BS5467 Mains Cable SWA, PVC, 1kV - 25mm² to 400mm²



Description

Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and within cable ducting.

Key Features

Voltage Rating
600/1000 Volts

Minimum Bending Radius
Fixed: 8 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Fixed: -25°C to +90°C

Core Colours

2 core - Brown, Blue

3 core - Brown, Black, Grey

also stocked with: 3 core - Brown, Blue, Green Yellow

4 core - Brown, Black, Grey, Blue

5 core - Black, Grey, Blue, Green Yellow

The following cables are made to IEC 60502-1 and not covered by BASEC:

5 Core 95mm, 5 Core 120mm, 5 Core 150mm, 5 Core 185mm, 5 Core 240mm

Standards

- IEC 60502-1
- IEC 60228
- BS EN/IEC 60332-1-2
- BS5467

Construction

- **Conductor**: Class 2 stranded copper conductor
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Bedding**: Polyvinyl Chloride (PVC)
- **Armour**: Steel Wire Armour (SWA)
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Black

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.

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

BS5467 Mains Cable SWA, PVC, 1kV - 25mm² to 400mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
6942X25	25	2	7/2.14	20	1050	0.8	25
6943X25	25	3	7/2.14	23	1500	1	25
6944X25	25	4	7/2.14	25	1800	1	32
6945X25	25	5	7/2.14	29	2200	1.2	32
XLPE2EX25	25	2+E	7/2.14	23	1500	1	25
6942X35	35	2	7/2.52	22	1400	0.9	25
6943X35	35	3	7/2.52	26	1800	1.1	32
6944X35	35	4	7/2.52	28	2200	1.2	32
6945X35	35	5	7/2.52	33	2800	1.4	40
XLPE2EX35	35	2+E	7/2.52	26	1800	1.1	32
6942X50	50	2	19/1.78	25	1750	1	32
6943X50	50	3	19/1.78	28	2250	1.2	32
6944X50	50	4	19/1.78	31	2850	1.4	32
6945X50	50	5	19/1.78	38	3850	1.6	40
XLPE2EX50	50	2+E	19/1.78	28	2250	1.2	32
6942X70	70	2	19/2.14	28	2200	1.2	32
6943X70	70	3	19/2.14	32	3000	1.4	32
6944X70	70	4	19/2.14	37	4100	1.6	40
6945X70	70	5	19/2.14	43	5100	1.8	50S
XLPE2EX70	70	2+E	19/2.14	32	3000	1.4	32
6942X95	95	2	19/2.52	32	3000	1.4	40
6943X95	95	3	19/2.52	37	4150	1.6	40
6944X95	95	4	19/2.52	40	5200	1.8	50S
6945X95	95	5	19/2.52	52	7700	TC9	50
6942X120	120	2	37/2.03	35	3600	1.4	40
6943X120	120	3	37/2.03	40	4950	1.8	50S
6944X120	120	4	37/2.03	46	6700	2	50
6945X120	120	5	37/2.03	57	9030	TC9	63S
6942X150	150	2	37/2.25	37	4250	1.6	40
6943X150	150	3	37/2.25	45	6300	1.8	50
6944X150	150	4	37/2.25	49	7900	2	50
6945X150	150	5	37/2.25	61	10430	TC11	63
6942X185	185	2	37/2.52	43	5500	1.8	50
6943X185	185	3	37/2.52	49	7650	2	50
6944X185	185	4	37/2.52	55	9650	TC9	63S
6945X185	185	5	37/2.52	64.6	11480	TC11	63
6945X185	185	5	37/2.52	64.6	11480	TC11	75S

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
6942X240	240	2	61/2.25	48	6900	2	50
6943X240	240	3	61/2.25	56	9650	TC9	63S
6944X240	240	4	61/2.25	62	12400	TC10	63
6942X300	300	2	61/2.52	50	8200	2	50
6943X300	300	3	61/2.52	59	11550	TC10	63
6944X300	300	4	61/2.52	66	14800	TC11	75S
6942X400	400	2	61/2.85	56	10100	TC9	63S
6943X400	400	3	61/2.85	65	14350	TC11	75S
6944X400	400	4	61/2.85	75	19300	TC12	75

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

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