

Multicore Voltage Power Cable

BS5467 Cu/XLPE/PVC/SWA/PVC 0.6/1kV

Cable Application

Cu/XLPE/PVC/SWA/PVC power cable may be used for fixed installation indoors and outdoors in cable ducts or directly in the ground. The steel wire armoured cable is the accepted standard for underground installations, designed for use in mains supply electricity. These cables are provided with mechanical protection and are therefore suitable for external use, direct burial and areas where sudden mechanical stress are expected.

Technical Information

Conductor Material:	Copper, IEC60228
Conductor Shape:	1.5mm ² up to 16mm ² • Circular 25mm ² up to 400mm ² • Sector-shaped
Conductor Flexibility:	Stranded class 2
Insulation:	XLPE (Cross-linked Polyethylene), IEC60502
Armour Type:	Galvanized steel wires
Outer Sheath:	PVC, IEC60502
Inner Sheath:	PVC, IEC60502
Colour:	Black
Lead Free:	Yes
Rated Voltage U₀/U (Um):	600/1000V, BS5467
Installation Temperature:	Minimum: 0°C • Maximum: 60°C
Installation Type:	Outdoor • Direct burial
Operating Temperature:	Maximum: 90°C
Short-circuit Maximum Conductor Temperature:	250°C
Flame Retardant:	IEC 60332-1
Bending Radius:	1.5mm ² up to 16mm ² = 6 x Ø 25mm ² up to 400mm ² = 8 x Ø

Part number	Cross section mm ²	Stranding mm	Approx weight kg/km	Approx overall diameter	Gland size mm	Single cleat	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating laid direct amp
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2 Core: Brown & Blue

SWAPVC2X1.5	2 x 1.5	7/0.53	243	11.06	16	0.5	12.10	38
SWAPVC2X2.5	2 x 2.5	7/0.67	355	12.4	20s	0.5	7.41	49
SWAPVC2X4.0	2 x 4.0	7/0.85	393	13.38	20s	0.6	4.61	65
SWAPVC2X6.0	2 x 6.0	7/1.04	450	14.38	20	0.6	3.08	81
SWAPVC2X10	2 x 10	7/1.35	590	16.18	20	0.7	1.83	109
SWAPVC2X16	2 x 16	7/1.70	897	19.06	25	0.8	1.15	141

2 Core: Brown & Blue

SWAPVC2X25	2 x 25	7/2.14	1,050	20.0	25	0.8	0.727	183
SWAPVC2X35	2 x 35	7/2.52	1,400	23.2	32	0.9	0.524	219
SWAPVC2X50	2 x 50	19/1.78	1,750	25.1	32	1.0	0.387	259

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2 Core: Brown & Blue

SWAPVC2X70	2 x 70	19/2.14	2,200	28.5	32	1.2	0.268	317
SWAPVC2X95	2 x 95	19/2.52	3,100	32.9	32	1.4	0.193	381
SWAPVC2X120	2 x 120	37/2.03	3,700	35.1	40	1.4	0.153	433
SWAPVC2X150	2 x 150	37/2.25	4,350	37.8	40	1.6	0.124	485
SWAPVC2X185	2 x 185	37/2.52	5,700	44.7	50s	1.8	0.0991	547
SWAPVC2X240	2 x 240	61/2.25	7,280	49.0	50	2.0	0.0754	632
SWAPVC2X300	2 x 300	61/2.52	8,750	53.4	63s	2.0	0.0601	708
SWAPVC2X400	2 x 400	61/2.85	10,700	59.0	63s	TC9	0.0470	-

3 Core: Brown, Black & Grey

SWAPVC3X1.5	3 x 1.5	7/0.53	341	12.17	16	0.5	12.10	32
SWAPVC3X2.5	3 x 2.5	7/0.67	374	13.55	20s	0.6	7.41	42
SWAPVC3X4.0	3 x 4.0	7/0.85	458	14.68	20s	0.6	4.61	55
SWAPVC3X6.0	3 x 6.0	7/1.04	558	15.87	20	0.7	3.08	69
SWAPVC3X10	3 x 10	7/1.35	841	18.63	20	0.8	1.83	92
SWAPVC3X16	3 x 16	7/1.70	1,070	20.78	25	0.9	1.15	119
SWAPVC3X25	3 x 25	7/2.14	1,625	24.9	32	1.0	0.727	152
SWAPVC3X35	3 x 35	7/2.52	1,950	27.8	32	1.1	0.524	182
SWAPVC3X50	3 x 50	19/1.78	2,300	28.0	32	1.2	0.387	217
SWAPVC3X70	3 x 70	19/2.14	3,075	32.2	32	1.4	0.268	266
SWAPVC3X95	3 x 95	19/2.52	4,225	37.0	40	1.6	0.193	319
SWAPVC3X120	3 x 120	37/2.03	5,100	40.2	50s	1.8	0.153	363
SWAPVC3X150	3 x 150	37/2.25	6,510	45.3	50s	1.8	0.124	406
SWAPVC3X185	3 x 185	37/2.52	7,845	49.5	50	2.0	0.0991	458
SWAPVC3X240	3 x 240	61/2.25	9,900	55.6	63s	TC9	0.0754	529
SWAPVC3X300	3 x 300	61/2.52	13,560	59.6	63	TC10	0.0601	592
SWAPVC3X400	3 x 400	61/2.85	14,720	65.8	75s	TC11	0.0470	667

4 Core: Brown, Black, Grey & Blue

SWAPVC4X1.5	4 x 1.5	7/0.53	351	12.88	20s	0.5	12.10	32
SWAPVC4X2.5	4 x 2.5	7/0.67	429	14.43	20s	0.6	7.41	42
SWAPVC4X4.0	4 x 4.0	7/0.85	538	16.87	20	0.6	4.61	55
SWAPVC4X6.0	4 x 6.0	7/1.04	670	17.87	20	0.7	3.08	69
SWAPVC4X10	4 x 10	7/1.35	998	20.1	25	0.8	1.83	92
SWAPVC4X16	4 x 16	7/1.70	1,272	22.4	25	0.9	1.15	119
SWAPVC4X25	4 x 25	7/2.14	1,940	27.0	32	1.0	0.727	152
SWAPVC4X35	4 x 35	7/2.52	2,390	30.1	32	1.2	0.524	182

4 Core: Brown, Black, Grey & Blue

SWAPVC4X50	4 x 50	19/1.78	2,925	31.5	32	1.4	0.387	217
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4 Core: Brown, Black, Grey & Blue								
SWAPVC4X70	4 x 70	19/2.14	4,200	37.4	40	1.6	0.268	266
SWAPVC4X95	4 x 95	19/2.52	5,355	40.9	50s	1.8	0.193	319
SWAPVC4X120	4 x 120	37/2.03	6,925	46.6	50	2.0	0.153	363
SWAPVC4X150	4 x 150	37/2.25	8,200	50.2	50s	2.0	0.124	406
SWAPVC4X185	4 x 185	37/2.52	9,975	55.8	63s	TC9	0.0991	458
SWAPVC4X240	4 x 240	61/2.52	12,700	62.5	63	TC10	0.0754	529
SWAPVC4X300	4 x 300	61/2.85	15,275	67.4	75s	TC11	0.0601	592
SWAPVC4X400	4 x 400	61/3.20	19,875	77.0	75	TC12	0.0470	667
5 Core: White Numbered Cores with Black Print								
SWAPVC5X1.5	5 x 1.5	7/0.53	395	13.72	20s	0.6	12.10	32
SWAPVC5X2.5	5 x 2.5	7/0.67	497	15.46	20s	0.6	7.41	42
SWAPVC5X4.0	5 x 4.0	7/0.85	674	17.38	20	0.7	4.61	55
SWAPVC5X6.0	5 x 6.0	7/1.04	868	19.05	20	0.8	3.08	69
SWAPVC5X10	5 x 10	7/1.35	1,197	22.06	25	0.9	1.83	92
SWAPVC5X16	5 x 16	7/1.70	1,780	24.14	25	1.1	1.15	119
SWAPVC5X25	5 x 25	7/2.14	2,435	28.4	32	1.2	0.727	152
SWAPVC5X35	5 x 35	7/2.52	2,800	33	40	1.4	0.524	182
SWAPVC5X50	5 x 50	19/1.78	3,850	38.0	40	1.6	0.387	217
SWAPVC5X70	5 x 70	19/2.14	5,100	42.9	50s	1.8	0.268	266
SWAPVC5X95	5 x 95	19/2.52	7,700	52.1	50	TC9	0.193	319
7 Core: White Numbered Cores with Black Print								
SWAPVC7X1.5	7 x 1.5	7/0.53	449	14.65	20	0.6	12.10	32
SWAPVC7X2.5	7 x 2.5	7/0.67	564	16.53	20	0.8	7.41	42
SWAPVC7X4.0	7 x 4.0	7/0.85	824	18.96	25	0.8	4.61	55
SWAPVC7X6.0	7 x 6.0	7/1.04	1,105	21.6	25	0.9	3.08	69
SWAPVC7X10	7 x 10	7/1.35	1,610	25.3	25	1	1.83	98
SWAPVC7X16	7 x 16	7/1.70	2,225	28.45	32	1.2	1.15	119
SWAPVC7X25	7 x 25	7/2.14	3,880	38.4	40	1.4	0.727	152
12 Core: White Numbered Cores with Black Print								
SWAPVC12X1.5	12 x 1.5	7/0.53	756	18.9	25	0.8	12.10	32
SWAPVC12X2.5	12 x 2.5	7/0.67	971	21.76	25	0.9	7.41	42
SWAPVC12X4.0	12 x 4.0	7/0.85	1,403	25.97	32	1.0	4.61	55
SWAPVC12X6.0	12 x 6.0	7/1.04	1,910	28.1	32	1.2	3.08	69
SWAPVC12X10	12 x 10	7/1.35	2,590	32.4	32	1.4	1.83	98
19 Core: White Numbered Cores with Black Print								
SWAPVC19X1.5	19 x 1.5	7/0.53	992	21.99	25	0.9	12.10	32
SWAPVC19X2.5	19 x 2.5	7/0.67	1,447	25.63	25	1.0	7.41	42

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19 Core: White Numbered Cores with Black Print								
SWAPVC19X4.0	19 x 4.0	7/0.85	1,870	28.46	32	1.1	4.61	55
27 Core: White Numbered Cores with Black Print								
SWAPVC27X1.5	27 x 1.5	7/0.53	1,470	21.99	25	1	12.10	32
SWAPVC27X2.5	27 x 2.5	7/0.67	1,905	30.1	32	1.2	7.41	42
SWAPVC27X4.0	27 x 4.0	7/0.85	2,495	33.2	32	1.4	4.61	55
37 Core: White Numbered Cores with Black Print								
SWAPVC37X1.5	37 x 1.5	7/0.53	1,640	21.99	32	1.1	12.10	32
SWAPVC37X2.5	37 x 2.5	7/0.67	2,363	30.1	40	1.4	7.41	42
SWAPVC37X4.0	37 x 4.0	7/0.85	3,090	33.2	40	1.4	4.61	55
48 Core: White Numbered Cores with Black Print								
SWAPVC48X1.5	48 x 1.5	7/0.53	2,145	30.0	40	1.2	12.10	32
SWAPVC48X2.5	48 x 2.5	7/0.67	3,115	37.4	40	1.6	7.41	42
SWAPVC48X4.0	48 x 4.0	7/0.85	4,110	44.5	50s	1.8	4.61	55

Suitable gland types:

BW: Internal use only

CW: Internal & External

E1W: External double compression

E1WF: Flameproof

For current ratings refer to IEE Regulations tables 4E4A and B pages 120 to 121.