



DC 1500V



100m~5000m



Low Smoke Zero Halogen



Acid Resistance & Alkali



-40℃ ~ +125℃



UV Resistance



TUV 2PFG 2693/CE



Specification 技术参数

应用范围 Application	电池储能系统连接线缆 Internal wiring for Battery Energy Storage System
认证 Approval	TUV 2PFG 2693/CE
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~+125℃
最高线温 Max Conduct temperature	120℃
环境温度 Ambient temperature	-20~+60℃
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 ²)	铜导体构造 Construction (No. /mm±0.1)	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)
1×10	74/0.4	3.97	1.00	1.10	8.20
1×16	120/0.4	5.20	1.10	1.10	10.20
1×25	182/0.4	6.50	1.30	1.20	12.00
1×35	252/0.4	7.80	1.30	1.30	13.20
1×50	373/0.4	9.00	1.50	1.40	15.50
1×70	340/0.5	11.20	1.50	1.40	17.50
1×95	456/0.5	13.00	1.50	1.50	19.50
1×120	570/0.5	14.50	1.50	1.60	21.00
1×150	722/0.5	16.20	1.70	1.70	24.00
1×185	850/0.5	17.80	1.90	1.80	26.00
1×240	1112/0.5	20.50	2.00	1.90	30.00

Package Data 包装

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)
1×10	1.95	489	0.489	79
1×16	1.24	393	0.393	105
1×25	0.795	395	0.395	138
1×35	0.565	335	0.335	169
1×50	0.393	314	0.314	211
1×70	0.277	291	0.291	269
1×95	0.210	258	0.258	328
1×120	0.164	249	0.249	391
1×150	0.132	260	0.260	459
1×185	0.108	268	0.268	527
1×240	0.0817	249	0.249	639

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 ⁹ 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 电池液 Acid and alkali resistant	EN60811-404 ISO6722-1
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 Clad 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.

