

常州市丰国金鳄电缆有限公司

Changzhou Fengguo Jin'e Cable Co., Ltd.

光伏电缆及配件产品说明书

PV SOLAR CABLE&ACCESSORIES



企业简介 Company Profiles

常州市丰国金鳄电缆有限公司是一家致力于生产研发高品质太阳能光伏线缆，各类电动车电机连接线，各类耐高温，耐老化，耐腐蚀等特种电线电缆的专业生产研发企业。公司自成立以来以市场为核心，以产品为导向，以技术为基础，面向国内外市场，大力推行品牌实施战略。

公司拥有各种电线电缆制造、加工、检测设备，其中电线电缆挤出设备 20 台，年生产加工能力可达 15 万 KM，我们雄厚的研发及生产加工技术力量，能够根据客户的需要开发研制各类线缆产品。

公司为适应市场和企业自身的发展需要不断引进生产设备，检测设备并加强对现有设备技术的改造，竭力引进科技人才，开发高新技术线缆产品、提高企业生产力，为控制产品质量，公司一直致力于企业生产检测标准化及内部控制规范化建设，公司产品严格执行国际先进标准、国家标准、行业标准、企业标准。多年来我们与许多来自国内外的客户建立了长期密切的合作关系，我们深刻认识到产品的质量和后续服务绝不能出现任何问题。我们施行全面的管理体系，经过多年精工淬炼和不懈努力，我们公司先后取得了 ISO9000、ISO14000、OHSAS-18000、TS16949 等体系认证，公司产品通过了 CCC 产品安全认证、德国 TUV 及美国 UL、加拿大 CSA 联合认证。

公司多年来坚持以注重管理效益，注重服务信誉，以信誉争客户，以价格争市场，以质量求生存，以科技求发展为宗旨。使我们的产品精益求精、尽善尽美。丰国金鳄电缆以“追求品质，求实发展”为经营理念，公司将以务实的精神、凭借强大的科技创新能力，致力于绿色、安全、环保、技术型线缆产品的研发及其制造，为打特种线缆领域的著名品牌“FENGUOJINE”而努力。

丰国金鳄线缆真诚希望与国内外客商精诚合作，共创美好未来。

Changzhou Fengguo Jin'e Cable Co., Ltd. was founded in March, 2005, located in Furong Industrial Park, Henshan Bridge Town, Wujin District, Changzhou, Jiangsu Province. We are a professional manufacturer, hammering at researching and producing all kinds of electric installation connecting wires, solar cables, High temperature wires & cables, automobile cables, high-quality motor winding wires and special types of wires & cables. Our company has 10 extrusion lines and auxiliary inspection and test equipment, ensuring product quality.

Our company passed ISO9001, QMS, CCC, CE, CSA and UL certificates in 2005, German TUV certificate in 2010 and UL Certificate in 2011. We have continually improved the product quality. Our company establishes a quality management and environmental management system, providing a solid foundation for sustainable and stable development.

Since the establishment, our company has followed the concept of "market-oriented, product-oriented, technology-based, and takes quality as the lifeline of an enterprise". We aim to meet the needs of domestic and overseas markets and create a famous brand. Our company has broad market prospects and our products are widely applied in power distribution systems, automobiles, electrical wiring harness, UPS, transformers, motors, sensors, thermal protection and new energy and other industrial and civil fields.

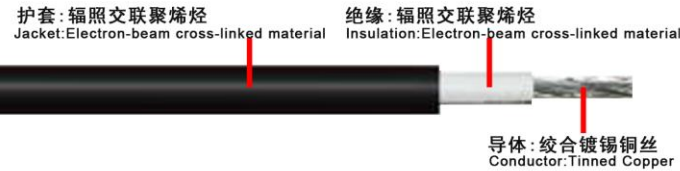
Our business objectives: to develop new products, to attract the best technical research and management persons; to honor the business philosophy of establishing win-win relationships with suppliers and customers; be committed to providing customers with reliable services

If you are interested in any of our products or would like to discuss a customized order, please feel free to contact us. We are looking forward to forming successful business relationships with new clients around the world in the near future. Indicates information has been verified onsite by a certification specialist

TÜV PV1-F

产品认证 Approvals

TÜV 2PFG 1169 PV1-F 1X1.5mm² ~35mm² (全系列) Multiple color



结构 Construction	导体结构 Conductor Construction	绞合外径 Conductor Outer	成品外径 Cable Outer	最大电阻 Resistance Max.	载流量 Current Carrying Capacity AT 60°C
mm ²	nxmm	mm	mm	Ω/Km	A
1X1.5	30X0.25	1.58	4.9	13.7	30
1X2.5	48X0.25	2.02	5.45	8.21	41
1X4.0	56X0.3	2.35	6.10	5.09	55
1X6.0	84X0.3	3.20	7.20	3.39	70
1X10	142X0.3	4.60	9.00	1.95	98
1x16	228X0.3	5.60	10.20	1.24	132
1x25	361X0.3	6.95	12.00	0.795	176
1x35	494X0.3	8.30	13.80	0.565	218

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

技术参数 Technical Date

额定电压 Nominal voltage	直流 (DC) :1.8KV 交流 (AC) :0.6/1.0KV
成品电压测试 Voltage test on completed cable	交流 (AC) :6.5KV 直流 (DC) :15KV,5MIN
环境温度 Ambient temperature	-40°C~+90°C
导体最高温度 Max. Temperature at conductor	+120°C
使用寿命 Service life	>25 年 (-40°C~+90°C)
参考短路允许温度 Refer to short circuit allows the temperature	200°C, 5 秒 (S)
弯曲半径 Bending radius	≥4×φ (D<8MM), ≥6×φ (D≥8MM)
耐酸碱测试 Resistance against acid and alkaline solution	EN60811-2-1
冷弯实验 Cold bending test	EN60811-1-4
耐日光测试 Weathering/UV- resistance	HD605/A1
成品电缆耐臭氧测试 O-zone resistance at complete cable	EN50396
阻燃测试 Test under fire conditions	EN60332-1-2

EN H1Z2Z2-K

产品认证 Approvals

TÜV EN 50618-2014 H1Z2Z2-K 1X1.5mm² ~35mm² (全系列) Multiple color



结构 Construction	导体结构 Conductor Construction	绞合外径 Conductor Outer	成品外径 Cable Outer	最大电阻 Resistance Max.	载流量 Current Carrying Capacity AT 60°C
mm ²	nxmm	mm	mm	Ω/Km	A
1X1.5	30X0.25	1.58	4.60	13.7	30
1X2.5	47X0.25	1.98	5.10	8.21	41
1X4.0	56X0.283	2.35	5.50	5.09	55
1X6.0	84X0.283	3.06	6.30	3.39	70
1X10	142X0.3	4.60	7.80	1.95	98
1x16	228X0.3	5.60	9.20	1.24	132
1x25	361X0.3	6.95	11.30	0.795	176
1x35	494X0.3	8.30	13.30	0.565	218

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

技术参数 Technical Date

额定电压 Nominal voltage	直流 (DC) :1.5KV 交流 (AC) :1.0/1.0KV
成品电压测试 Voltage test on completed cable	交流 (AC) :6.5KV 直流 (DC) :15KV,5MIN
环境温度 Ambient temperature	-40°C~+90°C
热寿命试验 Thermal endurance properties	+120°C, 2000h 断裂伸长率 elongation at break ≥50%
使用寿命 Service life	>25 年 (-40°C~+90°C)
参考短路允许温度 Refer to short circuit allows the temperature	200°C, 5 秒 (S)
弯曲半径 Bending radius	≥4×φ (D<8MM), ≥6×φ (D≥8MM)
耐酸碱测试 Resistance against acid and alkaline solution	EN60811-404
冷弯实验 Cold bending test	EN60811-504
耐日光测试 Weathering/U- resistance	HD605/A1
成品电缆耐臭氧测试 O-zone resistance at complete cable	EN50396
阻燃测试 Test under fire conditions	EN60332-1-2

UL PV

产品认证 Approvals

UL4703 PV 18AWG~4/0AWG (全系列) Multiple color



结构 Construction	导体结构 Conductor Construction	标称截面 Cominal area	600V 外径 Outer	1000V/2000V 外径 Outer	最大电阻 Resistance Max.
AWG	nxmm	mm ²	mm	mm	Ω/Km
18	16X0.254	0.823	4.25	5.00	23.2
16	26X0.254	1.31	4.55	5.30	14.6
14	41X0.254	2.08	5.10	5.90	8.96
12	47X0.3	3.31	5.50	6.20	5.64
10	105X0.254	5.261	6.30	7.05	3.546
8	168X0.254	8.367	8.30	8.70	2.23
6	266X0.254	13.3	9.80	10.30	1.403
4	420X0.254	21.15	11.70	11.60	0.882
2	665X0.254	33.62	13.30	13.40	0.5548
1	836X0.254	42.41	15.20	16.10	0.4398
1/0	1045X0.254	53.49	17.00	17.10	0.3487
2/0	1330X0.254	67.43	18.30	18.80	0.2766
3/0	1672X0.254	85.01	19.80	20.40	0.2194
4/0	2109X0.254	107.2	21.50	21.80	0.1722

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

技术参数 Technical Date

额定电压 Nominal voltage	U=600,1000/2000VAC
成品电压测试 Voltage test on completed cable	U=600,1000/2000VAC
环境温度 Ambient temperature	-40℃~+90℃
使用寿命 Service life	>25 年 (-40℃~+90℃)
稳定因素 Stability factor	UL854
相对介电常数 Relative permittivity	UL854
耐酸碱测试 Resistance against acid and alkaline solution	UL854
冷弯实验 Cold bending test	UL854
耐日光测试 Weathering/U- resistance	UL2556
阻燃测试 Test under fire conditions	UL1581 VW-1

TÜV PV1-F&UL PV 双认证 Dual Certification

产品认证 Approvals

PV1-F/PV 1X1.5mm² ~35mm² (16AWG~2AWG) (全系列) Multiple color



结构 Construction	导体结构 Conductor Construction	绞合外径 Conductor Outer	成品外径 Cable Outer	最大电阻 Resistance Max.	载流量 Current Carrying Capacity AT 60℃
mm ² /AWG	nxmm	mm	mm	Ω/Km	A
1X1.5/16#	30X0.25	1.58	4.65	13.7	30
1X2.5/14#	47X0.25	1.98	5.20	8.21	41
1X4.0/12#	56X0.283	2.35	5.60	5.09	55
1X6.0/10#	84X0.283	3.06	6.30	3.39	70
1X10/8#	142X0.3	4.60	9.80	1.95	98
1x16/6#	228X0.3	5.60	11.00	1.24	132
1x25/4#	361X0.3	6.95	12.40	0.795	176
1x35/2#	494X0.3	8.30	13.90	0.565	218

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

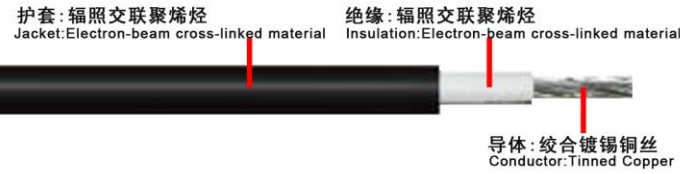
技术参数 Technical Date

额定电压 Nominal voltage	直流 (DC) :1.5KV 交流 (AC) :1.0/1.0KV
成品电压测试 Voltage test on completed cable	交流 (AC) :6.5KV 直流 (DC) :15KV,5MIN
环境温度 Ambient temperature	-40℃~+90℃
热寿命试验 Thermal endurance properties	+120℃,2000h 断裂伸长率 elongation at break ≥50%
使用寿命 Service life	>25 年 (-40℃~+90℃)
参考短路允许温度 Refer to short circuit allows the temperature	200℃,5 秒 (S)
弯曲半径 Bending radius	≥4×φ (D<8M), ≥6×φ (D≥8MM)
耐酸碱测试 Resistance against acid and alkaline solution	EN60811-2-1
冷弯实验 Cold bending test	EN60811-1-4/UL854
耐日光测试 Weathering/U- resistance	HD605/A1/UL2556
成品电缆耐臭氧测试 O-zone resistance at complete cable	EN50396
阻燃测试 Test under fire conditions	EN60332-1-2/UL1581 VW-1

EN H1Z2Z2-K&UL PV 双认证 Dual Certification

产品认证 Approvals

TÜV EN 50618-2014 H1Z2Z2-K 1X1.5mm² ~35mm² (16AWG~2AWG) (全系列) Multiple color



结构 Construction	导体结构 Conductor Construction	绞合外径 Conductor Outer	成品外径 Cable Outer	最大电阻 Resistance Max.	载流量 Current Carrying Capacity AT 60°C
mm ² /AWG	nxmm	mm	mm	Ω/Km	A
1X1.5/16#	30X0.25	1.58	4.65	13.7	30
1X2.5/14#	47X0.25	1.98	5.20	8.21	41
1X4.0/12#	56X0.283	2.35	5.60	5.09	55
1X6.0/10#	84X0.283	3.06	6.30	3.39	70
1X10/8#	142X0.3	4.60	9.80	1.95	98
1x16/6#	228X0.3	5.60	11.00	1.24	132
1x25/4#	361X0.3	6.95	12.40	0.795	176
1x35/2#	494X0.3	8.30	13.90	0.565	218

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

技术参数 Technical Date

额定电压 Nominal voltage	直流 (DC) :1.5KV 交流:1.0/1.0KV
成品电压测试 Voltage test on completed cable	交流 (AC) :6.5KV 直流:15KV,5MIN
环境温度 Ambient temperature	-40°C~+90°C
导体最高温度 Max. Temperature at conductor	+120°C
使用寿命 Service life	>25 年 (-40°C~+90°C)
参考短路允许温度 Refer to short circuit allows the temperature	200°C, 5 秒 (S)
弯曲半径 Bending radius	≥4×φ (D<8M), ≥6×φ (D≥8MM)
耐酸碱测试 Resistance against acid and alkaline solution	EN60811-2-1
冷弯实验 Cold bending test	EN60811-1-4
耐日光测试 Weathering/U- resistance	HD605/A1
成品电缆耐臭氧测试 0 zone resistance at complete cable	EN50396
阻燃测试 Test under fire conditions	EN60332-1-2

TÜV PV1-F 双并线 TWIN CABLE

产品认证 Approvals

TÜV 2PFG 1169 PV1-F 2X1.5mm² ~10mm² (全系列) Multiple color



结构 Construction	导体结构 Conductor Construction	绞合外径 Conductor	成品外径 Outer	最大电阻 Resistance Max.	载流量 Current Carrying Capacity AT 60°C
mm ²	nxmm	mm	mm	Ω/Km	A
2X1.5	30X0.25	1.58	4.9	13.7	30
2X2.5	48X0.25	2.02	5.45	8.21	41
2X4.0	56X0.3	2.35	6.10	5.09	55
2X6.0	84X0.3	3.20	7.20	3.39	70
2X10	142X0.3	4.60	9.00	1.95	98

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

技术参数 Technical Date

额定电压 Nominal voltage	直流 (DC) :1.8KV 交流:0.6/10KV
成品电压测试 Voltage test on completed cable	交流 (AC) :6.5KV 直流:15KV,5MIN
环境温度 Ambient temperature	-40°C~+90°C
导体最高温度 Max. Temperature at conductor	+120°C
使用寿命 Service life	>25 年 (-40°C~+90°C)
参考短路允许温度 Refer to short circuit allows the temperature	200°C, 5 秒 (S)
弯曲半径 Bending radius	≥4×φ (D<8M), ≥6×φ (D≥8MM)
耐酸碱测试 Resistance against acid and alkaline solution	EN60811-2-1
冷弯实验 Cold bending test	EN60811-1-4
耐日光测试 Weathering/U- resistance	HD605/A1
成品电缆耐臭氧测试 0 zone resistance at complete cable	EN50396
阻燃测试 Test under fire conditions	EN60332-1-2

ALUMINUM PV CABLE 铝合金光伏电缆

产品认证 Approvals

PV 12AWG~2000Kcmil (全系列) Multiple color



导体横截面 Cross Section	导体根数 Conductor NO.	绞合外径 Conductor	600V 外径 Outer	1000V/2000V 外径 Outer	最大电阻 Resistance Max.
AWG	n	mm ²	mm	mm	Ω/Km
3/0	58	10.4	16.7	17.2	0.3459
4/0	58	12.6	18.9	19.3	0.2743
250Kcmil	58	14.3	22.1	22.6	0.2322
350Kcmil	58	15.8	23.6	24.1	0.1659
500Kcmil	58	19.2	27.0	27.5	0.1161
600Kcmil	58	20.8	29.4	29.9	0.09673
700Kcmil	58	22.5	31.1	31.6	0.08291

载流量为电缆单根敷设于空气中情况。

The current-carrying capacity is under the situation of laying the single cable in air.

技术参数 Technical Date

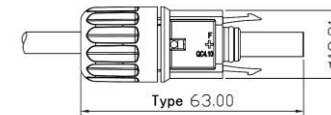
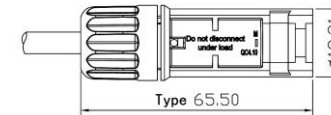
额定电压 Nominal voltage	U=600,1000/2000VAC
成品电压测试 Voltage test on completed cable	U=600,1000/2000VAC
环境温度 Ambient temperature	-40℃~+90℃
使用寿命 Service life	>25年 (-40℃~+90℃)
稳定因素 Stability factor	UL854
相对介电常数 Relative permittivity	UL854
耐酸碱测试 Resistance against acid and alkaline solution	UL854
冷弯实验 Cold bending test	UL854
耐日光测试 Weathering/U- resistance	UL2556
阻燃测试 Test under fire conditions	UL1581 VW-1

太阳能光伏连接器及延长线

产品认证 Approvals



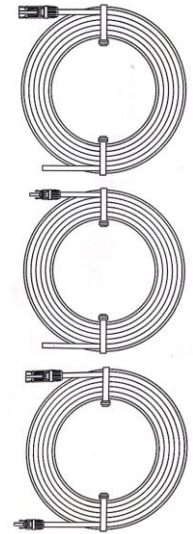
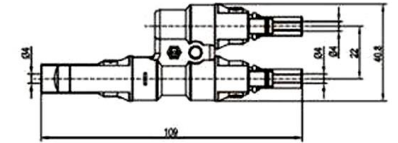
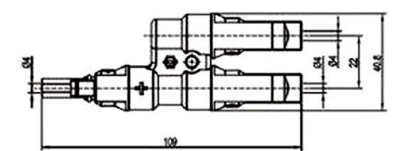
MC4 公母快速连接器



光伏连接器延长线制品: 标准长度 1m~100m (任意)



MC4 公母 T 型分支连接器



技术参数 Technical Date PV-CXLH0610-1

绝缘材料 Insulation Material	PC or PV40Z
接触材料 Contact Material	紫铜镀锡 Red copper Tin Plated
接触电阻 Contact resistance	≤0.5m
额定电压 Rated Voltage	PC 1000VDC or PV40Z 1500VDC
核定电流 Rated Current	30A
抗拉力 Tensile resistance	100N
温度 Temperature Range	-40~+85℃
线缆范围 Cable Range	2.5~6m ²
保护等级 Protection Degree	IP67
安全等级 Safety Class	CLASII
阻燃等级 Flame Class	UL94-V0

产品包装 PRODUCT PACKAGING



1.空心卷包装 Reel package
50m/Roll,100m/Roll,250m/Roll,500m/Roll.

2.木盘包装 Durm package plus pallet
1000m/P,2000m/P,4000m/P.

3.塑料盘包装+木箱 Durm mounted,packed in wooden cases 1
100m/P,200m/P.

4.塑料盘包装+木托 The pallet placed multiple drum
100m/P,200m/P.

常州市丰国金鳄电缆有限公司

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