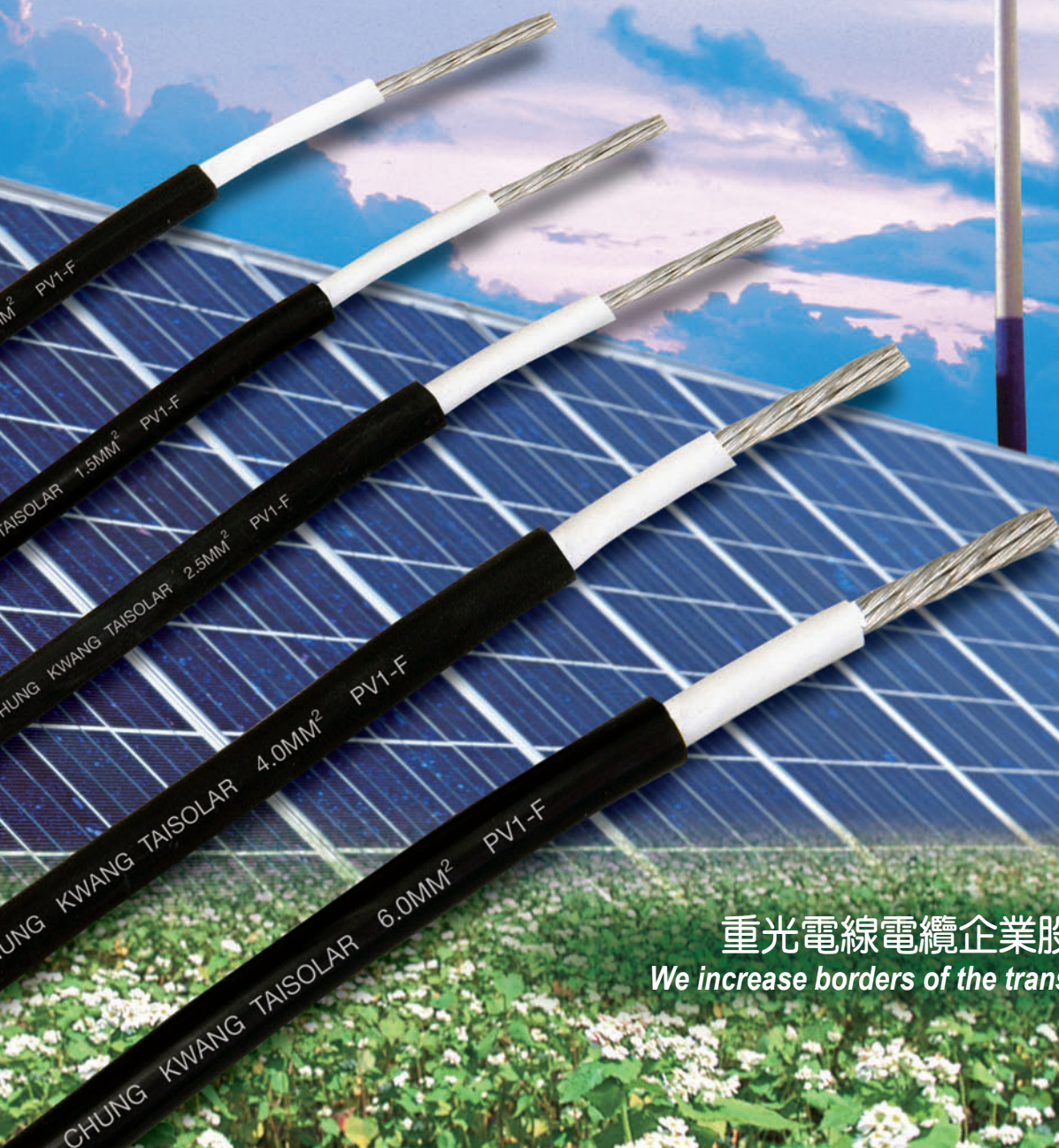




CHUNG KWANG

ELECTRIC WIRE & CABLE CO., LTD.



重光電線電纜企業股份有限公司
We increase borders of the transitional business.

太陽能電線 (Taisolar PV Cable)

"Taisolar" 為重光電線電纜企業股份有限公司生產之太陽能電線的註冊商標，為一種全新開發設計之太陽能發電系統用線，使用特殊材料製造，不但柔軟便於施工且非常強韌，可適用於室內室外-40°C到90°C之環境。（證書號碼：R50186672）

TAISOLAR PV CABLE

The "Taisolar" PV Cable is a new developed single-pole solar cable, flexible, tough, specially designed for solar current applications according to TÜV Standard 2.PfG 1169/08.07. It is soft and very easy to process, can be installed inside & outside building at any area around the world. The cable is certificated by TÜV. (Certificate No. R50186672)



General Characteristics :

| | |
|--------------------------------------------------------|---------------------------------------|
| TÜV Tested | Temperature range : -40°C up to 90°C |
| Halogen free | Rated voltage: AC 0.6/1KV , DC 1.8KV |
| UV resistant | Max. temperature at conductor : 120°C |
| Double insulated | Flame test : IEC 60332-1 |
| Conductor : class 5, Tinned (IEC 60228) | Insulation material : LSNH XLFRPE |
| High wear and abrasion resistance | Jacket material : LSNH XLFRPE |
| High resistance against oils, grease, oxygen and ozone | Colors : black |

Marking : "CHUNG KWANG TAISOLAR 600/1000V 1×□mm² TÜV PV1-F R50186672"



主要特性：（歐洲規格）

TÜV認證中
 低煙無毒 (LSNH)
 抗UV
 雙層絕緣
 導體：鍍錫銅符合 IEC 60228 Class 5
 強韌耐磨損
 抗氧化、抗臭氧、耐油

操作溫度範圍： -40°C到90°C
 額定電壓： AC U₀/U 0.6/1kv DC1.8KV
 導體最高溫度： 120°C
 耐燃試驗： IEC 60332-1
 絕緣材料： LSNH XLFRPE
 外被覆材料： LSNH XLFRPE
 顏色： 黑

印字內容："CHUNG KWANG TAISOLAR 600/1000V 1×□mm² TÜV PV1-F R50186672"

規格值 Dimensions

| 導體公絲 截面積 Nominal cross section of conductor (mm ²) | 導體組成 (條/mm) Conductor Composition (Pcs/mm) | 導體直徑絞合 Conductor Diameter (mm) | 電線完成外徑 Cable Diameter (mm) | * 額定電流 *Rated Current (A) | 最大導體電阻 Max. Conductor Resistance (Ω/km) 20°C | 測試電壓 5分鐘50/60HZ Test voltage 5 min. 50/60hz (VAC) |
|----------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------|----------------------------------|---------------------------------|----------------------------------------------------------|---------------------------------------------------------------|
| 1.0 | 32/0.20 | 1.30 | 4.3 | 19 | 18.3 | 6500 |
| 1.5 | 30/0.25 | 1.60 | 4.6 | 24 | 12.0 | |
| 2.5 | 50/0.25 | 2.05 | 5.3 | 32 | 7.7 | |
| 4.0 | 56/0.30 | 2.60 | 6.3 | 42 | 4.8 | |
| 6.0 | 84/0.30 | 3.20 | 7.1 | 54 | 3.4 | |

TAISOLAR PV CABLE (UL 4703)

"TAISOLAR" is the trade mark of PV CABLE manufactured by
CHUNG KWANG ELECTRIC WIRE & CABLE CO., LTD.

IT'S suitable for interconnection wiring of grounded and ungrounded
photovoltaic power systems described in sec. 690.31(A) and other
application parts of the National Electrical Code (NEC), NFPA 70.

General Characteristics : (U.S.A. Standard)

UL approved (UL4703) TYPE PV wire similar to TYPE USE-2, UL854

File no. : E3260793

Temperature rating : 90°C wet or dry

Voltage Rating : 600V/1000V

Conductor size : AWG 18 ~ 4/0

Temperature range : -40°C ~ 90°C

Single layer insulation

UV Resistant

Weather-proof

High wear and abrasion resistance

High resistance against oils, grease and ozone

Flame test : VW-1 Comply to NEC 690.31(B) Requirements of PV wire

Insulation material : XLFRPE

Marking :

"CHUNG KWANG TAISOLAR E326079 PV WIRE □AWG

90°C WET OR DRY 600V (1000V) VW-1 SUN RES.

-40°C (UL) "



LISTED
PHOTOVOLTAIC WIRE



TAISOLAR 太陽能電線 (美國規格)

"TAISOLAR"為重光電線電纜企業股份有限公司太陽能電線之商標可用於美國國家電工法規(NEC)690.31(A) 2008年版之規定接地或非接地太陽能光電系統組件間之連接線。

主要系統：

| | |
|------------------------|-------------------------------------|
| 安規： | UL4703之TYPE PV WIRE (類似UL854之USE-2) |
| 檔號號碼： | E326079 |
| 額定溫度： | 90°C 乾或溼 |
| 額定電壓： | 600V或1000V |
| 導體範圍： | AWG 18~4/0 |
| 使用溫度範圍： | -40°C~90°C |
| 單層絕緣 | |
| 抗UV、耐候 | |
| 高耐磨耗 | |
| 耐油、耐水、耐臭氧 | |
| 符合UL VW-1耐燃測試 | |
| 符合NEC 690.31(B)光電用線之規定 | |
| 絕緣材料： | XLFRPE |

印字內容：

"CHUNG KWANG TAISOLAR E326079 PV WIRE □AWG
90°C WET OR DRY 600V (1000V) VW-1 SUN RES.
-40°C (UL) "

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
R 50186672

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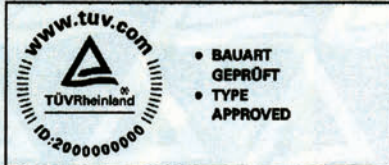
| Ihr Zeichen <i>Client Reference</i> | Unser Zeichen <i>Our Reference</i> | Ausstellungsdatum | <i>Date of Issue</i> (day/mo/yr) |
|-------------------------------------|------------------------------------|-------------------|-------------------------------------|
| 8436100245 | ZTW2-STF- 11021818 001 | 13.08.2010 | |

Genehmigungsinhaber *License Holder*
Chung Kwang Electric Wire & Cable
Co. Ltd
33 Suey Tien Rd. San Ho Village
Wu Jih Hsiang Taichung Hsien 41456
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*
Chung Kwang Electric Wire & Cable
Co. Ltd
33 Suey Tien Rd. San Ho Village
Wu Jih Hsiang Taichung Hsien 41456
Taiwan, R.O.C.

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
2 PFG 1169/08.07



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Leitungen (Cables for Photovoltaic-Systems)

| | | |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Bezeichnung (Type Designation) | : CHUNG KWANG TAISOLAR xMM ² PV1-F | 8 |
| x steht für (stands for) | : 1.0, 1.5, 2.5, 4.0 oder (or) 6.0 | 1 |
| Bemessungsquerschnitt (Cross Section) | : 1.0mm ² ; 1.5mm ² ; 2.5mm ² , 4.0mm ² oder (or) 6.0mm ² | |
| Bemessungsspannung (Rated Voltage) | : AC U ₀ /U 0,6/1 kV; DC 1,8kV (Leiter-Leiter, nicht geerdetes System, unbelasteter Stromkreis (conductor-conductor, non earthe system, circuit not under load) | |
| Temperaturbereich (Ambient Temperature) | : -40°C to +90°C | |
| Max. Temperatur am Leiter: (Max. Temperature at Conductor) | +120°C (für (for) 20,000h) | |
| Material Insolierhülle (Material of Insulation) | : LSNH XLFRPE | |
| Material Mantel (Material of Sheath) | : LSNH XLFRPE | |



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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.

Zertifizierungsstelle

Dipl.-Ing. W. Feuker

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

我們的產品類別如下：

1. PV Cable 太陽能電池連接線
2. 低煙無鹵素耐燃電纜
3. XLPE 沉水式馬達電纜
4. 超耐油電纜
5. UL2501複合電纜
6. UL493/1493 特殊耐候耐水地埋電纜
7. CNC工作母機或機械人使用超移動、耐屈曲電纜
8. PVC控制電纜
9. UL & CSA北美地區合格電源線、電子線
10. 日本PSE、澳洲SAA、歐洲VDE、荷蘭KEMA...等十國合格電源線

Our products are listed as below：

1. PV Cable.
2. LSNH Flame Retardant Cable.
3. XLPE Submersible Pump Cable.
4. Oil Resistant Cable.
5. UL 2501 Integral Cable or Hydrogen Gas Station Control Cable.
6. UL 493/UL1493 Weather-proof direct-burial Cable.
7. CNC or Robot use Ultra Flexible Cable.
8. PVC Control Cable.
9. UL & CSA Approved Flexible Cord & Electronic Wire for North America Region.
10. Japan (PSE), Australia (SAA), Europe (VDE), Netherland (KEMA), ... Approved Power Supply Cord.



世界各國電源線專業製造廠商

重光電線電纜企業股份有限公司 CHUNG KWANG ELECTRIC WIRE & CABLE CO., LTD.

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