

POWER & CONTROL

cables



AQUAVERN

3 & 4 CORE SUBMERSIBLE PVC FLEXIBLE PUMP CABLE

Construction

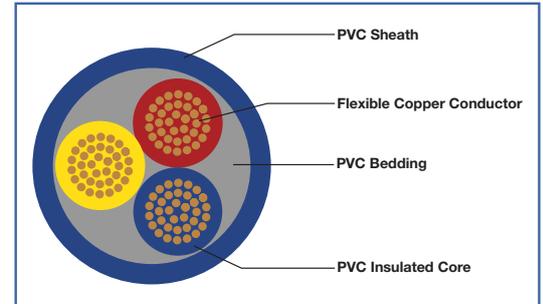
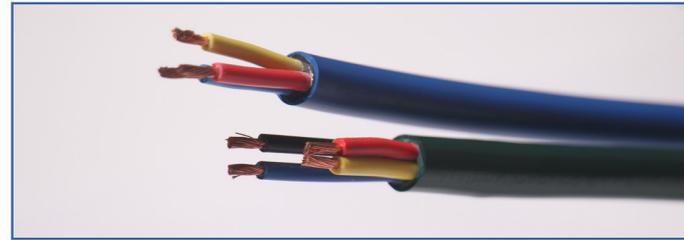
High conductivity bunched flexible copper conductors, insulated and colour coded with a general purpose waterproof flexible PVC. Insulated cores are twisted together and filled with PVC to give the cable a round finish. Final protection is with a tightly bonded waterproof, flexible PVC sheath.

Applications

PVC is superior to rubber in a waterproof submersible cable, therefore AQUAVERN can be used for supplying power to all types of indoor and outdoor, mobile, portable and fixed pumping equipment. AQUAVERN is used as a cost effective alternative to rubber insulated cables for boreholes, drainage, dewatering, cleaning and irrigation pumping equipment. AQUAVERN is used on farms and in mines, dockyards, municipalities, construction operations, railways, roadworks and factories.

Packaging

Available in 500 metre drum lengths. Cut lengths also available on request. This product is sequentially marked at one metre intervals for your convenience and security.



Specification	(SABS 1574)
Voltage Rating	600/1000 Volts
Test Voltage	3000 Volts
Temperature Range	-10° to +80°C
Flexibility Class	5
Conductor Type	High conductivity annealed copper
Insulation Material	Flexible grade waterproof PVC
Sheath Material	Flexible grade waterproof PVC
Sheath Colours	Blue for 3-core products, Green for 4-core products
Core Colours	3 core - Red, Yellow, Blue 4 core - Red, Yellow, Blue, Black



Technical Data

Product Code	Size mm ²	Stranding No x Dia	mV Drop Amp/mtr		Nominal Dia	Cubicle Wiring Amp Ratings		Mass kg/100m
			1 ph 220V	3 ph 380V		1 ph 220V	3 ph 380V	
AV01.5X3BE	1.5	28 x 0.26	29	25	10.1	16	15	14.96
AV02.5X3BE	2.5	44 x 0.26	18	15	11.1	23	20	19.30
AV04.0X3BE	4.0	49 x 0.31	11	9.5	13.0	30	27	27.65
AV06.0X3BE	6.0	74 x 0.31	7.3	6.4	14.7	38	34	37.82
AV10.0X3BE	10.0	126 x 0.31	4.4	3.8	16.9	52	46	55.77
AV16.0X3BE	16.0	200 x 0.31	2.8	2.4	18.9	69	62	76.38
AV01.5X4GN	1.5	28 x 0.26	29	25	10.9	16	15	17.70
AV02.5X4GN	2.5	44 x 0.26	18	15	12.0	23	20	23.12
AV04.0X4GN	4.0	49 x 0.31	11	9.5	14.2	30	27	34.10
AV06.0X4GN	6.0	72 x 0.31	7.3	6.4	16.0	38	34	46.00
AV10.0X4GN	10.0	126 x 0.31	4.4	3.8	18.5	52	46	68.67
AV16.0X4GN	16.0	200 x 0.31	2.8	2.4	20.7	69	62	94.87

Consult depth and motor power tables in Appendix 1 on Page 77 to determine appropriate size of cable to be utilized for application

AQUAFLAT

3 & 4 CORE FLAT SUBMERSIBLE PVC FLEXIBLE PUMP CABLE

Construction

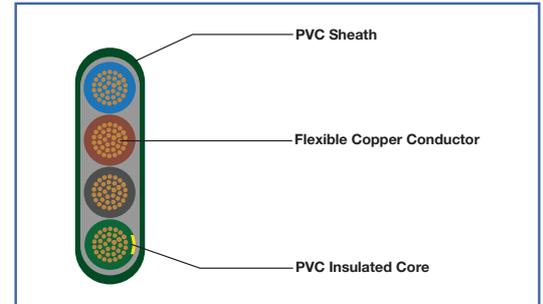
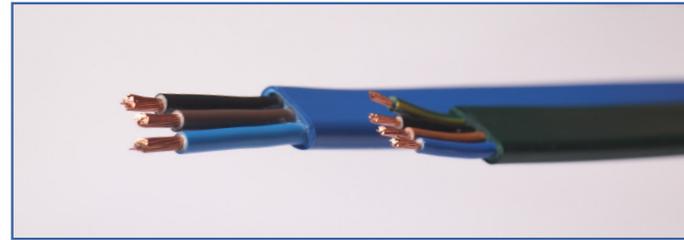
High conductivity bunched flexible copper conductors, insulated and colour coded with a general purpose waterproof flexible PVC. Insulated cores are finally protected with a tightly bonded waterproof, flexible PVC sheath in a flat configuration.

Applications

PVC is superior to rubber in a waterproof submersible cable, therefore AQUAFLAT can be used for supplying power to all types of indoor and outdoor, mobile, portable and fixed pumping equipment. AQUAFLAT is used as a cost effective alternative to rubber insulated cables for boreholes, drainage, dewatering, cleaning and irrigation pumping equipment. AQUAFLAT is used on farms and in mines, dockyards, municipalities, construction operations, railways, roadworks and factories.

Packaging

Available in 500 metre drum lengths.
Cut lengths also available on request.
This product is sequentially marked at one metre intervals for your convenience and security.



Specification	(SABS 1574 - 3)
Voltage Rating	450/750 Volts
Test Voltage	2500 Volts
Temperature Range	-10° to +80°C
Flexibility Class	5
Conductor Type	High conductivity annealed copper
Insulation Material	Flexible grade waterproof PVC
Sheath Material	Flexible grade waterproof PVC
Sheath Colours	Blue for 3-core products, Green for 4-core products
Core Colours	3 core - Black, Brown, Blue 4 core - Black, Brown, Blue, Green/Yellow



Technical Data

Product Code	Size mm ²	Stranding No x Dia	mV Drop Amp/mtr		Nominal Dia	Cubicle Wiring Amp Ratings		Mass kg/100m
			1 ph 220V	3 ph 380V		1 ph 220V	3 ph 380V	
AQF01.5X3BE	1.5	28 x 0.26	29	25	6.0 x 12	16	15	10.65
AQF02.5X3BE	2.5	44 x 0.26	18	15	7.2 x 14.5	23	20	16.11
AQF04.0X3BE	4.0	49 x 0.31	11	9.5	7.7 x 16	30	27	24.91
AQF06.0X3BE	6.0	74 x 0.31	7.3	6.4	8.3 x 17.7	38	34	32.29
AQF10.0X3BE	10.0	126 x 0.31	4.4	3.8	9.7 x 22	52	46	50.97
AQF16.0X3BE	16.0	200 x 0.31	2.8	2.4	11.4 x 26.1	69	62	76.24
AQF01.5X4GN	1.5	28 x 0.26	29	25	6.2 x 15.2	16	15	13.08
AQF02.5X4GN	2.5	44 x 0.26	18	15	7.2 x 18.2	23	20	19.44
AQF04.0X4GN	4.0	49 x 0.31	11	9.5	7.7 x 20.1	30	27	32.45
AQF06.0X4GN	6.0	72 x 0.31	7.3	6.4	8.3 x 22.4	38	34	42.29
AQF10.0X4GN	10.0	126 x 0.31	4.4	3.8	9.7 x 28.1	52	46	67.22
AQF16.0X4GN	16.0	200 x 0.31	2.8	2.4	11.4 x 33.5	69	62	100.75

Consult depth and motor power tables in Appendix 1 on Page 77 to determine appropriate size of cable to be utilized for application

MASTLITE

MULTICORE OUTDOOR MAST LIGHTING CABLE

Construction

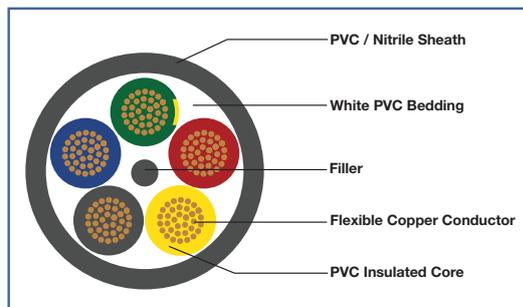
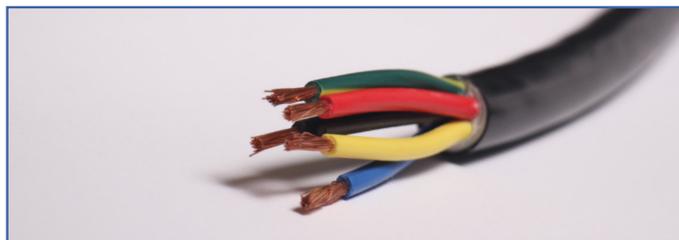
High conductivity bunched flexible copper conductors, insulated and colour coded with a general purpose flexible PVC. Insulated cores are twisted and then filled with PVC bedding to give the cable a round finish. Final protection is with a tightly bonded, ultraviolet, water, oil and abrasion resistant PVC/rubber nitrile blend sheath.

Applications

MASTLITE is used to supply power to all types of indoor and outdoor mast lighting systems, including types requiring ignition pulses of up to 6000 volts. Ideal for use in wet, oily, all weather conditions found in building/construction sites, workshops, toll road lighting, complex security lighting, mines, dockyards, opencast mining operations, railways, roadworks, sports stadiums and factories.

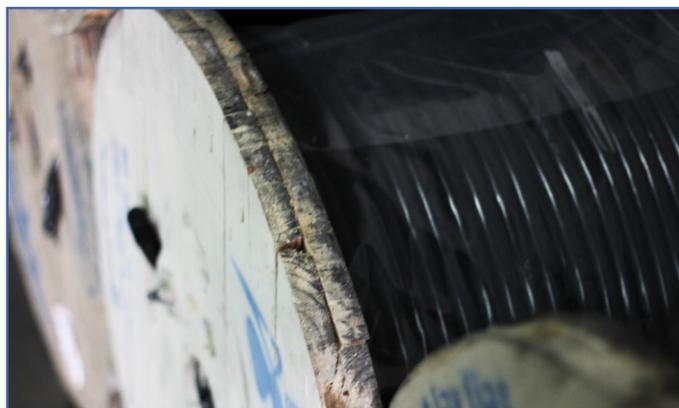
Packaging

Available in 500 metre drum lengths.
Cut lengths also available on request.



Specification (SABS 1574)

Voltage Rating	600/1000 Volts
Ignition Pulse Voltage Rating	6000 Volts
Test Voltage	3000 Volts
Temperature Range	-10° to +80°C
Flexibility Class	5
Conductor Type	High conductivity annealed copper
Insulation Material	General purpose flexible PVC
Sheath Material	UV resistant PVC/Rubber Nitrile Blend
Sheath Colour	Black
Core Colours	5 core - Red, Black, Blue, Yellow, Green/Yellow 7 core - Red, Black, Blue, Yellow, Green/Yellow, Brown, Brown with White tracer



Technical Data

Product Code	Size mm ²	Stranding No x Dia	No. of Cores	Amps/m		Nominal Amps	Nominal Dia	Mass kg/100m
				1 ph 220V	3 ph 380V			
ML2.5X5BK	2.5	44 x 0.26	5	18	15	20	13.6	28.96
ML2.5X7BK	2.5	44 x 0.26	7	18	15	20	14.6	35.99
ML4.0X5BK	4.0	49 x 0.31	5	11	9.5	27	16.0	42.19
ML4.0X7BK	4.0	49 x 0.31	7	11	9.5	27	17.5	53.35

PERMOTRAIL 4 CORE ORANGE TRAILING CABLE

Construction

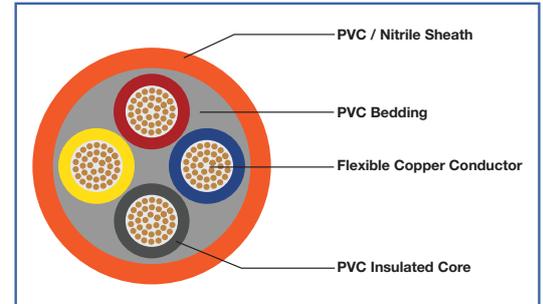
High conductivity bunched flexible copper conductors, insulated and colour coded with a general purpose flexible grade PVC. Insulated cores are twisted and bedded with PVC to give the cable a round finish. Final protection is with a tightly bonded, water, oil and abrasion resistant PVC/rubber blend nitrile sheath.

Applications

The supply of power to all types of indoor and outdoor mobile and portable machinery in wet, oily, all weather conditions. Used on buildings and construction sites, in workshops, mines, dockyards, opencast mining operations, railways, road works and factories.

Packaging

Available in 500 metre drum lengths. Cut lengths also available on request. This product is sequentially marked at one metre intervals for your convenience and security.



Specification	(SABS 1507)
Voltage Rating	600/1000 Volts
Test Voltage	3000 Volts
Temperature Range	-10° to +80°C
Bending Radius	8 x Diameter of cable
Flexibility Class	5
Conductor Type	High conductivity annealed copper
Insulation Material	Flexible grade PVC
Sheath Material	PVC/Rubber Blend Nitrile
Sheath Colours	Orange
Core Colours	Red, Yellow, Blue, Black



Technical Data

Product Code	Size mm ²	Stranding No x Dia	mV Drop Amps/m		Cubicle Wiring Amp Ratings		Nominal Dia mm	Mass kg/100m
			1 ph 220V	3 ph 380V	1 ph 220V	3 ph 380V		
PT01.5X4OR	1.5	28 x 0.26	29	25	16	15	10.9	17.38
PT02.5X4OR	2.5	44 x 0.26	18	15	23	20	12.0	22.79
PT04.0X4OR	4.0	49 x 0.31	11	9.5	30	27	14.7	34.80
PT06.0X4OR	6.0	74 x 0.31	7.3	6.4	38	34	16.1	45.28
PT10X4OR	10.0	126 x 0.31	4.4	3.8	52	46	19.1	69.80
PT16X4OR	16.0	200 x 0.31	2.8	2.4	69	62	21.3	96.10
PT25X4OR	25.0	180 x 0.41	1.75	1.5	88	80	26.3	147.30
PT35X4OR	35.0	252 x 0.41	1.25	1.1	109	99	31.7	213.10

ALV-K (RV-K)

SINGLE CORE

Construction

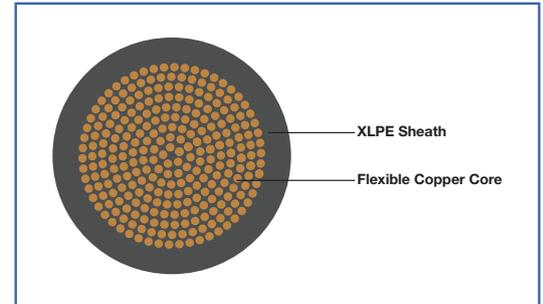
High conductivity bunched flexible copper conductors, insulated with XLPE for extra abrasion resistance and heat tolerance.

Applications

For the wiring of control panels, signaling relay racks, transformer connections, pumps and switchboards. It can be used on all types of indoor and outdoor panel and power equipment. In all weather conditions as well as wet and oily conditions. Used on buildings, construction sites, workshops, mines, dockyards, railways and factories.

Packaging

Available in 500 metre drum lengths. Cut lengths also available on request.



Specification	(SANS 1507 - 4)
Voltage Rating	450/750 Volts
Test Voltage	3000 Volts
Temperature Range	-10° to +90°C
Flexibility Class	4
Conductor Type	High conductivity annealed copper
Insulation Material	XLPE
Sheath Colour	Black



Technical Data

Product Code	Size mm ²	Outer Diameter mm	Nominal Amps	Max cond. resist. at 20°C Ohm/km	Mass kg/100m
ALVK16BK	16.0	9.1	108	1.21	220
ALVK25BK	25.0	10.7	137	0.780	320
ALVK35BK	35.0	11.9	188	0.554	420
ALVK50BK	50.0	13.6	227	0.382	560
ALVK70BK	70.0	15.7	288	0.272	785
ALVK95BK	95.0	17.3	348	0.206	1050
ALVK120BK	120.0	19.2	404	0.161	1305
ALVK150BK	150.0	21.3	450	0.129	1610
ALVK185BK	185.0	23.3	512	0.106	1985

ALV-K (RV-K)

3 & 4 CORE TRAILING CABLE

Construction

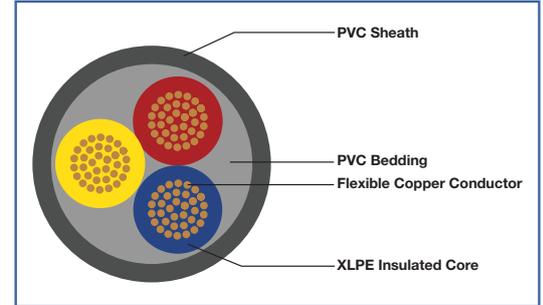
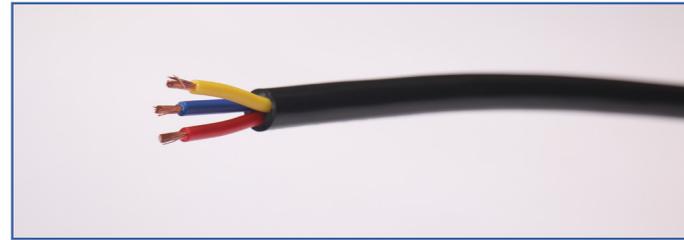
High conductivity bunched, flexible copper conductors, insulated and colour coded with XLPE. Insulated, twisted and filled with a PVC bedding to give the cable a round finish. Final protection is with a tightly bonded, water, oil and abrasion resistant PVC.

Applications

The supply of power to all types of indoor and outdoor mobile and portable machinery in all weather conditions and in wet and oily conditions. Used on buildings, construction sites, in workshops, mines, dockyards, opencast mining, railways, road works and factories.

Packaging

Available in 500 metre drum lengths. Cut lengths also available on request. This product is sequentially marked at one metre intervals for your convenience and security.



Specification	(SANS 1507 - 4)
Voltage Rating	450/750 Volts
Test Voltage	3000 Volts
Temperature Range	-10° to +90°C
Flexibility Class	4 & 5
Conductor Type	High conductivity annealed copper
Insulation Material	XLPE
Sheath Material	Flexible grade PVC
Sheath Colour	Black
Core Colours	3 core - Red, Yellow, Blue 4 core - Red, Yellow, Blue, Black



Technical Data

Product Code	Size mm ²	Stranding No & Dia	mV Drop Amps/m		Nominal Amps		Nominal Dia mm	Mass kg/100m
			1 ph 220V	3 ph 380V	1 ph 220V	3 ph 380V		
ALVK1.50X3BK	1.5	27 x 0.26	29	25	25	23	10.2	16.5
ALVK2.50X3BK	2.5	44 x 0.26	18	15	35	32	11.2	21.0
ALVK4.00X3BK	4.0	49 x 0.31	11	9.5	45	42	12.3	27.5
ALVK6.00X3BK	6.0	74 x 0.31	7.3	6.4	59	54	13.6	35.5
ALVK10.0X3BK	10.0	130 x 0.31	4.4	3.8	81	75	15.9	56.0
ALVK16.0X3BK	16.0	200 x 0.31	2.8	2.4	108	100	17.8	78.0
ALVK25.0X3BK	25.0	312 x 0.31	1.7	1.5	137	127	21.2	116.0
ALVK1.50X4BK	1.5	27 x 0.26	29	25	25	23	10.9	19.0
ALVK2.50X4BK	2.5	44 x 0.26	18	15	35	32	12.0	25.0
ALVK4.00X4BK	4.0	49 x 0.31	11	9.5	45	42	13.4	32.5
ALVK6.00X4BK	6.0	74 x 0.31	7.3	6.4	59	54	15.1	44.5
ALVK10.0X4BK	10.0	130 x 0.31	4.4	3.8	81	75	17.3	68.5
ALVK16.0X4BK	16.0	200 x 0.31	2.8	2.4	108	100	19.4	97.0
ALVK25.0X4BK	25.0	312 x 0.31	1.7	1.5	137	127	23.3	145.0

STEEL WIRE ARMoured FR

2, 3 & 4 CORE SWA CABLE

Construction

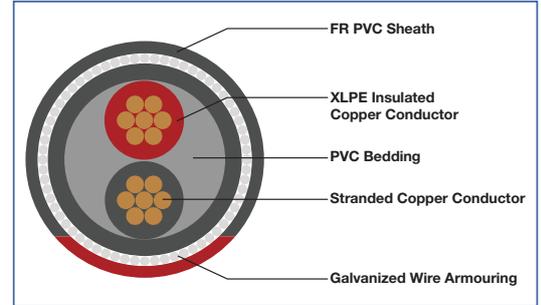
High conductivity bunched, stranded copper conductors, insulated and colour coded with XLPE. Insulated cores are twisted and filled with a PVC bedding to give the cable a round finish. It is armoured with a galvanized steel wire. Final protection is tightly bonded, with a Flame Retardant PVC.

Applications

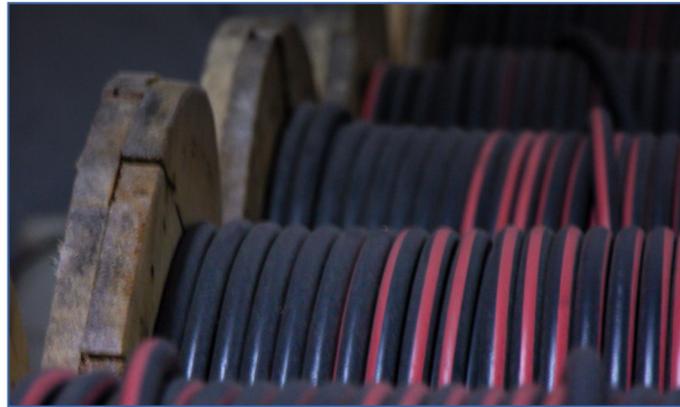
To supply power to all types of fixed installations. Suitable for use in ducts, racks and ladders as well as burial underground without further protection.

Packaging

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



Specification	(SANS 1507 - 4)
Voltage Rating	600/1000 Volts
Test Voltage	6000 Volts
Temperature Range	-10° to +80°C
Bending Radius	15 x Cable Diameter
Protection	Steel wire armour
Flexibility Class	2
Conductor Types	High conductivity annealed copper
Insulation Material	XLPE
Sheath Material	Flame Retardant PVC
Sheath Colour	Black with Red Stripe
Core Colours	2 core - Red, Black 3 core - Red, Yellow, Blue 4 core - Red, Yellow, Blue, Black



Technical Data

Product Code	Size mm ²	mV Drop Amps / mtr	Nominal Amps	Nominal Dia			Mass kg/100m		
				2C	3C	4C	2C	3C	4C
SWA01.5X*#	1.5	14.4	18	12.5	12.9	13.7	30	33	40
SWA02.5X*#	2.5	8.6	25	13.3	13.8	14.7	35	40	44
SWA04.0X*#	4.0	5.4	33	14.3	14.9	15.9	40	45	54
SWA06.0X*#	6.0	3.6	42	15.4	16.0	17.1	48	55	65
SWA10.0X*#	10.0	2.1	58	17.1	18.1	19.4	61	72	85
SWA16.0X*#	16.0	1.5	91	19.3	20.2	22.8	79	95	120
SWA25.0X*#	25.0	0.93	132	21.7	24.9	27.5	133	161	200
SWA35.0X*#	35.0	0.67	158	23.3	26.1	30.1	150	191	250
SWA50.0X*#	50.0	0.49	186	24.9	28.7	33.0	180	240	300
SWA70.0X*#	70.0	0.34	229	27.0	31.9	38.8	225	310	430
SWA90.0X*#	95.0	0.25	275	-	39.0	44.8	-	438	560
SWA120.0X*#	120.0	0.20	312	-	39.7	49.9	-	510	720
SWA150.0X*#	150.0	0.16	357	-	43.5	56.0	-	610	870
SWA185.0X*#	185.0	0.13	397	-	52.0	60.6	-	800	1050
SWA240.0X*#	240.0	0.10	459	-	57.9	67.9	-	995	1250

* When ordering, insert number of cores here.

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

STEEL WIRE ARMoured LH

2-4 CORE SWA CABLE

Construction

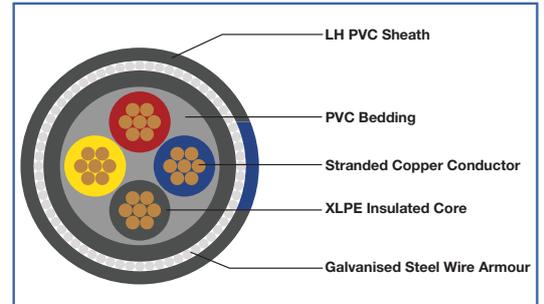
High conductivity bunched, stranded copper conductors, insulated and colour coded with XLPE. Insulated cores are twisted and filled with a PVC bedding to give the cable a round finish. It is armoured with a galvanized steel wire. Final protection is tightly bonded, with a Flame Retardant, Low Halogen PVC.

Applications

To supply power to all types of fixed installations. Suitable for use in ducts, racks and ladders as well as burial underground without further protection.

Packaging

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



Specification	(SANS 1507 - 3)
Voltage Rating	600/1000 Volts
Test Voltage	6000 Volts
Temperature Range	-10° to +80°C
Bending Radius	15 x Cable Diameter
Protection	Steel wire armour
Flexibility Class	2
Conductor Types	High conductivity annealed copper
Insulation Material	PVC
Sheath Material	Flame Retardant PVC / Low Halogen
Sheath Colours	Black with Blue Stripe
Core Colours	2 core - Red, Black 3 core - Red, Yellow, Blue 4 core - Red, Yellow, Blue, Black



Technical Data

Product Code	Size mm ²	mV Drop Amps / mtr	Nominal Amps	Nominal Dia			Mass kg/100m		
				2C	3C	4C	2C	3C	4C
SWA01.5X*#	1.5	14.4	18	12.5	12.9	13.7	30	33	40
SWA02.5X*#	2.5	8.6	25	13.3	13.8	14.7	35	40	44
SWA04.0X*#	4.0	5.4	33	14.3	14.9	15.9	40	45	54
SWA06.0X*#	6.0	3.6	42	15.4	16.0	17.1	48	55	65
SWA10.0X*#	10.0	2.1	58	17.1	18.1	19.4	61	72	85
SWA16.0X*#	16.0	1.5	91	19.3	20.2	22.8	79	95	120
SWA25.0X*#	25.0	0.93	132	21.7	24.9	27.5	133	161	200
SWA35.0X*#	35.0	0.67	158	23.3	26.1	30.1	150	191	250
SWA50.0X*#	50.0	0.49	186	24.9	28.7	33.0	180	240	300
SWA70.0X*#	70.0	0.34	229	27.0	31.9	38.8	225	310	430
SWA95.0X*#	95.0	0.25	275	-	39.0	44.8	-	438	560
SWA120.0X*#	120.0	0.20	312	-	39.7	49.9	-	510	720
SWA150.0X*#	150.0	0.16	357	-	43.5	56.0	-	610	870
SWA185.0X*#	185.0	0.13	397	-	52.0	60.6	-	800	1050
SWA240.0X*#	240.0	0.10	459	-	57.9	67.9	-	995	1250

* When ordering, insert number of cores here.

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