



DC 2000V



100m~6000m



Low Smoke Zero Halogen



Excellent Chemical & Oil resistance



-40℃ ~ +90℃



UV Resistance



UL4703



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	UL4703
额定电压 Rating voltage	DC2000V
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	200℃ 5S
弯曲半径 Bending radius	4×D
寿命 Life Period	≥25 years

Structure 结构参数

标称截面 Cross Section (AWG)	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)
14	41/0.254	1.88	1.14	0.76	5.90±0.2
12	65/0.254	2.36	1.14	0.76	6.30±0.2
10	105/0.254	3.10	1.14	0.76	7.10±0.25
8	168/0.254	4.25	1.40	0.76	8.40±0.35
6	266/0.254	5.35	1.40	1.14	10.60±0.5
4	420/0.254	6.70	1.40	1.14	12.00±0.5
2	665/0.254	8.45	1.40	1.14	13.80±0.5

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(12AWG)	100m	200m	400m	500m
One Pallet 单托盘(12AWG)	14,400m	30,000m	18,000m	12,000m
20GP Container 20 尺柜	300,000m for 12AWG			
	200,000m for 10AWG			



Electrical Data 电气参数

标称截面 Cross Section (AWG)	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)	电流承载能力 Current Carrying Capacity (A)
14	8.96	862	0.862	39
12	5.64	709	0.709	52
10	3.546	610	0.610	66
8	2.23	489	0.489	93
6	1.403	395	0.395	125
4	0.882	393	0.393	167
2	0.5548	335	0.335	207

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
表面电阻 Surface resistance	≥10 ⁹ Ω
成品电缆耐电压 Voltage test of finished cable	AC 6.5KV 5min, 不击穿 No break
线芯直流耐压 DC Voltage test of insulation	900V, 240h(85℃, 3%NaCl) 不击穿 No break
抗张强度 Tensile strength	≥10.3Mpa
伸长率 elongation	≥150%
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	UL854
低温冲击 (-40℃, 16h) Impact at low temperature	UL854
耐燃 Fire performance	UL1581 FT2
氯溴含量 Clad Br Content	EN 50618
热寿命 Thermal endurance Test	EN60216-1, EN60216-2, T1120

* Customized options available, for more information, please contact LEADER sales team: info@leadergroup-cn.com

