



Specification 技术参数

电缆材料 MATERIAL

- ①导体：不镀锡或镀锡的退火软绞铜 Construction: Tinned copper wire
 ②绝缘：低烟无卤交联聚烯烃 INSULATION: HALOGEN FREE LOW SMOKE XLPE
 ③护套：低烟无卤交联聚烯烃 COVER: HALOGEN FREE LOW SMOKE XLPE

Electrical Data 电气参数

导体尺寸 Size of conductor (mm ²)	导体构造 Construction (No./mm±0. 015)	近似绞合 外径 DIA. (mm)	绝缘厚度 Insulation Thickness (mm)	绝缘最薄点厚度 Min. Insulation Thickness (mm)	绝缘最大外径 Cable MAX.Id. (mm±0.2)	护套厚度 sheath Thickness (mm)	护套最薄点厚度 Min. sheath Thickness (mm)	线缆外径 Cable OD (mm)
4	56/0.285	2.46	0.8	0.62	4.8	0.7	0.50	5.6
6	84/0.285	3.02	0.8	0.62	5.3	0.7	0.50	6.4
10	74/0.40	3.94	1.0	0.80	6.8	0.7	0.50	7.8
16	120/0.40	5.2	1.1	0.89	8.4	0.7	0.50	9.0
25	182/0.40	6.5	1.3	1.07	10.4	0.8	0.58	10.6
35	252/0.40	7.6	1.3	1.07	11.9	0.8	0.58	12.2
50	373/0.40	9.0	1.5	1.25	14.2	0.8	0.58	15.9
70	340/0.50	11.1	1.5	1.25	16.2	0.9	0.67	17.9
95	447/0.50	13.1	1.5	1.25	18.0	0.9	0.67	21.2
120	568/0.50	14.8	1.5	1.25	20.0	0.9	0.67	21.5
150	694/0.50	16.0	1.7	1.43	22.3	1.0	0.75	24.6
185	850/0.50	17.7	1.9	1.61	24.7	1.0	0.75	27.1
240	1112/0.50	20.3	2.0	1.70	28.0	1.1	0.84	30.5

导体要求：导体的等级应符合 IEC 60228 CLASS 5，允许导体根数偏差±5%。
 The class of the conductor shall be IEC 60228 CLASS 5 , The allowable deviation of conductor number is ± 5%.



Properties 物理性能

测试项目		测试标准	Test method
		低烟无卤交联聚烯烃 YJ	
绝缘/护套伸长率 elongation of insulation/sheath	老化前 test are before aging	200%↑	GB/T 2951.11
绝缘/护套抗张强度 Tensile strength of insulation/sheath		8.0MPa↑	
绝缘/护套伸长率 elongation of insulation/sheath	老化后 test are after aging	>70% elongation before aging	GB/T 2951.11
绝缘/护套抗张强度 Tensile strength of insulation/sheath		>70% Tensil Strength before aging	
成品浸水耐压（水温：(20±5)℃）Withstand voltage		AC 6,5kV 5min；不击穿 No break	
耐直流电压（水温为 (85±5)℃；240h）Withstand DC voltage		DC 1500V 不击穿 No break	
护套表面电阻，最小 Sheath surface resistance, min		10 ⁹ Ω	
热延伸试验（250±3℃，15min,20N/cm²）		载荷下最大伸长率 175%,冷却后最大永久伸长率 15%Maximum elongation under load 175%, maximum permanent elongation after cooling 15%	
低温卷绕（-40℃，4h）Low temperature winding		不开裂 No break	
低温冲击（-40℃，4h）Impact at low temperature		不开裂 No break	
热收缩 Shrinkage resistant（158±2℃，1h）		≤4%	
耐酸碱 Acid and alkali resistant		CQC1143 & PPP58049A 表 6	
耐液体（电池酸）Resistance to liquid chemicals		CQC1143 & PPP58049A 附录 A	
环保性能 Environmental performance		符合 RoHS	
烟密度试验 Smoke density test		GB/T 17651.2-1998，透光率不低于 60%	
耐燃 Fire performance		单根垂直燃烧 single vertical combustion	
热寿命 Thermal endurance Test		GB/T 11026.1-2016,GB/T 11026.2-2012,T1125	

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



Electrical Specification 电气性能

导体尺寸 Size of conductor (mm ²)	最大导体电阻 20℃ (Ω/km) Conductor Max. Resistance AT 20℃ (Ω/km)	最小绝缘体积电阻率 (Ω·cm) Min. Insulation volume resistivity (Ω·cm)
4	5.09	10 ¹¹
6	3.39	
10	1.95	
16	1.24	
25	0.795	
35	0.565	
50	0.393	
70	0.277	
95	0.210	
120	0.164	
150	0.132	
185	0.108	
240	0.0817	

Application 应用

应用范围 Application	适用于电力储能系统中直流侧的电池模块之间、电池簇之间、电池簇与汇流箱或电池簇与储能变流器之间的电缆。 It is suitable for between battery modules, between battery clusters, between battery clusters and combiner boxes, or between battery clusters and storage in power energy storage systems. cables between the converters.
认证 Approval	CQC1143 & PPP58049A
额定电压 Rating voltage	1500V (DC)
工作温度 Working temperature	- 40~125℃
弯曲半径 Bending radius	6×D

