

## General Specifications

- Product name  :  DCS 50 Am
- Product description  :  Installation cable for Solar Home Systems

## Electrical Specifications

- Resistance at 20°C  :  Ohm/km 7.98
- Max. permissible current  :  28 A
- Max. cable length at max. current  :  1.7 m
  
- Electrical strength
- in water  :  to withstand 1000 V for 1 minute
- in air  :  to withstand 3000 V for 1 minute
- spark  :  to withstand 5000 V for at least 0.15 sec.

## Mechanical Specifications

- Conductor material  :  Bare annealed copper wire
- Section area  :  2 x 2.50 mm<sup>2</sup>
- Copper wire size (nxØ wire)  :  2 x 50 x 0.25 mm
- Insulation Thickness  :  0.85 mm
- Overall Thickness  :  3.95 mm
- Overall width  :  9.30 mm
  
- Shielding  :  PVC (fire retardant)
- Color  :  black
- Tensile strength  :  Min. 11Mpa
- Elongation  :  Min. 190%
  
- Thermal aging ( 80°C ± 2°C, 7x24hr)
- Tensile strength  :  Retention rate compared to before heating 60%
- Elongation  :  Retention rate compared to before heating 70%
  
- Heat Shock  :  No cracks or flaws on the surface
- Cold bend  :  No cracks or flaws on the surface
- Heat deformation  :  Thickness not to exceed 30%
- Flame Retardance  :  Flame to go out naturally within 60 sec.
  
- Properties of conductor copper wire
- Elongation  :  min. 15%
- Electrical conductivity  :  min. 98%
- Z
- Standard packaging  :  500 meters/roll
- Packing dimensions (ØxH)  :  500 mm x 110 mm
- Gross weight  :  36 kg
- Volume / Roll Per m<sup>3</sup>  :  0.02m<sup>3</sup> / 50 roll/m<sup>3</sup>

