# ChimeraX 6mm² 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

U0 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.

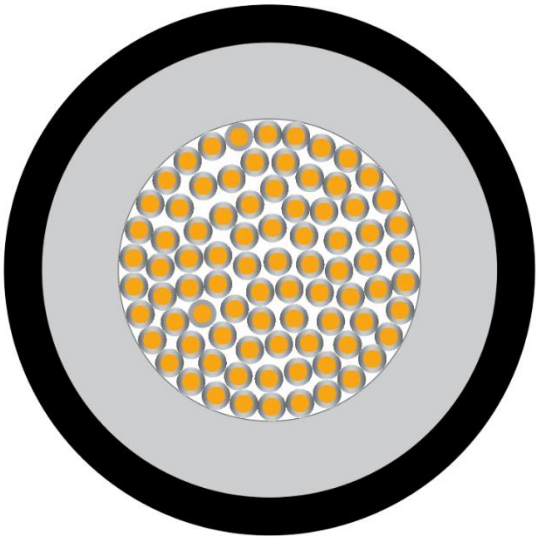
+250 °C in 5s

### 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 | $mm^2$ | 6 |
| Diameter of conductor Nom. | mm | 3.0 |
| Material of insulation | | Cross-linked polyolefin |
| Color of insulation | | Natural |
| 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 | 6.3±0.2 |
| Weight approx | kg/km | 82 |

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## Water Resistance

Constant High Volumn Insulation Resistance after long term period in water EN50395

# Electrical Characteristics

| | | |
|---|---|---|
| Dielectric Strength | | AC-6.5kV/1 sec Min |
| Spark Test | | AC-10kV/in the air |
| Conductor Resistance@ 20℃ | ΩKM | 3.39 (Max) |
| Weathering/UV-resistance | | No crack in 720h |
| Thermal Endurance Properties. (Insulating material Ageing) | | 25 Years (IEC 60216-1) |

# Physical Characteristics

| | | |
|---|---|---|
| Elongation of unaged values | ≥ | 125% |
| Tensile strength of unaged values($N/mm^2$) | ≥ | 6.5 |
| Aged in a full draft circulating air oven | | 150±2.0℃/168h |
| Elongation of after aging | ≤ | 30% |
| Tensile strength of after aging | ≤ | 30% |
| Ozone resistance | 72h | No Crack |
| Cold bend test | -40±2℃*16h | No Crack |
| Cold impact test | -40℃*16h/1000g | 100mm no crack |

# Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS CHIMERAX EN50618 SOLAR FIRE RETARDANT DC CABLE(PV) SINGLE CONDUCTOR 6MMSQ 1.5KV<SRC-06001C77>
WWYYYY XXXXM

# Order Information

P/N SRC-06001C77-W - Black color jacket with white labeling

P/N SRC-06001C77-R - Black color jacket with red labeling

| | |
|---|---|
| Packing Method | Wooden Drum with Protection |
| Delivery Length | Standard Delivery Length is 1000m with a tolerance of ± 3% |

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