

# High Temperature Silicone Cable SIA/SIAF 0.5mm<sup>2</sup> to 300mm<sup>2</sup>



## Description

SIA and SIAF cables are single core class 1 or class 5 flexible cables in a silicone outer sheath. They are designed for use in environments with sustained temperature extremes and fluctuations, making them suitable for a wide range of industrial applications such as power plants, ships and aircrafts, furnaces and ovens. As silicone rubbers don't support fungal or bacterial growth they are also used in food processing, refrigeration and medical industries. SIA and SIAF cables are also widely used in the Oil, Gas & Petrochemicals industries.

The SIA and SIAF cables are rated to 300/500V for core sizes up to 6mm<sup>2</sup>, with core sizes of 10mm<sup>2</sup> and above rated at 600/1000V. SIA and SIAF cables are heat resistant up to 180°C and can also be employed at temperatures as low as -60°C. These silicon cables are low smoke zero halogen and are suitable for use in public buildings under CPR 2017

## Key Features



**Voltage Rating**  
SIA: 300/500V  
SIAF: 0.25mm<sup>2</sup> to 6mm<sup>2</sup> 300/500V  
10mm<sup>2</sup> and above: 0.6/1kV



**Minimum Bending Radius**  
4 x Overall Diameter



**Temperature Limits**  
Temperature Range: -60°C to +180°C

## Core Colours

Available in: Black Blue Brown Red White Violet Pink  
Grey Yellow Orange Green Yellow

## Standards

- BS EN/IEC 60228
- BS EN 50525-2-41

## Construction

- **Conductor:** Class 1 solid (plain or tinned) copper conductor  
Class 5 flexible (plain or tinned) copper conductor
- **Insulation:** Silicone Rubber

## QA Lab

### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



## Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

## ecovadis

## High Temperature Silicone Cable SIA/SIAF 0.5mm<sup>2</sup> to 300mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Sheath Thickness (mm)	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km)
SIA500VCL1CU1X0/5	0.5	1	0.6	8.0	2.0	10
SIAF500VCL5CU1X0/5	0.5	1	0.6	9.0	2.1	10
SIA500VCL1CU1X0/75	0.75	1	0.6	9.0	2.2	13
SIAF500VCL5CU1X0/75	0.75	1	0.6	9.0	2.2	14
SIA500VCL1CU1X1	1.0	1	0.6	10.0	2.3	17
SIAF500VCL5CU1X1	1	1	0.6	10.0	2.3	18
SIA500VCL1CU1X1/5	1.5	1	0.6	10.0	2.5	20
SIAF500VCL5CU1X1/5	1.5	1	0.6	10.0	2.5	21
SIA500VCL1CU1X2/5	2.5	1	0.7	13.0	3.2	30
SIAF500VCL5CU1X2/5	2.5	1	0.7	13.0	3.2	32
SIA500VCL1CU1X4	4	1	0.8	16.0	4.0	50
SIAF500VCL5CU1X4	4	1	0.8	16.0	4.2	52
SIA500VCL1CU1X6	6	1	0.9	18.0	4.5	69
SIAF500VCL5CU1X6	6	1	0.9	18.0	4.6	71
SIA500VCL1CU1X10	10	1	1.0	22.0	5.5	110
SIAF1KVCL5CU1X10	10	1	1.0	22.0	5.6	112
SIAF1KVCL5CU1X16	16	1	1.3	30.0	7.5	175
SIAF1KVCL5CU1X25	25	1	1.4	37.0	9.1	260
SIAF1KVCL5CU1X35	35	1	1.4	42.0	10.5	350
SIAF1KVCL5CU1X50	50	1	1.5	48.0	12.0	500
SIAF1KVCL5CU1X70	70	1	1.6	56.0	14.0	690
SIAF1KVCL5CU1X95	95	1	1.8	62.0	15.5	910
SIAF1KVCL5CU1X120	120	1	1.9	70.0	17.5	1170
SIAF1KVCL5CU1X150	150	1	2.0	78.0	19.5	1430
SIAF1KVCL5CU1X185	185	1	2.2	86.0	21.5	1750

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