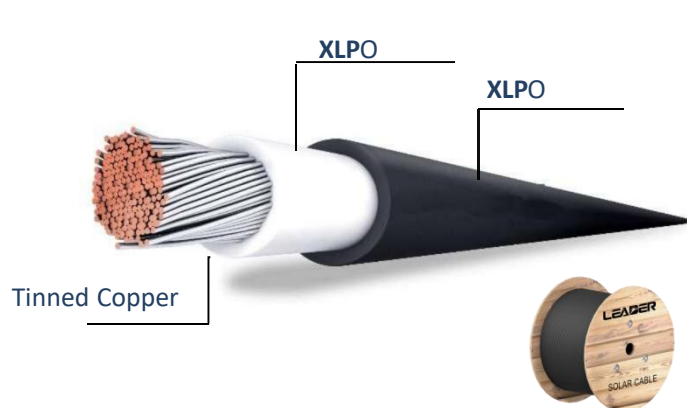


Solar Copper Cable 光伏铜线

POTENCIA VERDE
WIND • SOLAR • CONTRACTORS

LEADER



DC 2000V



100m~6000m



Low Smoke Zero Halogen



Excellent Chemical & Oil resistance



-40 °C~+90 °C



UV Resistance



UL 4703



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	UL 4703
额定电压 Rating voltage	DC 2000V
测试电压 Test voltage	AC 6.0kV OR 7.5KV, 50Hz 1min
工作温度 Working temperature	-40~+90°C
最高线温 Max Conduct temperature	120°C
短路温度 Short circuit temperature	200°C 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 (AWG)	铜导体构造 Construction (No./±0.008mm)	导体外径 DIA. (mm)	内层厚度 Inner layer (mm)	外层厚度 Outer layer (mm)	线缆外径 Cable OD. (mm)
14	41/0.254	1.85	1.14	0.76	5.70±0.2
12	65/0.254	2.32	1.14	0.76	6.20±0.2
10	105/0.254	2.95	1.14	0.76	6.90±0.25
8	168/0.254	3.71	1.40	0.76	8.50±0.35
6	266/0.254	4.67	1.40	1.14	10.60±0.5
4	420/0.254	5.89	1.40	1.14	12.00±0.5
2	665/0.254	7.42	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 Setion (AWG)	最大导体电阻 20°C(Ω/km) Conductor Max. Resistance @20°C (Ω/km)	水中耐压测试 Underwater Voltage Withstand Test (AC kV)	电流承载能力 A (30°C, 不超过 3根) Current Carrying Capacity A (30°C Not More Than Three)
14	8.96	6.0	25
12	5.64	6.0	30
10	3.546	6.0	40
8	2.23	7.5	55
6	1.403	7.5	75
4	0.882	7.5	95
2	0.555	7.5	130

Main Properties 主要性能

阻燃测试 Flame retardant test	UL 2556 VW-1
耐热老化测试 Thermal aging resistance test	UL 44 (110±1°C) 10d, ≥75%
相对介电常数 Relative permittivity	UL 44 24h 90±1°C ≥6
成品电缆耐电压 Voltage test of finished cable	UL 2556 Immerse for 6 hours first AC 6.0 or 7.5kV 1min, No break
热蠕变伸长率 Thermal creep elongation	UL 2556 150±2°C 15min ≥175%
抗张强度 Tensile strength	UL 44 ≥10.3Mpa
最小绝缘电阻 Insulation Min	UL 44
伸长率 Elongation	UL 44 ≥150%
卤酸气体释放 Halogen acid gas emission	UL 2556 ≤20%
耐候性 UV resistant	UL 2556 720h ≥80%
低温卷绕 Winding at low temperature	UL 2556 -40°C 4h No cracks shall be present
低温冲击 Impact at low temperature	UL 2556 -40°C 4h No cracks shall be present
导体腐蚀 Conductor Corrosion	UL 44 121°C 7 Days No corrosion
热变形测试: Thermal Deformation Test	UL 2556 ≥30%

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