

# SPECIFICATION FOR APPROVAL

## Applications

Double insulated, electron-beam cross-linked cables for photovoltaic power applications.

### 1. Construction

SOALR CABLE 2CORE 4mm<sup>2</sup>

### CABLE CONSTRUCTION

Rated Voltage

1000VDC

Conductor

Cross-sectional Area(mm<sup>2</sup>)

4

Material

Tinned Copper acc. to VDE 0295 I IEC 60228, Class 5

Insulation

Material

XLPO, flame retardant, halogen free, electron-beam cross-linked

Color

Black

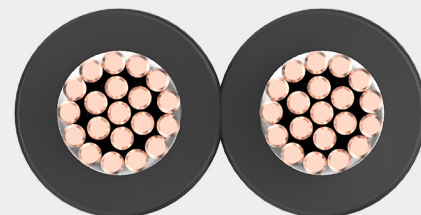
Jacket

Material

XLPO, flame retardant, halogen free, electron-beam cross-linked

Color

Black, red



### 2. Physical Properties

Item

Specification

Inner and outer layer is inseparable.

Inner Layer

Outer Layer

### 4. Marking

Elongation

Un-aged

≥125%

≥125%

Strength

≥6.5Mpa

≥8Mpa

Cold bend test

(-40±2.0°C×16h)

No cracking

Sunlight resistance

720h

Elongation and strength retention rate ≥80%

Bending radius

≥4×Cable OD

PASS

Ambient temperature

-40°C up to +90°C

### 6. Packing

(a) 200m./300m/commission

(b) Consulting if delivering in other ways

Content of halogen acid gas

IEC670754-1, EN50267-2-1

Thermal endurance properties

> 25years

Insulation resistance AT20°C

≥1014Ω·cm

Max. current AT60°C

55A

Max. conductor temperature

120°C

Flame test

IEC60332-1

PASS

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### 3. Electrical Properties

Item

Specification

Conductor Resistance AT 20°C

≤5.09Ω/km

Dielectric-withstand test

6500VAC/5min

Spark test

10000VAC