光伏电缆电缆

1 产品标准

- 2 PfG 1169
- EN 50618

2 适用范围

产品主要应用于太阳能连接设备、太阳能电站、光伏系统等多领域。

3 使用特性

3.1 额定电压

3.1.1 2 PfG 1169 标准中 AC：U_0/U=0.6/1kV　DC：1.8 kV;;。

3.1.2 EN 50618 标准中 AC：U_0/U=1.0/1.0kV　DC：1.5 kV。

3.2 电缆导体允许长期最高工作温度为 90℃，允许在 120℃下工作 20000 小时。

3.3 2 PfG 1169 短路时（最长持续时间不超过 5s）电缆导体的最高温度不超过 200℃。

EN 50618 短路时（最长持续时间不超过 5s）电缆导体的最高温度不超过 250℃

3.4 电缆敷设时环境温度应不低于 0℃。

3.5 电缆弯曲半径：不小于电缆外径的 4 倍。

4 电缆型号

产 品 标 准	型　　号	芯　　数	标 称 截 面 mm^2
2 PfG 1169	PV1-F	1	2.5～6
EN 50618	H1Z2Z2-K	1-2	2.5～6

5 产品特点

5.1 导体

采用符合 EN 60228 中第 5 类镀锡圆铜线

5.2 绝缘

绝缘采用无卤低烟阻燃辐照交联聚烯烃材料，是一种具有优良机械性能与电气性能的环保材料，经辐照交联后其允许导体在 120℃下工作 20000 小时。

5.3 护套

护套采用无卤低烟阻燃辐照交联聚烯烃材料，其具备抗臭氧、防紫外线、耐酸碱、耐高温、耐凹痕、无卤、阻燃等特性，可有标准的接头、连接系统兼容。

5.4 太阳能作为一种可永续利用的清洁能源，有着巨大的开发应用潜力。虽然太阳能光伏发电成本较高，但从长远来看，随着技术的进步，以及其他能源利用形式的逐渐饱和，太阳能将在2030年之后成为主流能源利用形式，有着不可估量的发展潜力。

6 产品主要技术参数

型号	芯数×标称截面 n×mm²	电缆近似外径 mm	电缆近似重量 kg/km	载流量 A		
				单根电缆 空气中	单根电缆 置于表面	两根电缆紧挨 置于表面
PV1-F	1×2.5	5.1	44.1	41	39	33
PV1-F	1×4	5.5	57.8	55	52	44
PV1-F	1×6	6.4	82.9	70	67	57
H1Z2Z2-K	1×2.5	5.5	48.7	41	39	33
H1Z2Z2-K	1×4	5.9	62.7	55	52	44
H1Z2Z2-K	1×6	6.8	88.6	70	67	57
H1Z2Z2-K	2×2.5	5.5×11.5	98.0	41	39	33
H1Z2Z2-K	2×4	5.9×12.3	126	55	52	44
H1Z2Z2-K	2×6	6.8×14.1	178	70	67	57

温度偏差转换因数

环境温度 ℃	转换因数
60	1.00
70	0.91
80	0.82
90	0.71
100	0.58
110	0.41

7 产品报告

7.1 2 PfG 1169 TÜV 认证证书

Certificate

TÜVRheinland

Certificate no. T 50404689 01

License Holder:
Zhejiang Chint Cable Co., Ltd.
No. 1 Jiangnan Road
Nanhu Industrial Park
Jiaxing City, Zhejiang 314006
P. R. China

Manufacturing Plant:
Zhejiang Chint Cable Co., Ltd.
No. 1 Jiangnan Road
Nanhu Industrial Park
Jiaxing City, Zhejiang 314006
P. R. China

Test report no.: JJX 15033812 004 **Client Reference:** P.X.
Tested to: 2 PfG 1169/08.07

Certified Product: (Cables for Photovoltaic-Systems) **License Fee - Units**

Type Designation	: PV1-F 1X2,5...6mm²	7
Rated Voltage	: DC 1,0kV AC Uo/U 0,6/1kV	
Ambient Temperature	: -40°C to +90°C	
Max.Temperature at Conductor	: 120°C	
Mark of Origin	: Trade mark of Zhejiang Chint Cable Co., Ltd.	

Remark: This certificate is not valid for EU since 27.10.27

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Appendix: 1.0

TÜV Rheinland (China) Ltd.

Licensed Test mark: 2 PFG 1169 CERTIFIED

TÜV Rheinland (China) Ltd.
Signature

Zhao Xinhua

Date of Issue (day/mo/yr)
28/04/2018

TÜV Rheinland (China) Ltd
No. 01/03B-08, Floor 7 and No. 01/04B-08, Floor 11, AVIC Building, No.108, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, P.R. China

7.2 EN 50618 TÜV 认证证书

Zertifikat *Certificate*

TÜVRheinland

Zertifikat Nr. *Certificate No.*
R 50456981

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*	Unser Zeichen *Our Reference*	Ausstellungsdatum	*Date of Issue*
P.X.	01-WJJ-50332156 001	14.01.2020	*(day/mo/yr)*

Genehmigungsinhaber *License Holder*
Zhejiang Chint Cable Co., Ltd.
No. 1 Jiangnan Road
Nanhu Industrial Park
Jiaxing City, Zhejiang 314006
P. R. China

Fertigungsstätte *Manufacturing Plant*
Zhejiang Chint Cable Co., Ltd.
No. 1 Jiangnan Road
Nanhu Industrial Park
Jiaxing City, Zhejiang 314006
P. R. China

Prüfzeichen *Test Mark*

TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production Surveillance
www.tuv.com ID 14159073414

Geprüft nach *Tested acc. to*
EN 50618:2014

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

Cable (Electric Cables for Photovoltaic Systems)

Type Designation : 433323 7

Code Designation : H1Z2Z2-K
Zhejiang Chint Cable Co., Ltd.

Scope of Sizes : 1X2,5...6mm²
Rated Voltage : DC 1,5kV
AC 1,0/1,0kV

Ambient Temperature : -40°C to +90°C

Max.Temperature
at Conductor : 120°C

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ANLAGE (Appendix): 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

TÜV Rheinland LGA Products GmbH TÜVRheinland Zertifizierungsstelle

Zertifizierungsstelle

Bo Liu

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Zhejiang Chint Cable Co., Ltd.
Peng Xiong
-
No. 1 Jiangnan Road
Nanhu Industrial Park
Jiaxing City, Zhejiang 314006
P. R. China

Date : 14.01.2020
Our ref. : WJJ 01
Your ref.: P.X.

Ref : R TÜV-Mark Approval

Type of Equipment : Electric Cables for Photovoltaic Systems
Model Designation : See Certificate
Certificate No. : R 50456981 0001
Report No. : 50332156 001

Dear Peng Xiong,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body

Bo Liu

cc: Zhejiang Chint Cable Co., Ltd.

Enclosure

TÜV Rheinland (China) Ltd.
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