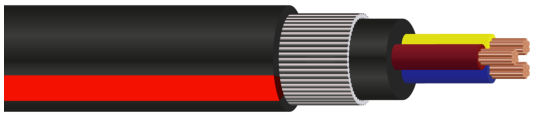
SANS 1507-4 XLPE-SWA-PVC Low Voltage Cable, Mains & Control - 1.5mm² to 16mm²



Description

SANS 1507-4 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 1507-4 cable is armoured with XLPE insulation and has a temperature range of -10°C to +90°C. To differentiate it from the SANS 1507-3 PVC insulated 70°C cable it has a black PVC outer sheath with a red 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
6 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Temperature Range: -10°C to +90°C

Core Colours

2 core - Yellow, Red

3 core - Yellow, Red, Blue

4 core - Yellow, Red, Blue, Black

Sheath Colour

Black with Red Stripe

Standards

- BS EN/IEC 60332-1-2
- SANS 1507-4

Construction

- **Conductor**: Copper Conductor
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Bedding**: Polyvinyl Chloride (PVC)
- **Armour**: Steel Wire Armour (SWA)
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Black with Red stripe

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

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.

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

SANS 1507-4 XLPE-SWA-PVC Low Voltage Cable, Mains & Control - 1.5mm² to 16mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Insulation Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
SANS15074XLPE1KV2X1/5	1.5	2	0.7	12.2	290
SANS15074XLPE1KV3X1/5	1.5	3	0.7	12.5	315
SANS15074XLPE1KV4X1/5	1.5	4	0.7	13.5	360
SANS15074XLPE1KV2X2/5	2.5	2	0.7	13.3	345
SANS15074XLPE1KV3X2/5	2.5	3	0.7	14.0	380
SANS15074XLPE1KV4X2/5	2.5	4	0.7	14.5	430
SANS15074XLPE1KV2X4	4	2	0.7	14.5	410
SANS15074XLPE1KV3X4	4	3	0.7	15.0	460
SANS15074XLPE1KV4X4	4	4	0.7	16.0	525
SANS15074XLPE1KV2X6	6	2	0.7	15.5	490
SANS15074XLPE1KV3X6	6	3	0.7	16.0	560
SANS15074XLPE1KV4X6	6	4	0.7	18.0	735
SANS15074XLPE1KV2X10	10	2	0.7	16.8	615
SANS15074XLPE1KV3X10	10	3	0.7	18.5	815
SANS15074XLPE1KV4X10	10	4	0.7	20.0	950
SANS15074XLPE1KV2X16	16	2	0.7	19.5	905
SANS15074XLPE1KV3X16	16	3	0.7	20.5	1070
SANS15074XLPE1KV4X16	16	4	0.7	22.0	1265

Multicore armoured 90 °C thermosetting insulated cables. Reproduced from *BS7671:2018 Wiring Regulations*

TABLE 4E4A

CURRENT-CARRYING CAPACITY (amps)

Ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 90°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 1 four- core cable, three- phase AC	1 two-core cable single-phase AC or DC	1 three- or 1 four- core cable, three- phase AC	1 two-core cable single-phase AC or DC	1 three- or 1 four- core cable, three- phase AC
mm2	(A)	(A)	(A)	(A)	(A)	(A)
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728		

1.Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).
2.Where it is intended to group a cable in this tablewith other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).

TABLE 4E4B

VOLTAGE DROP (per ampere per metre)

Conductor operating temperature:90°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/Nm)	(mV/Nm)			(mV/Nm)		
1.5	31	31			27		
2.5	19	19			16		
4	12	12			10		
6	7.9	7.9			6.8		
10	4.7	4.7			4.0		
16	2.9	2.9			2.5		
		R	X	Z	R	X	Z
25	1.85	1.85	0.160	1.90	1.60	0.140	1.65
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50	0.98	0.99	0.155	1.00	0.86	0.135	0.87
70	0.67	0.67	0.150	0.69	0.59	0.130	0.60
95	0.49	0.50	0.150	0.52	0.43	0.130	0.45
120	0.39	0.40	0.145	0.42	0.34	0.130	0.37
150	0.31	0.32	0.145	0.35	0.28	0.125	0.30
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26
240	0.195	0.20	0.140	0.24	0.175	0.125	0.21
300	0.155	0.16	0.140	0.21	0.140	0.120	0.185
400	0.120	0.13	0.140	0.190	0.115	0.120	0.165