



DC 1500V



100m~5000m



Low Smoke Zero Halogen



Acid Resistance & Alkali



-40°C ~ +125°C



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°C
最高线温 Max Conduct temperature	125°C
环境温度 Ambient temperature	-40~+60°C
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. / ±0.1mm)	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)
1×10	74/0.4	4.30	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°C(Ω/km) Conductor Max. Resistance @20°C (Ω/km)	最小绝缘电阻 20°C (MΩ·km) Insulation Min. Resistance @20°C (MΩ·km)	最小绝缘电阻 90°C (MΩ·km) Insulation Min. Resistance @ 90°C (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

导体电阻 Conductor Resistance	EN 60228 Class 5 conductor
绝缘体积电阻率 Insulation Volume Resistivity	≥10 ¹¹ Ω.cm
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 6.8kV 5min, 不击穿 No break
绝缘线芯直流耐压 DC Voltage test of insulation	1500V DC 240h 85°C, 不击穿 No break
绝缘抗张强度 Tensile strength of insulation	≥9.0Mpa
护套抗张强度 Tensile strength of sheath	≥9.0Mpa
护套伸长率 Elongation of sheath	≥120%
护套热收缩 Shrinkage resistant	158±3°C 1h 500mm ≤4%
耐电池酸测试 Resistance to battery acid test	ISO19642-2 Battery acid:25% H ₂ SO ₄ and 75% H ₂ O
单根垂直燃烧 Flame spread test on single cables	EN 60332-1-2
耐气候性 UV resistant	EN 50289-4-17
热延申 Hot set test	EN 60811-507 200±3°C 15min
低温卷绕 Winding at low temperature	EN 60811-504 -40°C 16h
低温冲击 Impact at low temperature	EN 60811-506 -40°C 16h
烟密度 Smoke density	EN 61034-2 >60%
热寿命 Thermal endurance Test	EN60216-1,EN60216-2, TI125

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

