

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION 1: CROSS LINKED ELASTOMERS

SILICABLE® HT Ignition wires -60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

ECS-HT

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- 1 • Bare copper, tin-plated, nickel-plated or silver-plated core.
- 2 • Insulation: Silicone rubber.

Approvals - standards

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

Applications

- Ignition circuit and creation of an electric arc for:
 - > Piezo-electric components in household electrical appliances.
 - > Gas or oil burners for boilers and professional appliances.

Options

- Pure nickel core: ref. NCS-HT or NCSV-HT or NCSVCS-HT.
 - Outer electrical shielding:
 - > Tin-plated copper braid: ref. CSBE-HT or CSVBE-HT or CSVCSBE-HT.
 - Cable resistant to vertical flame propagation: contact us.
 - Other nominal cross-sections or nominal stranding: contact us.
 - Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.
- Applications requiring the design of a specific cable: contact us.

Characteristics

General

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

Electrical

- Pulse voltage: from 15 to 30 kV.

Standard products

- Main products: see table below.
- Standard insulation colours: white, black, brick red and colourless.

Core	CS-HT range Insulation: Silicone rubber	CSV-HT range Insulation: Silicone rubber + silicone coated fibreglass braid	CSVCS-HT range Insulation: Silicone rubber double layer with intermediate fibreglass braid
In bare copper	CS-HT	CSV-HT	CSVCS-HT
In tin-plated copper	ECS-HT	ECSV-HT	ECSVCS-HT
In silver-plated copper	ACS-HT	ACSV-HT	ACSVCS-HT
In nickel-plated copper	CNCS-HT	CNCSV-HT	CNCSVCS-HT

For this product, please contact:

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15 KV*

20 KV*

25 KV*

30 KV*

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)
CS-HT										
0.25	8 x 0.20 or 14 x 0.15	82.9	2.7	10.2	3.4	15.1	4.8	28.3	6.3	47.6
0.34	7 x 0.25 or 19 x 0.16	59.2	2.8	11.5	3.5	16.6	4.9	30.2	6.4	49.7
0.5	7 x 0.30 or 16 x 0.20	40.1	3.0	13.9	3.7	19.3	5.0	33.6	6.6	53.8
0.6	19 x 0.20	33.7	3.0	14.6	3.7	20.0	5.2	34.2	6.6	54.5
0.75	24 x 0.20	26.7	3.2	17.1	3.9	22.9	5.3	37.7	6.8	58.7
0.93	19 x 0.25	21.6	3.3	19.2	4.0	25.1	5.4	40.3	6.9	61.6
1	32 x 0.20	20.0	3.4	20.4	4.1	26.5	5.5	42.0	7.0	63.6
1.34	19 x 0.30	15.0	3.5	23.6	4.2	29.9	5.6	45.7	7.1	67.7
1.5	30 x 0.25	13.7	3.6	25.3	4.3	31.7	5.8	47.9	7.2	70.2
2.5	50 x 0.25	8.21	4.0	36.7	4.8	43.9	6.2	61.7	7.7	85.7
4	56 x 0.30	5.09	4.6	52.3	5.3	60.3	6.7	79.7	8.2	106

CSV-HT

0.34	7 x 0.25 or 19 x 0.16	59.2	2.8	11.5	3.5	16.6	4.9	30.2	6.4	49.7
0.5	7 x 0.30 or 16 x 0.20	40.1	3.0	13.9	3.7	19.3	5.1	33.6	6.6	53.8
0.6	19 x 0.20	33.7	3.0	14.6	3.7	20.0	5.1	34.2	6.6	54.5
0.75	24 x 0.20	26.7	3.2	17.1	3.9	22.9	5.3	37.7	6.8	58.7
0.93	19 x 0.25	21.6	3.5	20.3	4.2	26.5	5.6	42.2	7.1	64.0
1	32 x 0.20	20.0	3.6	21.6	4.3	27.9	5.7	43.9	7.2	66.1
1.34	19 x 0.30	15.0	3.7	24.9	4.4	31.3	5.8	47.7	7.3	70.2
1.5	30 x 0.25	13.7	3.8	26.6	4.5	33.2	5.9	49.9	7.4	72.7
2.5	50 x 0.25	8.21	4.3	38.1	5.0	45.6	6.4	63.8	7.9	88.4

CSVCS-HT

0.5	7 x 0.30 or 16 x 0.20	40.1	3.3	16.1	4.8	30.1	6.3	49.4	8.7	90.9
0.6	19 x 0.20	33.7	3.3	16.8	4.8	30.8	6.3	50.0	8.7	91.6
0.75	24 x 0.20	26.7	3.5	19.5	5.0	34.2	6.5	54.1	8.9	96.8
0.93	19 x 0.25	21.6	3.6	21.6	5.1	36.6	6.6	56.9	9.0	100
1	32 x 0.20	20.0	3.8	23.7	5.2	38.3	6.7	58.9	9.1	103
1.34	19 x 0.30	15.0	3.9	27.1	5.3	41.9	6.8	62.9	9.2	107
1.5	30 x 0.25	13.7	4.0	28.8	5.4	44.0	7.3	71.9	9.3	110

* Pulse voltage.

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