



额定电压 1500V



100m~6000m



低烟无卤阻燃



较好的耐油性



最大耐温 120℃



耐紫外辐照



IEC62930/EN50618



## 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
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
寿命 Life Period	≥25 years

## Structure 结构参数

标称截面 Cross Section (mm <sup>2</sup> )	铜导体构造 Construction (No. /mm±0.01)	导体外径 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	34/0.285	2.04	0.7	0.8	5.2
1×4	56/0.285	2.60	0.7	0.8	5.8
1×6	84/0.285	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

## Package Data

Package REF 包装规格	Without Spool 包无线轴包装	With Spool 线轴包装		
MPQ (m) 最小包装(4mm <sup>2</sup> )	250m	1000m	3000m	6000m
One Pallet 单托盘(4mm <sup>2</sup> )	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 Cross Section (mm <sup>2</sup> )	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	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

**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	EN60811-404
耐臭氧 Ozone resistant	EN60811-403/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 60811-506
耐燃 Fire performance	IEC60332-1-2 & UL VW-1
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 NIU Power sales team: [Marketing@niu-power.com](mailto:Marketing@niu-power.com).

