

# CSV and ECSV

SIR 절연전선 (유리섬유 편조 보강)

**-60 °C to +220 °C**



- 1 • Flexible bare copper (ref. CSV) or tin-plated (ref. ECSV) core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Silicone-coated fibreglass braid.

## Approvals - standards

- VERITAS approval certificate No. BV 153552.
- Halogen-free: IEC 60754-1 / EN 60754-1.

## Applications

- Cabling for household electrical heating appliances.
  - Production machines.
  - Lighting.
- Industrial cabling in hot atmospheres.

## Options

- Nickel-plated copper core: ref. CNCV.
- Silver-plated copper core: ref. ACSV.
- Pure nickel core (not described in IEC 60228): ref. NCSV.
  - Outer electrical shielding:
    - > Tin-plated copper braid: ref. CSVBE.
    - Outer flexible armour:
      - > Galvanised steel braid: ref. CSVBG.
      - > Stainless steel braid: ref. CSVBI.
- Solid bare copper (ref. RCSV) or tin-plated (ref. RECSV) core - class 1 as per IEC 60228: See details of the option below.
- Extra-flexible bare copper (ref. CSVES) or tin-plated (ref. ECSVES) core - class 6 as per IEC 60228.
- Other nominal cross-sections: contact us.
  - Other nominal stranding: contact us.
  - Other options and/or combinations of the options outlined above: contact us.

## Characteristics General

- Continuous operating temperatures: -60 °C to +220 °C.
- Good resistance to thermal shock and UV.

## Electrical

- |                  |                                 |                              |
|------------------|---------------------------------|------------------------------|
|                  | <b>CS &lt; 6 mm<sup>2</sup></b> | <b>CS ≥ 6 mm<sup>2</sup></b> |
| • Rated voltage: | 300/500 V                       | 600/1000 V.                  |
| • Test voltage:  | 2000 V                          | 3000 V.                      |

## Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

## CSV and ECSV

### 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)
0.4*	12 × 0.20	52.4
0.5	16 × 0.20	39.0
0.6*	19 × 0.20	32.8
0.75	24 × 0.20	26.0
1	32 × 0.20	19.5
1.5	30 × 0.25	13.3
2.5	50 × 0.25	7.98
4	56 × 0.30	4.95
6	84 × 0.30	3.30
10	80 × 0.40	1.91
16	126 × 0.40	1.21
25	196 × 0.40	0.780
35	276 × 0.40	0.554
50	396 × 0.40	0.386
70	360 × 0.50	0.272
95	485 × 0.50	0.206
120	608 × 0.50	0.161
150	756 × 0.50	0.129
185	944 × 0.50	0.106
240	1221 × 0.50	0.0801
300	1525 × 0.50	0.0641
400	2037 × 0.50	0.0486

### INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.45	2.0	7.2
0.45	2.1	8.4
0.45	2.2	9.7
0.45	2.4	11.4
0.45	2.5	13.6
0.45	2.8	18.4
0.5	3.4	28.9
0.6	4.4	47.4
0.8	5.3	70.4
1.0	6.9	117
1.2	8.3	178
1.4	10.1	261
1.5	11.5	370
1.7	13.7	537
1.7	15.3	715
2.3	18.2	961
2.4	20.1	1222
2.4	22.0	1500
2.7	24.6	1844
3.2	28.6	2503
3.2	31.0	3082
3.2	34.6	3862

### Option • RCSV and RECSV

#### Solid core • class 1 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	1 × 0.80	36.0
0.75	1 × 0.98	24.5
1	1 × 1.13	18.1
1.5	1 × 1.38	12.1
2.5	1 × 1.77	7.41
4**	1 × 2.24	4.61
6**	1 × 2.76	3.08

#### INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.45	2.0	8.6
0.5	2.3	11.9
0.5	2.4	14.4
0.5	2.8	18.6
0.6	3.3	31.2
0.8	4.2	50.1
0.8	4.8	70.6

For this product, please contact:

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\* Nominal cross-sections not described in IEC 60228.

\*\* Nominal cross-sections not available with the ref. RECSV.