

# SILICABLE® CS-HRD and ECS-HRD

Insulation with improved  
mechanical strength  
-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED  
WIRES AND CABLES



- 1 • Flexible bare copper (ref. CS-HRD) or tin-plated (ref. ECS-HRD) core – class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber with high mechanical properties.

## Approvals - standards

- Halogen-free:  
IEC 60754-1 / EN 60754-1.

## Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
  - Lighting.
- Industrial cabling in hot atmospheres.

## Options

- Nickel-plated copper core: ref. CNCS-HRD.
- Silver-plated copper core: ref. ACS-HRD.
- Pure nickel core (not described in IEC 60228):  
ref. NCS-HRD.
  - Outer electrical shielding:  
> Tin-plated copper braid: ref. CSBE-HRD  
or ECSBE-HRD.
  - Stranded bare copper (ref. CS-HRD)  
or tin-plated (ref. ECS-HRD) core  
- class 2 as per IEC 60228:  
See details of the option below.
    - Double insulating layers:  
ref. CSC-HRD or ref. ECSC-HRD.
- Other nominal cross-sections: contact us.
  - Other options and/or combinations  
of the options outlined above: contact us.

## Characteristics

### General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Improved mechanical strength.

### Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V.

## Standard products

- All colours including two-coloured.

## CS-HRD and ECS-HRD

### Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30

### INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	7.8
0.6	2.4	11.0
0.6	2.5	13.3
0.6	2.8	18.2
0.7	3.4	29.0
0.8	4.2	45.8
0.8	4.8	65.5

### Option • CS-HRD and ECS-HRD

#### Stranded core • class 2 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	7 x 0.30	36.0
0.75	7 x 0.37	24.5
1	7 x 0.43	18.1
1.5	7 x 0.52	12.1
2.5	7 x 0.67	7.41
4	7 x 0.85	4.61
6	7 x 1.04	3.08

### INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	7.8
0.6	2.4	11.0
0.6	2.5	13.4
0.6	2.8	18.4
0.7	3.4	29.2
0.8	4.2	46.2
0.8	4.8	66.0

For this product, please contact:

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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

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