SANS 1507-3 PVC-SWA-PVC Low Voltage Mains Cable, 25mm² to 240mm²



Description

SANS 1507-3 is a copper PVC sheathed low voltage power transmission cable with a rated voltage of 0.6/1kV meeting South African national standards.
The SANS 1507-3 cable is armoured with PVC insulation and has a temperature range of -10°C to +70°C. To differentiate it from the SANS 1507-4 XLPE insulated 90°C cable it has a black PVC outer sheath with a blue stripe. They are commonly specified in wide range of industrial projects, in mining, petrochemical, and infrastructure environments. Due to the steel wire armour providing mechanical protection the cable is suitable for direct burial, burying in ducts and laying in racking and tray in internal and external installations.

Key Features

Voltage Rating
600/1000 Volts

Minimum Bending Radius
8 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Temperature Range: -10°C to +70°C

Core Colours

2 core - Yellow Red

3 core - Yellow Red Blue

4 core - Yellow Red Blue Black

Sheath Colour

Black with Blue Stripe

Standards

- IEC 60332-1-2

Construction

- **Conductor**: Stranded copper conductor
- **Insulation**: Polyvinyl Chloride (PVC)
- **Bedding**: Polyvinyl Chloride (PVC)
- **Armour**: Steel Wire Armour (SWA)
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Black with Blue stripe

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

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.

ISO/IEC 17025 Accredited Testing Laboratory
31196

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.

CLEVELAND CABLE COMPANY

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

SANS 1507-3 PVC-SWA-PVC Low Voltage Mains Cable, 25mm² to 240mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Insulation Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
SANS15073PVC1KV2X25	25	2	1.2	25.5	1550
SANS15073PVC1KV3X25	25	3	1.2	20.0	1830
SANS15073PVC1KV4X25	25	4	1.2	29.0	2180
SANS15073PVC1KV2X35	35	2	1.2	27.5	1660
SANS15073PVC1KV3X35	35	3	1.2	29.0	2240
SANS15073PVC1KV4X35	35	4	1.2	31.5	2670
SANS15073PVC1KV2X50	50	2	1.4	28.5	1870
SANS15073PVC1KV3X40	50	3	1.4	31.0	2495
SANS15073PVC1KV4X50	50	4	1.4	34.5	3170
SANS15073PVC1KV2X70	70	2	1.4	31.5	2385
SANS15073PVC1KV3X70	70	3	1.4	35.0	3225
SANS15073PVC1KV4X70	70	4	1.4	40.0	4395
SANS15073PVC1KV2X95	95	2	1.6	35.5	3090
SANS15073PVC1KV3X95	95	3	1.6	40.0	5320
SANS15073PVC1KV4X95	95	4	1.6	45.0	5720
SANS15073PVC1KV2X120	120	2	1.6	39.0	3870
SANS15073PVC1KV3X120	120	3	1.6	43.0	5320
SANS15073PVC1KV4X120	120	4	1.6	50.0	7230
SANS15073PVC1KV4X150	140	4	2.0	54.3	8600
SANS15073PVC1KV2X150	150	2	1.8	42..5	4620
SANS15073PVC1KV3X150	150	3	1.8	47.5	6450
SANS15073PVC1KV2X185	185	2	2.0	46.0	5515
SANS15073PVC1KV3X185	185	3	2.0	52.5	8060
SANS15073PVC1KV4X185	185	4	2.2	59.0	10350
SANS15073PVC1KV2X240	240	2	2.2	53.0	7300
SANS15073PVC1KV3X240	240	3	2.2	58.0	10125
SANS15073PVC1KV4X240	240	4	2.2	65.5	13000

Multicore armoured 70 °C thermoplastic insulated cables (COPPER CONDUCTORS) Reproduced from *BS7671:2018 Wiring Regulations*

TABLE 4D4A

CURRENT-CARRYING CAPACITY (amperes):

Ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 70°C

Conductor cross- sectional area	Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)		Reference Method D (direct in ground or in ducting in ground, in or around buildings)	
	1 two-core cable single-phase AC or DC	1 three- or four core cable, three- phase AC	1 two-core cable single-phase AC or DC	1 three- or four core cable, three-phase AC	1 two-core cable, single-phase AC or DC	1 three- or four- core cable, three-phase AC
1	2	3	4	5	6	7
mm^2	(A)	(A)	(A)	(A)	(A)	(A)
1.5	21	118	22	19	22	18
2.5	28	25	31	26	29	24
4	38	33	41	35	37	30
6	49	42	53	45	46	38
10	67	58	72	62	60	50
16	89	77	97	83	78	64
25	118	102	128	110	99	82
35	145	125	157	135	119	98
50	175	151	190	163	140	116
70	222	192	241	207	173	143
95	269	231	291	251	204	169
120	310	267	336	290	231	192
150	356	306	386	332	261	217
185	405	348	439	378	292	243
240	476	409	516	445	336	280
300	547	469	592	510	379	316
400	621	540	683	590		

TABLE 4D4B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 70°C

Conductor cross-sectional area	Two-core cable, DC	Two-core cable, single-phase AC			Three- or four-core cable, three-phase AC		
(mm2)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
1.5	29	29			25		
2.5	18	18			15		
4	11	11			9.5		
6	7.3	7.3			6.4		
10	4.4	4.4			3.8		
16	2.8	2.8			2.4		
		r	X	z	r	X	z
25	1.75	1.75	0.170	1.75	1.50	0.145	1.50
35	1.25	1.25	0.165	1.25	1.10	0.145	1.10
50	0.93	0.93	0.165	0.94	0.80	0.140	0.81
70	0.63	0.63	0.160	0.65	0.55	0.140	0.57
95	0.46	0.47	0.155	0.50	0.41	0.135	0.43
120	0.36	0.38	0.155	0.41	0.33	0.135	0.35
150	0.29	0.30	0.155	0.34	0.26	0.130	0.29
185	0.23	0.25	0.150	0.29	0.21	0.130	0.25
240	0.180	0.190	0.150	0.24	0.165	0.130	0.21
300	0.145	0.155	0.145	0.21	0.135	0.130	0.185
400	0.105	0.115	0.145	0.185	0.100	0.125	0.160

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.