



APPLICATION

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

CHARACTERISTICS

Voltage Rating Uo/U

SIA: 300/500V

SIAF: 0.25mm² to 6mm² 300/500V

10mm² and above: 0.6/1kV

Temperature Rating

Fixed: -60°C to +180°C

Minimum Bending Radius

Fixed: 4 x overall diameter

CONSTRUCTION

Conductor

Class 1 solid tinned copper conductor

Class 5 flexible tinned copper conductor

Insulation

Silicone rubber

Sheath Colour

Black Blue Brown Red White Grey Violet

Pink Orange Yellow Green/Yellow

STANDARDS

EN 50525-2-41, IEC/EN 60228

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	0.5	0.6	2.0	10
1	0.75	0.6	2.2	12
1	1	0.6	2.3	15
1	1.5	0.6	2.6	20
1	2.5	0.7	3.2	31
1	4	0.8	3.9	48
1	6	0.8	4.4	67
1	10	1	5.6	108

CURRENT CARRYING CAPACITY

NOMINAL SECTIONAL AREA mm ²	CROSS AREA	CURRENT RATING IN AIR Amps				
		at 30°C	at 60°C	at 90°C	at 120°C	at 150°C
0.5		24	21	17	14	9
0.75		30	26	22	17	11
1		36	31	26	20	13
1.5		45	39	33	26	17
2.5		61	53	45	55	23
4		81	71	60	47	31
6		105	92	77	60	39
10		146	128	107	84	55