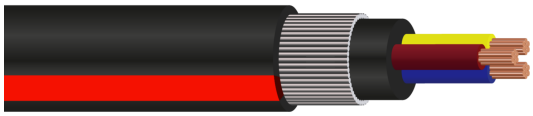
SANS 1507-4 XLPE-SWA-PVC Low Voltage Mains Cable 25mm² to 240mm²



Description

SANS 1507-4 copper low voltage mains cable with XLPE insulation, steel wire armour, and PVC sheath. Suitable for industrial, mining, and infrastructure projects, with direct burial, duct, and tray installation capabilities.

Key Features

Voltage Rating
600/1000 Volts

Minimum Bending Radius
8 x Overall Diameter

Flame Retardancy
IEC/EN 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

- IEC 60332-1-2

Construction

- **Conductor**: Stranded copper conductor
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Bedding**: Polyvinyl Chloride (PVC)
- **Armour**: Steel Wire Armour (SWA)
- **Outer Sheath**: Polyvinyl Chloride (PVC)

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 Mains Cable 25mm² to 240mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Insulation Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
SANS15074XLPE1KV2X25	25	2	0.9	24.5	910
SANS15074XLPE1KV3X25	25	3	0.9	25.5	1675
SANS15074XLPE1KV4X25	25	4	0.9	27.5	1985
SANS15074XLPE1KV2X35	35	2	0.9	26.5	1425
SANS15074XLPE1KV3X35	35	3	0.9	27.5	2055
SANS15074XLPE1KV4X35	35	4	0.9	30.5	2475
SANS15074XLPE1KV2X50	50	2	1.0	27.0	1760
SANS15074XLPE1KV3X50	50	3	1.0	30.0	2320
SANS15074XLPE1KV4X50	50	4	1.0	33.5	2895
SANS15074XLPE1KV2X70	70	2	1.1	30.5	2275
SANS15074XLPE1KV3X70	70	3	1.1	33.5	3020
SANS15074XLPE1KV4X70	70	4	1.1	39.0	4106
SANS15074XLPE1KV2X95	95	2	1.1	33.5	2850
SANS15074XLPE1KV3X95	95	3	1.1	38.5	4175
SANS15074XLPE1KV4X95	95	4	1.1	43..5	5290
SANS15074XLPE1KV2X120	120	2	1.2	38.0	3700
SANS15074XLPE1KV3X120	120	3	1.2	42.5	5045
SANS15074XLPE1KV4X2120	120	4	1.2	49.0	6840
SANS15074XLPE1KV2X150	150	2	1.4	41.0	4415
SANS15074XLPE1KV3X150	150	3	1.4	46.5	6065
SANS15074XLPE1KV4X150	150	4	1.4	53.0	8140
SANS15074XLPE1KV2X185	185	2	1.6	45.0	5270
SANS15074XLPE1KV3X185	185	3	1.6	51.5	7690
SANS15074XLPE1KV4X185	185	4	0.6	58.0	9800
SANS15074XLPE1KV2X240	240	2	1.7	51.5	6980
SANS15074XLPE1KV3X240	240	3	1.7	57.0	9600
SANS15074XLPE1KV4X240	240	4	1.7	64.5	12315

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