

High Temperature Silicone Cable SIAF/GL



Eland Product Group: ASI

APPLICATION

Designed for use in environments where sustained heat resistance and continued function is required. They have heat resistant properties up to 180°C and can also be employed at temperatures as low as -60°C. These cables are halogen free and are particularly suitable for power plants, a wide range of industrial applications in processing, packaging, refrigeration, foundries, aircraft construction and ship building.

CHARACTERISTICS

Voltage Rating (U_o/U)

0.5mm² to 6mm² : 300/500V

10mm² and above: 0.6/1kV, when protected

Temperature Rating

Fixed: -60°C to +180°C

Minimum Bending Radius

Fixed: 4 x overall diameter

CONSTRUCTION

Conductor

Class 5 flexible tinned copper

Insulation

Silicone rubber

Outer Sheath

Fibre Glass Braid

Sheath Colour

● Black ● Blue ● Brown ● Red ○ White ● Grey ● Violet
● Pink ● Orange ● Yellow ● Green/Yellow

STANDARDS

EN 50252-2-41, EN 60228

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASI00025**/GL	1	0.25	0.55	2.0	8
ASI00035**/GL	1	0.35	0.55	2.1	9
ASI00050**/GL	1	0.5	0.55	2.2	11
ASI00075**/GL	1	0.75	0.55	2.4	14
ASI0010**/GL	1	1	0.55	2.6	17
ASI0015**/GL	1	1.5	0.55	2.9	22
ASI0025**/GL	1	2.5	0.55	3.6	37
ASI0040**/GL	1	4	0.8	4.4	55
ASI0060**/GL	1	6	0.8	4.9	74
ASI010**/GL	1	10	1	6.3	116
ASI016**/GL	1	16	1	7.3	172
ASI025**/GL	1	25	1.2	9.0	261
ASI035**/GL	1	35	1.3	10.2	354
ASI050**/GL	1	50	1.4	12.0	511
ASI070**/GL	1	70	1.5	14.1	725
ASI095**/GL	1	95	1.7	15.8	923
ASI120**/GL	1	120	1.7	17.6	1189
ASI150**/GL	1	150	2	19.7	1464
ASI185**/GL	1	185	2.2	21.8	1803
ASI240**/GL	1	240	2.4	24.3	2375
ASI300**/GL	1	300	2.6	27.2	3020

* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below.. e.g. ASI00025PK/GL = 0.25mm² Pink

COLOUR CODES

COLOUR	Black	Blue	Grey	Green/ Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	BL	GR	GY	OR	RD	PK	YW	VI	BR	WH

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
		Plain Wires	Metal-Coated Wires
0.25	0.21	83.8	86
0.35	0.21	54.4	55.5
0.5	0.21	39	40.1
0.75	0.21	26	26.7
1	0.21	19.5	20
1.5	0.26	13.3	13.7
2.5	0.26	7.98	8.21
4	0.31	4.95	5.09
6	0.31	3.3	3.39
10	0.41	1.91	1.95
16	0.41	1.21	1.24
25	0.41	0.78	0.795
35	0.41	0.554	0.565
50	0.41	0.386	0.393
70	0.51	0.272	0.277
95	0.51	0.206	0.21
120	0.51	0.161	0.164
150	0.51	0.129	0.132
185	0.51	0.106	0.108
240	0.51	0.0801	0.0817
300	0.51	0.0641	0.0654

The above table is in accordance with EN 60228



CONDUCTORS

Flexible Core Silicone Rubber Insulated Cable / Fibre Glass Braid (SIAF/GL)

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING IN AIR Amps					
	at 30°C	at 60°C	at 90°C	at 120°C	at 150°C	at 170°C
0.25	15	13	11	9	6	3
0.35	19	17	14	11	7	4
0.5	23	20	17	13	9	5
0.75	30	26	22	17	11	6
1	35	31	26	20	13	7
1.5	44	38	52	25	17	8
2.5	61	53	45	35	23	12
4	82	71	60	47	31	16
6	104	91	77	60	39	20
10	148	129	108	85	56	28
16	197	173	145	114	75	58
25	263	230	193	151	99	51
35	327	286	240	188	124	63
50	413	362	304	238	157	80
70	531	465	391	306	201	103
95	623	545	458	359	236	121
120	738	645	543	425	280	143
150	850	744	626	491	323	166
185	969	848	714	560	369	190
240	1191	1043	879	689	454	234
300	1339	1173	988	776	512	264

Conductor operating temperature 180°C

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.