2.46              | 0.8                                  | 0.8                              | 6.4±0.2                   |
| 1×6                                         | 84/0.285                                 | 3.05              | 0.8                                  | 0.8                              | 6.8±0.2                   |
| 1×10                                        | 142/0.285                                | 4.00              | 0.8                                  | 0.8                              | 8.0±0.2                   |
| 1×16                                        | 228/0.285                                | 5.00              | 0.9                                  | 0.9                              | 9.6±0.2                   |
| 1×25                                        | 361/0.285                                | 6.50              | 1.0                                  | 1.0                              | 11.2±0.3                  |
| 1×35                                        | 252/0.40                                 | 7.80              | 1.10                                 | 1.10                             | 12.5±0.3                  |
| 1×50                                        | 373/0.40                                 | 9.30              | 1.20                                 | 1.20                             | 15.0±0.4                  |

Package Data

| Package REF<br>包装规格  | Without Spool<br>包无线轴包装       | With Spool<br>线轴包装 |         |         |
|----------------------|-------------------------------|--------------------|---------|---------|
| MPQ (m) 最小包装(4mm2)   | 100m                          | 200m               | 400m    | 500m    |
| One Pallet 单托盘(4mm2) | 14,400m                       | 30,000m            | 18,000m | 12,000m |
| 20GP Container 20 尺柜 | 300,000m for 4mm <sup>2</sup> |                    |         |         |
|                      | 200,000m for 6mm <sup>2</sup> |                    |         |         |

**Electrical Data** 电气参数

| 标称截面<br>Cross Section<br>(mm <sup>2</sup> ) | 最大导体电阻 20℃ (Ω/km)<br>Conductor Max. Resistance<br>@20℃ (Ω/km) | 最小绝缘电阻 20℃ (MΩ·km)<br>Insulation Min. Resistance<br>@20℃ (MΩ·km) | 最小绝缘电阻 90℃ (MΩ·km)<br>Insulation Min. Resistance<br>@ 90℃ (MΩ·km) |
|---------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|
| 1×2.5                                       | 8.21                                                          | 862                                                              | 0.862                                                             |
| 1×4                                         | 5.09                                                          | 709                                                              | 0.709                                                             |
| 1×6                                         | 3.39                                                          | 610                                                              | 0.610                                                             |
| 1×10                                        | 1.95                                                          | 489                                                              | 0.489                                                             |
| 1×16                                        | 1.24                                                          | 395                                                              | 0.395                                                             |
| 1×25                                        | 0.795                                                         | 393                                                              | 0.393                                                             |
| 1×35                                        | 0.565                                                         | 335                                                              | 0.335                                                             |
| 1×50                                        | 0.393                                                         | 314                                                              | 0.314                                                             |

**Properties** 物理性能

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| 绝缘电阻 (20℃) Insulation resistance @20℃      | ≥ 709 MΩ·Km                          |
| 绝缘电阻 (90℃) Insulation resistance @90℃      | ≥ 0.709 MΩ·Km                        |
| 护套表面电阻 Surface resistance of sheath        | ≥10 <sup>9</sup> Ω                   |
| 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℃, 3%NaCl) 不击穿 No break |
| 绝缘抗张强度 Tensile strength of insulation      | ≥10.3Mpa                             |
| 护套抗张强度 Tensile strength of sheath          | ≥10.3Mpa                             |
| 护套伸长率 elongation of sheath                 | ≥125%                                |
| 护套热收缩 Shrinkage resistant                  | ≤2%                                  |
| 耐酸碱 Acid and alkali resistant              | EN60811-2-1                          |
| 耐臭氧 Ozone resistant                        | EN50396-8.1.3                        |
| 耐气候性 UV resistant                          | EN 50289-4-17                        |
| 动态穿透 Dynamic penetrate force               | EN 50618-Annex D                     |
| 低温卷绕 (-40℃,16h) Winding at low temperature | EN 60811-504                         |
| 低温冲击 (-40℃, 16h) Impact at low temperature | EN 60811-1-4                         |
| 耐燃 Fire performance                        | IEC60332-1-2                         |
| 氯溴含量 Cland Br Content                      | EN 50618                             |
| 热寿命 Thermal endurance Test                 | EN60216-1,EN60216-2, TI120           |

\* Customized options available, for more information, please contact LEADER sales team: [info@leadergroup-cn.com](mailto:info@leadergroup-cn.com).

