



DC 1500V



100m~5000m



Low Smoke Zero Halogen



Excellent Chemical & Oil resistance



-40°C ~ +90°C



UV Resistance



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°C
最高线温 Max Conduct temperature	120°C
短路温度 Short circuit temperature	250°C 5S
弯曲半径 Bending radius	4xD
寿命 Life Period	≥25 years

Structure 结构参数

标称截面 Cross Section (mm ²)	铜导体构造 Construction (No. / ±0.008mm)	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. (±0.2mm)
1×1.5	30/0.283	1.58	0.7	0.8	5.0
1×2.5	49/0.283	2.02	0.7	0.8	5.4
1×4	56/0.285	2.46	0.7	0.8	5.6
1×6	84/0.283	3.02	0.7	0.8	6.3
1×10	142/0.283	4.00	0.7	0.8	7.6
1×16	228/0.283	5.00	0.7	0.8	9.3
1×25	361/0.283	6.50	0.9	1.0	11.0
1×35	252/0.4	7.80	0.9	1.1	12.5
1×50	373/0.4	9.00	1.0	1.2	15.0
1×70	340/0.5	11.2	1.1	1.2	17.0
1×95	456/0.5	13.5	1.1	1.3	18.0
1×120	570/0.5	14.4	1.2	1.3	20.0
1×150	722/0.5	16.2	1.4	1.4	22.0
1×185	850/0.5	17.8	1.6	1.6	24.5
1×240	1112/0.5	20.5	1.7	1.7	29.5

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(4mm ²)	100m	200m	400m	500m
One Pallet 单托盘(4mm ²)	14,400m	30,000m	18,000m	12,000m
20GP Container 20 尺柜	300,000m for 4mm ²			
	200,000m for 6mm ²			



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)	电流承载能力 Current Carrying Capacity (A)
1×1.5	13.7	1050	0.1050	31
1×2.5	8.21	862	0.862	42
1×4	5.09	709	0.709	57
1×6	3.39	610	0.610	72
1×10	1.95	489	0.489	98
1×16	1.24	393	0.393	132
1×25	0.795	395	0.395	183
1×35	0.565	335	0.335	227
1×50	0.393	314	0.314	287
1×70	0.277	291	0.291	361
1×95	0.210	258	0.258	433
1×120	0.164	249	0.249	508
1×150	0.132	260	0.260	590
1×185	0.108	268	0.268	671
1×240	0.0817	249	0.249	808

The current-carrying capacity values shown are based on a single-core cable installed singly in free air, at a reference ambient temperature of 30°C and a maximum continuous conductor operating temperature of 90°C. For other installation conditions, the values shall be corrected by applying appropriate derating factors.

Main Properties 主要性能

护套表面电阻 Surface resistance of sheath	≥10 ⁹ Ω
成品电缆耐电压 Voltage test of finished cable	AC 6.5KV 5min No break
绝缘线芯直流耐压 DC Voltage test of insulation	1800V DC 85℃ 240h No break
绝缘抗张强度 Tensile strength of insulation	EN60811-501 ≥8.0Mpa
绝缘伸长率 elongation of insulation	EN60811-501 ≥125%
热延伸 Hot set test	EN60811-507 250±3℃ 15min ≤100%
护套热收缩 Shrinkage resistant	EN60811-503 120℃ 1h 300mm ≤2%
耐酸碱 Acid and alkali resistant	EN60811-404 23℃ 7×24h ±30%
耐臭氧 Ozone resistant	EN60811-403/EN 50396
耐气候性 UV resistant	EN 50618-AnnexE&EN 50289-4-17
动态穿透 Dynamic penetrate force	EN 50618-Annex D
低温卷绕 Winding at low temperature	EN 60811-504 -40℃ 16h
低温冲击 Impact at low temperature	EN 60811-506 -40℃ 16h
耐燃 Fire performance	IEC60332-1-2 & UL VW-1& Eca
氯溴含量 Cl and Br Content	EN 505251-AnnexB
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.

