

## **CHUNG KWANG**

**ELECTRIC WIRE AND CABLE CO., LTD.** 

**Underground Low-Energy Circuit Cables** 

We are one of the few manufacturers that can make underground low-energy circuit cable in the word.







## CHUNG KWANG ELECTRIC WIRE AND CABLE CO., LTD.

WE ARE 45 YEARS EXPERIENCE PROFESSIONAL MANUFACTURERS.

Chung Kwang Electric Wire & Cable was founded in 1979 with more than 40 years of experience in the wire & cable industry. OEM/ODM Customers design their cables based on industry and appliance requiements.

WE HAVE ESG CERTIFICATION AND MULTI-INTERNATIONAL CERTIFICATES.



















#### PROFESSIONAL PRODUCTION LINE

Manufacturing Capabilities.

- 1. AC Charging Connector and Cables for EV
- (1) One Connector / Two Connectors EV assembly
- (2) Portable EV Charge Set
- (3) EVJE, EVJT, EVE, EVT (4) EV Inlet
- 2. PV Connectors and Cables
- (1) PV Connectors (2) PV Cables
- 3. Power Supply Cords
- (1) Europe Standard (2) USA Standard
- (3) Japan Standard
- 4. Underground Low-Energy Circuit Cables Low Voltage Landscape Lighting Cable
- 5. Submersible Pump Lines
- (1) Submersible Pump Cables
- (2) Winding Wire for Submersible Pump
- 6. Industrial Cables TC, TC-ER, DG







# **Underground Low-Energy Circuit Cables**

Waterproof and Moistureproof Buried under the Ground Directly



## **Advantages**

- Flexible Products.
- Certified Supplier in Taiwan
- Easy to install.
- Easy to distinguish the wires.
- The package and length can be modified according to the requirements of customer.
- CHUNG KWANG Cables are exported to overseas more than 20 countries, and are widely praised and trusted by customers.

### Underground low-energy circuit cables

#### Construction

**Conductor**: Stranded Bare/ Tinned Copper

Insulation: W Type PVC

Sheath (for round cable only): W Type PVC (Black)

#### **Approval and Technical specification**

Approvals: UL1493/ CSA C22.2 NO.35

Certificate No. : E324553 Rated temperature : 60 °C

Bend radius: 20 x D

Operating Temperature Range : -20°C ~ 60°C Rated Voltage : 150 V (for UL), 30 V(for CUL)

Insulation Resistance : min. 30.5 M $\Omega$ -km.

Conductor Size: AWG 18~8

Special Approval: Sun Resistant, Direct Burial.

Comply to the Reguirements of NEC.

**RoHS Compliant** 

#### Structure & Dimensions for flat, parallel cable

Size(AWG/ NO. of conductors)	Conductor (PCS/AWG)	Insulation Thickness (Nom.)	Dimensions (Nom.)
18/2C	16/30	1.14 mm.	3.6 X 7.3 mm
16/2C	26/30	1.14 mm.	4.0 X 8.1 mm
14/2C	41/30	1.14 mm.	4.4 X 8.9 mm
12/2C	65/30	1.14 mm.	5.1 X 10.1 mm
10/2C	105/30	1.14 mm.	5.2 X 10.5 mm
8/2C	165/30	1.52 mm.	7.4 X 15.0 mm

#### Structure & Dimensions for round cable

- 1	Size(AWG/NO. of conductors)			111001101011	Jacket Thickness(Nom.)	Overall Diameter(Nom.)
	22/3C	17/34	0.23 mm	1.36 mm	0.58 mm	4.6 mm
	22/4C	17/34	0.23 mm	1.36 mm	0.58 mm	4.6 mm

#### **Applications**

- Suitable for outdoor focusing on lighting, landscape lighting and security lighting applications, not exceeding 150 volts. (UL)
- Suitable for use in direct burial landscaping and lighting .
- Suitable for long-term audio, and outdoor speakers.

## CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L324553-111-61218002-0

**Report Reference** E324553-20081216

Date 28-Nov-2023

Issued to: CHUNG KWANG ELECTRIC WIRE & CABLE CO LTD

33 Suey Tien Rd San Ho Village Wu Jih District Taichung 414

Taiwan

This is to certify that ZLIA - Underground Low-energy Circuit Cable representative samples of See Addendum Rage for Product Designation/

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: Power-Limited Circuit Cables - UL 13

Outline of Investigation for Underground Low-Energy Circuit

Cable - 1493

Additional Information: See the UL Online Certifications Directory at

https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Albrah Jennings-Corne

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## CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L324553-111-61218002-0

**Report Reference** E324553-20081216

Date 28-Nov-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
Underground low-energy circuit cable	Underground Low-Energy Circuit Cable

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(UL)

Deborah Jennings-Conner, VP Regulatory Services

## CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L324553-212-71218002-0

**Report Reference** E324553-20081217

Date 28-Nov-2023

Issued to: CHUNG KWANG ELECTRIC WIRE & CABLE CO LTD

33 Suey Tien Rd San Ho Village Wu Jih District Taichung 414

Taiwan

This is to certify that representative samples of

ZLIA7 - Underground Low-energy Circuit Cable Certified for

Canada

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: Subject 1493 Outline of Investigation for Underground Low-

Energy Circuit Cable, Issue Number 1

Additional Information: See the UL Online Certifications Directory at

https://iq.ulprospector.com for additional information

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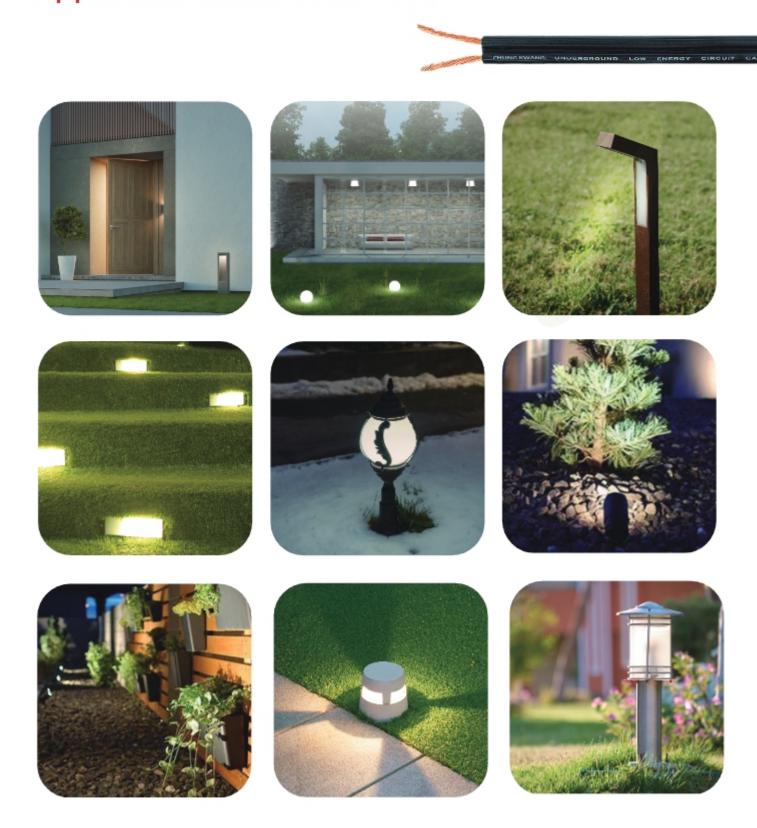
Model	Category Description
Low-voltage landscape lighting cable (LVLL)	Underground Low-Energy Circuit Cable
Underground low-energy circuit cable (ULEC)	Underground Low-Energy Circuit Cable

Osbrah Jennings-Corne

(UL)



## **Application Effect Of Products**

















































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