

# SPECIALISED

cables



# SLIMLINE HIGH VOLTAGE UNDERGATE CABLE

## Construction

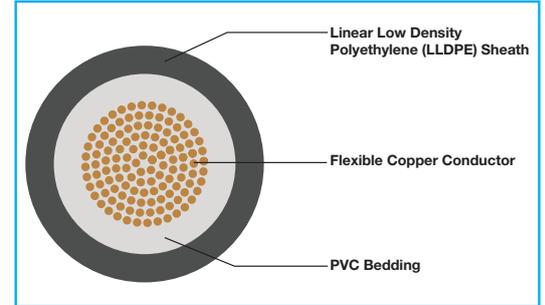
High conductivity annealed flexible copper conductor, insulated with a thin layer of general purpose grade PVC and sheathed with cut & abrasion resistant linear low density polyethylene (LLDPE) which resists a broad spectrum of chemicals and soil acids.

## Applications

For the feeding of and interconnection of high voltage pulses in all types of high voltage security fencing systems.

## Packaging

Available in 50, 100 and 200 metre shrink-wrapped coils and 1000 metre reels.



## Specification

Voltage Rating	20 000 Volts (Pulsed)
Test Voltage	6000 Volts
Temperature Range	-10° to +80°C
Flexibility Class	4
Conductor Type	High conductivity annealed copper
Insulation Material	General purpose grade PVC
Sheath Material	LLDPE (Linear Low Density Polyethylene)
Colour	Black



## Technical Data

Product Code	Conductor Dia mm <sup>2</sup>	Dielectric Thickness mm	Sheath Thickness mm	Nominal Dia mm	Mass kg/100m
UG1.1X1BK	1.39	0.50	0.90	4.2	2.28

# UNDERGATE CABLE

## HIGH VOLTAGE UNDERGATE CABLE

### Construction

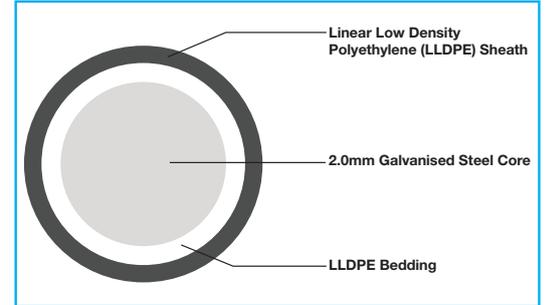
A high tensile galvanised wire extruded with a high dielectric strength virgin grade natural linear low density polyethylene (LLDPE) and oversheathed with a 2.5% carbon loaded high performance weather, cut and abrasion resistant linear low density polyethylene (LLDPE) which resists a broad spectrum of chemicals and soil acids.

### Applications

For the feeding and interconnection of high voltage pulses in all types of high voltage security fencing systems where continuity is required under roads and gates.

### Packaging

Available in 25, 50, 100 and 200 metre shrink-wrapped coils and 1000 metre drums.



Specification	(In-house Specification)
Voltage Rating	25 000 Volts (Pulsed)
Test Voltage	6000 Volts
Temperature Range	-10° to +115°C
Flexibility Class	1
Conductor Type	2.0mm diameter galvanised wire
Insulation Material	LLDPE (Linear Low Density Polyethylene)
Sheath Material	2.5% Carbon Loaded High Performance Linear Low Density Polyethylene
Sheath Colour	Black
Ductility	Min 6% before break



### Technical Data

Product Code	Conductor Dia mm <sup>2</sup>	Dielectric Thickness mm	Sheath Thickness mm	Nominal Dia mm	Mass kg/100m
UG2.0X1BK	2.0	1.0	1.20	6.4	5.43

# AQUASPRAY

## COMPOSITE MULTICORE IRRIGATION MACHINE CABLE

### Construction

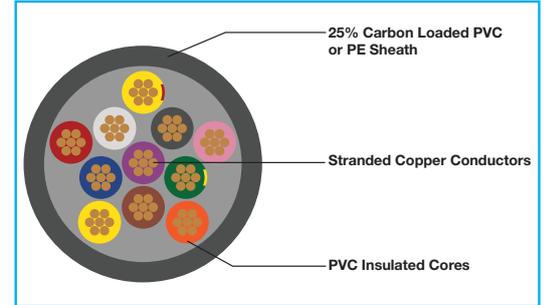
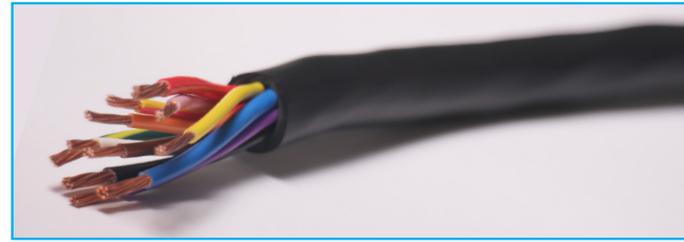
Mixed sizes of high conductivity stranded copper conductors, insulated and colour coded with general purpose grade PVC, laid up and sheathed in a hard 2.5% carbon loaded ultraviolet weather-resistant PVC. V191 has an aluminium tape shield and is then sheathed with a UV, water resistant polyethylene.

### Applications

For outdoor use without further protection in rough agricultural conditions on all types of normal and computer controlled irrigation machines for power supply and control of motors and valves.

### Packaging

Available in cut lengths or drums as per customer requirements.



Specification	(In-house Specification)
Voltage Rating	500 Volts
Test Voltage	2000 Volts
Temperature Range	-10° to +80°C
Flexibility Class	2
Conductor Type	High conductivity annealed copper
Insulation Material	Colour coded, general purpose PVC
Sheath Material	2.5% Carbon loaded ultraviolet abrasion and weather-resistant PVC or polyethylene
Sheath Colour	Black
Core Colours	4 core - 4.0mm <sup>2</sup> Black, Blue, Red, Yellow 9 core - 4.0mm <sup>2</sup> Black, Blue, Red - 1.5mm <sup>2</sup> Yellow, White, Orange, Violet, Brown, Pink 11 core - 3.31mm <sup>2</sup> Red, Black, Blue, Green/Yellow - 2.1mm <sup>2</sup> Yellow, Pink, White, Violet, Orange, Brown, Yellow/Red



### Technical Data

Product Code	Stranding No x Dia	Nominal Amps	Mass kg/100m
AS9BK	4.0mm <sup>2</sup> x 3 + 1.50mm <sup>2</sup> x 6	14.7	42.33
V181	2.10mm <sup>2</sup> x 4	13.0	22.33
V191	5.30mm <sup>2</sup> x 4 + 2.10mm <sup>2</sup> x 7	20.2	68.44
V192	5.30mm <sup>2</sup> x 4 + 2.10mm <sup>2</sup> x 7	16.8	56.81
V193	2.50mm <sup>2</sup> x 4 + 1.50mm <sup>2</sup> x 7	15.2	41.75
V11BK3E2086	3.31mm <sup>2</sup> x 4 + 2.10mm <sup>2</sup> x 7	15.2	45.52

# FIRE RETARDANT SINGLE FLEX

HALOGEN-FREE,  
FLAME-RETARDANT  
CROSS-LINKED POLYOLEFIN

## Construction

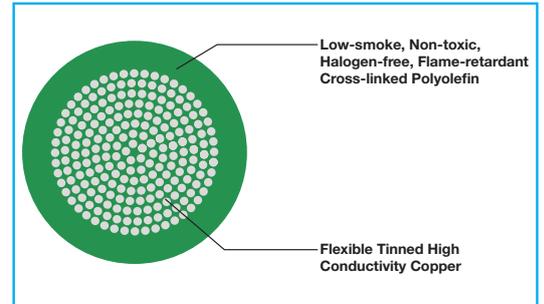
High conductivity bunched, tinned flexible copper conductors, insulated with a low smoke, non-toxic, halogen-free, flame-retardant cross-linked polyolefin. The fire retarding process greatly enhances the tensile strength, abrasion resistance, heat resistance and shrink back qualities of the insulation, while retaining its excellent ultraviolet, oil and water resistance. The principal advantage is that the insulation does not soften and deform at high temperatures, permitting short term overloading and fault currents without the conductor burning through the insulation and damaging any adjacent wiring.

## Applications

For the wiring of all types of high temperature and high performance control panels, locomotive and rolling stock control panels, signalling relay racks, elevator control panels, electrical motor winding lead out connections, etc. This product is used where above normal performance is required for fire prevention and where safety and reliability are of major concern. As this product has enhanced qualities and performance, it is used by public transport services.

## Packaging

Available in 100 metre shrink-wrapped coils.



## Specification (RE/EE/SP/015)

Voltage Rating	500 Volts
Test Voltage	2000 Volts
Temperature Range	-20° to +125°C
Flexibility Class	5
Conductor Type	Tinned flexible high conductivity copper
Insulation Material	Low-smoke, non-toxic, halogen-free, flame-retardant cross-linked polyolefin



## Technical Data

Product Code	Size mm <sup>2</sup>	Stranding No x Dia	Nominal Amps	Nominal Diameter	Mass kg/100m
SF001.5GNFRTCW	1.5	28 x 0.26	19	3.5	2.09
SF002.5GNFRTCW	2.5	42 x 0.26	27	3.9	3.34
SF004.0GNFRTCW	4.0	48 x 0.31	35	4.6	5.01
SF006.0GNFRTCW	6.0	72 x 0.31	43	5.4	6.98
SF010.0GNFRTCW	10.0	126 x 0.31	60	6.8	11.89
SF016.0GNFRTCW	16.0	200 x 0.31	77	8.5	17.60
SF025.0GNFRTCW	25.0	312 x 0.31	100	10.0	27.81

# AUTOMOTIVE TRAILER

## MULTICORE AUTOMOTIVE CABLE

### Construction

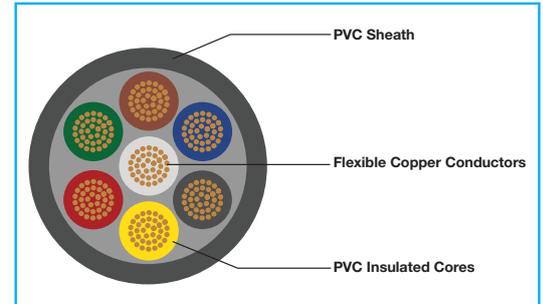
High conductivity bunched plain annealed flexible copper conductors, insulated and colour coded with a general purpose grade PVC. Cores are then twisted and sheathed in general purpose PVC. Insulation and sheath are resistant to water, lubricating oils, dilute acids and abrasion.

### Applications

For the wiring of all types of light and heavy duty motor vehicles and trailers in the original equipment and replacement markets use by auto electricians, Transport Services, Municipalities and all major transport and road haulage companies and trailer manufacturers.

### Packaging

Available in 30 metre shrink-wrapped coils.  
AM 1.6X7BK available in 30 & 100 metre shrink-wrapped coils and 1000 metre drums.



Specification	(SABS 1017 as a guide)
Voltage Rating	100 Volts
Test Voltage	1000 Volts
Temperature Range	-10° to +80°C
Flexibility Class	5
Conductor Type	High conductivity annealed copper
Insulation Material	General purpose grade PVC
Sheath Material	Ultra violet, oil, dilute acid and abrasion resistant general purpose grade PVC
Sheath Colours	Black, 2 core - Grey
Core Colours	2 core - Black, Red 5 core - Black, Blue, Brown, Yellow, White 7 core - Black, Blue, Brown, Yellow, White, Red, Green/Yellow



### Technical Data

Product Code	Size mm <sup>2</sup>	Size AWG	Stranding No X Dia	No. of Cores	Nominal Dia	Mass kg/100m
AM1.60X2GY	1.6	15	22 x 0.31	2	6.7	5.85
AM1.60X5BK	1.6	15	22 x 0.31	5	8.6	14.41
AM1.60X7BK	1.6	15	22 x 0.31	6 x 1.6 1 x 2.5	10.6	21.76

# Ho7RN-F HEAVY DUTY RUBBER INSULATED TRAILING CABLE

## Construction

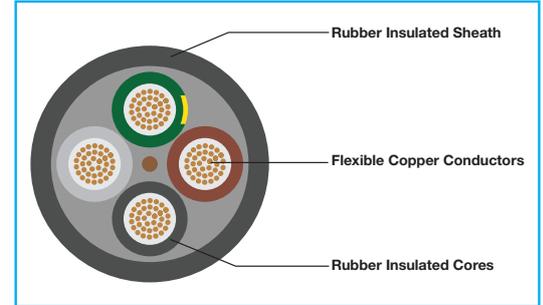
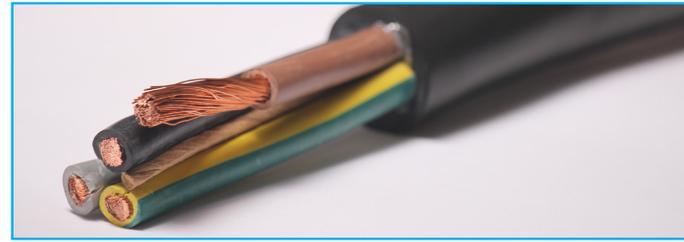
Annealed flexible copper conductors insulated with EPR rubber and sheathed with polychlorophene. The cores are colour coded according to International harmonized codes.

## Applications

Used to supply power to mobile or portable machinery. Due to multi stranding and lack of armour the cable is flexible. The insulation and the outersheath are rubber this ensures the cables flexibility and makes it water, oil, petrochemical and abrasion resistant.

## Packaging

Available in 500 metre drums.  
Cut lengths are also available on request.



## Specification

Voltage Rating	450/750 Volts
Test Voltage	1000 Volts
Temperature Range	-25° to +60°C
Bending Radius	4 x Diameter of cable
Flexibility Class	5
Conductor Type	High conductivity annealed copper
Insulation Material	EPR
Sheath Material	Rubber Sheath with Polychlorophene
Sheath Colour	Black
Core Colours	2 core - Brown, Blue 3 core - Brown, Blue, Green/Yellow 4 core - Brown, Black, Grey, Green/Yellow 5 core - Brown, Black, Grey, Blue, Green/Yellow 7 core - Number Coded



## Technical Data

Size mm <sup>2</sup>	Outer Diameter mm	Max Diameter of Wires mm	Amp Rating	Max cond. resist. at 20°C Ohm/km	Cable Weight kg/km
1 x 1.5	7.2	0.26	16	13.3	59
1 x 2.5	8.0	0.26	25	7.98	72
1 x 4	9.0	0.31	35	4.95	99
1 x 6	11.0	0.31	44	3.30	13
1 x 10	12.5	0.41	62	1.91	200
1 x 16	14.5	0.41	82	1.21	278
1 x 25	16.5	0.41	109	0.780	396
1 x 35	18.5	0.41	135	0.554	520
1 x 50	21.0	0.41	169	0.382	719
1 x 70	23.5	0.51	211	0.272	947
1 x 95	26.0	0.51	250	0.206	1250
1 x 120	28.5	0.51	270	0.161	1520
1 x 150	31.5	0.51	305	0.129	1887
1 x 185	34.5	0.51	350	0.106	2274

### Technical Data Continued

Size mm <sup>2</sup>	Outer Diameter mm	Max Diameter of wires mm	Amp Rating	Max cond. resist. at 20°C Ohm/km	Cable Weight kg/km
2 x 1	8.4	0.21	10	19.5	99
2 x 1.5	9.4	0.26	16	13.3	130
2 x 2.5	13.0	0.26	25	7.98	195
2 x 4	15.1	0.31	35	4.95	280
2 x 6	15.5	0.31	44	3.30	295
2 x 10	16.5	0.41	62	1.91	540
2 x 16	17.5	0.41	82	1.21	725
3G 1	9.1	0.21	10	19.5	125
3G 1.5	10.0	0.26	16	13.3	155
3G 2.5	12.5	0.26	25	7.98	235
3G 4	15.5	0.31	35	4.95	305
3G 6	17.5	0.31	44	3.30	495
3G 10	21.0	0.41	62	1.91	810
3G 16	24.0	0.41	82	1.21	1000
3G 25	30.1	0.41	109	0.780	1250
3G 35	36.2	0.41	135	0.554	1850
3G 50	42.0	0.41	169	0.382	2600
3G 70	48.0	0.51	211	0.272	2990
3G 95	50.0	0.51	250	0.206	4081
3G 120	53.0	0.51	270	0.161	6250
4G 1	11.0	0.21	10	19.5	150
4G 1.5	11.5	0.26	16	13.3	190
4G 2.5	14.0	0.26	25	7.98	3280
4G 4	16.0	0.31	35	4.95	380
4G 6	18.0	0.31	44	3.30	510
4G 10	23.0	0.41	62	1.91	940
4G 16	28.0	0.41	82	1.21	1250
4G 25	32.5	0.41	109	0.780	1850
4G 35	37.0	0.41	135	0.554	2310
4G 50	43.0	0.41	169	0.382	3160
4G 70	50.0	0.51	211	0.272	4250
4G 95	55.0	0.51	250	0.206	5590
4G 120	61.2	0.51	270	0.161	6790
5G 1.5	12.5	0.26	16	13.3	230
5G 2.5	15.0	0.26	25	7.98	340
5G 4	17.0	0.31	35	4.95	470
5G 6	19.5	0.31	44	3.30	630
5G 10	26.0	0.41	62	1.91	1150
7G 1.5	16.5	0.26	25	13.3	320
7G 2.5	18.0	0.26	35	7.98	470

\* Aluminium option available on request.

# SOLAR CABLE

H1Z2Z2-K

## Construction

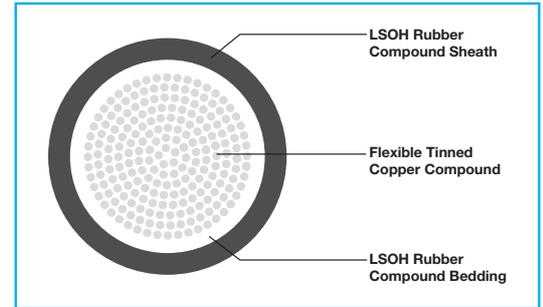
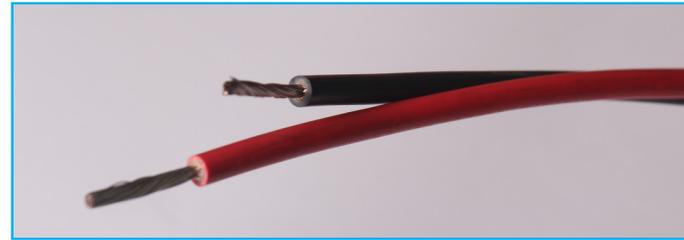
Flexible tin plated copper class 5 CEI EN 60228, LSOH Rubber compound type G21, LSOH Rubber Compound type M21. Single core cables, for photovoltaic and solar system use, elastomeric compound insulated and sheathed. Flame retardant, halogen free, and a low smoke flexible cables for fixed laying, lifetime testing 20.000h/120°C.

## Applications

Cable suitable for the interconnection of the various elements of photovoltaic systems. Suitable for fixed installation outside and inside without protection or inside pipes, ducts or similar closed systems. High resistance against ozone, U.V. rays, oils, moisture and weather inclemencies. Suitable for use at an ambient temperature up to 90°C (120° overload). The estimated lifetime of these cables is at least 25 years.

## Packaging

Available in 500 metre drums.



## Specification

Voltage Rating	1800 Volts DC
Temperature Range	-40° to +90°C
Bending Radius	4 x Diameter of cable
Flexibility Class	5
Conductor Type	Flexible tin plated/Copper class - 5 CEI EN 60228
Insulation Material	LSOH Rubber Compound
Sheath Material	LSOH Rubber Compound
Sheath Colours	Black, Red



## Technical Data

Product Code	Size mm <sup>2</sup>	Outer Diameter mm	Nominal Amps	Max cond. resist. at 20°C Ohm/km	Cable Weight kg/km
SOLAR4.0#	4.0	5.5	55	5.09	62
SOLAR6.0#	6.0	6.3	70	3.39	85
SOLAR10.0#	10.0	7.5	98	1.95	135
SOLAR16.0#	16.0	8.5	132	1.24	200

# When ordering, insert colour code here (Refer to Page 1)

### Construction

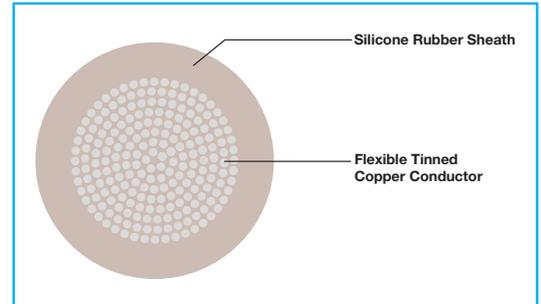
High conductivity bunched flexible tinned copper conductor, insulated and colour coded with a silicone rubber sheath.

### Applications

ALSILCO is used for wiring of high temperature and high performance control panels. This product is used where above normal performance is required for heat protection and where safety and reliability are of major concern.

### Packaging

Available in 100 metre shrink-wrapped coils.



### Specification

Voltage Rating	500 Volts
Test Voltage	2000 Volts
Temperature Range	-60° to +180°C
Flexibility Class	5
Conductor Type	Tinned flexible copper
Sheath Material	Silicone rubber
Colour Options	Blue, Green/Yellow, Red, White, Black, Brown, Yellow and Orange



### Technical Data

Product Code	Size mm <sup>2</sup>	Outer Diameter mm	Insulation Thickness mm	Nominal Amps	Cable Weight kg/km
SW000.50#	0.5	2.1	0.6	24	9.6
SW000.75#	0.75	2.4	0.6	30	13.3
SW001.00#	1.0	2.5	0.6	36	15.9
SW001.50#	1.5	2.8	0.6	45	21.9
SW002.50#	2.5	3.4	0.7	62	34.7
SW004.00#	4.0	4.2	0.8	83	54.4
SW006.00#	6.0	5.2	0.8	107	82.3
SW010.00#	10.0	6.4	1.0	152	131.9
SW016.00#	16.0	8.0	1.2	201	209.1
SW025.00#	25.0	10.0	1.4	265	326.7
SW035.00#	35.0	11.2	1.4	332	438.8
SW050.00#	50.0	13.3	1.6	419	624.0
SW070.00#	70.0	15.4	1.6	524	860.2
SW095.00#	95.0	17.8	1.8	629	1161.0

# When ordering, insert colour code here (Refer to Page 1)

# SILICONE CABTYRE

FLEXIBLE CABLES OR CORDS - SIHF

## Construction

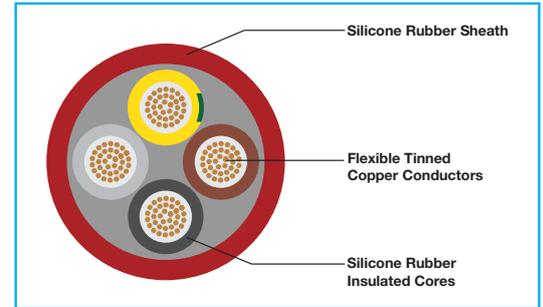
High conductivity bunched flexible tinned copper conductors, insulated and colour coded with a silicone rubber dielectric final sheath in a heat resistant silicone rubber.

## Applications

For supplying power to all types of electrical, domestic and industrial appliances and equipment such as stoves, electrical motors, pumps, florescent lights, refrigerators, washing machines, hand tools, polishers, kitchen appliances and woodworking machinery.

## Packaging

Available in 100 metre shrink-wrapped coils.



## Specification

Voltage Rating	450/750 Volts
Temperature Range	-60° to +180°C
Flexibility Class	5
Conductor Type	Tinned flexible high conductivity copper
Insulation Material	Silicone rubber
Sheath Colour	Red
Core Colours	3 core - Blue, Brown and Green/Yellow 4 core - Brown, Black, Grey and Green/Yellow



## Technical Data

Product Code	Size mm <sup>2</sup>	Outer Diameter mm	Nominal Amps	Cable Weight kg/km
SC1.00X3RD	1.0	7.4	35	93
SC1.50X3RD	1.5	8.0	45	117
SC2.50X3RD	2.5	9.7	62	179
SC4.00X3RD	4.0	11.5	83	261
SC6.00X3RD	6.0	14.2	107	398
SC1.50X4RD	1.5	8.8	45	145
SC2.50X4RD	2.5	10.6	62	222
SC4.00X4RD	4.0	13.2	83	346
SC6.00X4RD	6.0	15.6	107	497

# POLY BRAID

SIAF / MT / POL

## Construction

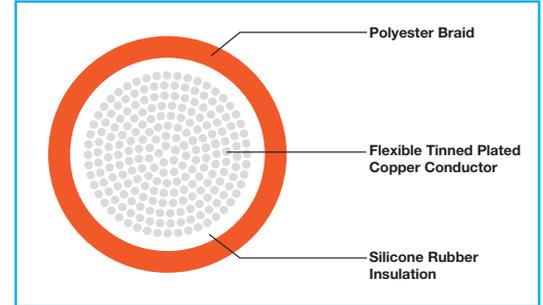
Flexible tinned copper single core silicone rubber insulated electric cables, covered with external polyester braid.

## Applications

Used for wiring of high temperature and high performance control panels. This product is used where above normal performance is required for heat protection and where safety and reliability are of major concern.

## Packaging

Available in 500 metre drums.  
Cut lengths available on request.



## Specification

Conductor Material	Flexible tinned plated copper
Conductor Class	5 CEI EN 60228
Flexibility Class	5
Insulation	Silicone rubber
Braid	Polyester braid
Voltage Rating	1.5kV
Temperature Rating	-60°C + 180°C on the conductor
Max Temperature of Short Circuit	350°C on conductor (max 5 seconds)
Bending Radius	Fixed installation: 4 x Outer Diameter
Sheath Colour	Orange



## Technical Data

Product Code	Size mm <sup>2</sup>	Insulation Thickness mm	Outer Diameter mm	Max cond. resist. at 20°C		Nominal Amp Rating	Cable Weight kg/km
				Red	Tinned		
SIAF/MT/POL1.5MM	1.5	1.0	4.0	13.3	13.7	42	26
SIAF/MT/POL2.5MM	2.5	1.1	4.7	7.98	8.21	55	38
SIAF/MT/POL4.0MM	4.0	1.2	5.4	4.95	5.09	60	53
SIAF/MT/POL6.0MM	6.0	1.2	6.0	3.30	3.39	80	72
SIAF/MT/POL10MM	10	1.2	7.0	1.91	1.95	110	114
SIAF/MT/POL16MM	16	1.4	8.4	1.21	1.24	150	174
SIAF/MT/POL25MM	25	1.6	10.0	0.780	0.795	185	263
SIAF/MT/POL35MM	35	1.6	11.2	0.554	0.565	240	353
SIAF/MT/POL50MM	50	1.8	12.9	0.382	0.393	300	503
SIAF/MT/POL70MM	70	1.8	14.6	0.272	0.277	415	696
SIAF/MT/POL95MM	95	2.0	16.5	0.206	0.210	450	901
SIAF/MT/POL120MM	120	2.0	18.3	0.161	0.164	545	1151
SIAF/MT/POL150MM	150	2.2	20.2	0.206	0.210	610	1414
SIAF/MT/POL185MM	185	2.3	22.1	0.106	0.108	700	1730