# ChimeraX 2.5mm$^2$ Single Core Solar Cable Flame Retardant, Zero Halogen

### Flame Resistant

IEC 60332-1

### Design Standard

EN 50618

H 1Z2Z2-K

### Application

Solar Farm

Residential Solar System

### Rated Value

$U_0$ 1.5kVDC / EN50618

### Working Condition

Storage Temperature

-40°C ~ +90°C

Installation Temperature:

-40°C ~ +90°C

Operation Temperature

-40°C ~ +120°C

Maximum short circuit Temp.

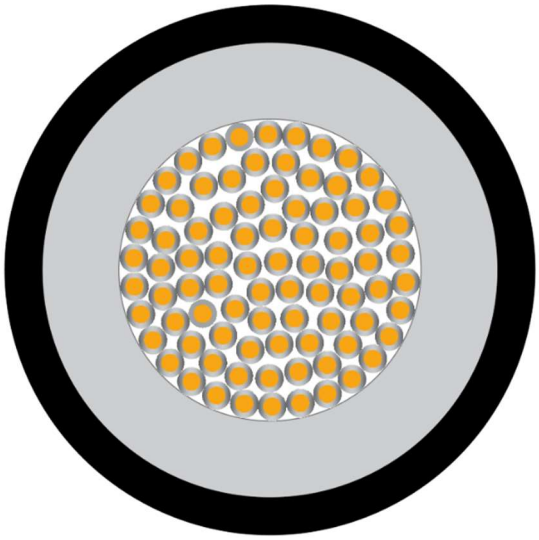
+250 °C in 5s

### Min. Allowable Bending Radius

Static: > 4 D

Dynamic: > 6 D

D is the out diameter of the cable



- Water Resistance
- Cross-linked polyolefin insulation
- Cross-linked polyolefin outer jacket
- The jacket wont melt or flow in high temperature
- Sun Light Resistance

## Technical data

| | | |
|---|---|---|
| Number of Conductor | | 1 |
| Conductor Material | | Tinned Copper |
| Conductor | | Class 5 flexible stranded tinned copper |
| Cross-section of conductor | mm$^2$ | 2.5 |
| Diameter of conductor Nom. | mm | 2.04 |
| Material of insulation | | Cross-linked polyolefin |
| Color of insulation | | Natural/Black |
| Material of outer jacket | | Cross-linked polyolefin with UV & Ozone resistant |
| Outer Sheath Color | | Black with white labeling or Black with red labeling |
| OD of Cable Nom. | mm | 5.45±0.15 |
| Weight approx | kg/km | 50 |

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## Electrical Characteristics

| | | |
|---|---|---|
| Voltage test of finished cable | | AC-6.5kV/5 min No Break |
| Insulation Resistance@ 20℃ | MΩKM | 862 (Min) |
| Conductor Resistance@ 20℃ | ΩKM | 8.21 (Max) |
| DC Voltage test of insulation | | 1800V, 240h(85℃, 3%Nacl) No break |
| Thermal Endurance Properties. (Insulating material Ageing) | | 25 Years (IEC 60216-1) |

## Physical Characteristics

| | | |
|---|---|---|
| Elongation of unaged values | ≥ | 125% |
| Tensile strength of unaged values(Mpa) | ≥ | 10.3 |
| Elongation of sheath | ≥ | 125 |
| Shrinkage resistant | ≤ | 2% |
| Tensile strength of after aging | ≤ | 30% |
| Ozone resistance | | IEC 60811-403/EN 50396-8.1.3 |
| Cold bend test | -40±2℃*16h | IEC 60811-504 |
| Cold impact test | -40℃*16h | IEC 60811-506 |

## Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS CHIMERAX EN50618 SOLAR FIRE RETARDANT DC CABLE(PV) SINGLE CONDUCTOR 2.5MMSQ 1.5KV<SRC-02501C77>
WWYYYY XXXXM

## Order Information

P/N SRC-02501C77-W - Black color jacket with white labeling
P/N SRC-02501C77-R - Black color jacket with red labeling

| | |
|---|---|
| Packing Method | Wooden Drum with Protection |
| Delivery Length | Standard Delivery Length is 500m with a tolerance of ± 3% |

Hermesys
42 Emerald Hill Road,Singapore
Phone +65 6692 1168
Info.asean@hermesys.it

*Data listed is correct at the time of printing. Hermesys reserve the rights to change specifications without prior notice.