

SWA Cable (Steel Wire Armoured) BS5467



Application: BS5467 Steel Wire Armoured (SWA) cable is a robust low-voltage power cable engineered for superior mechanical durability. It is designed for mains electricity distribution and auxiliary control circuits, with versatility for installation indoors, outdoors, in cable ducts, or directly buried underground.

Technical Data:



1	Conductor	Class 2 pain stranded copper conductor to BS EN 60228:2005
2	Insulation	XPLE (Cross Linked Polyethylene)
3	Bedding	PVC (Polyvinyl Chloride)
4	Armouring	Multi-core: SWA (Steel Wire Armour)
5	Sheath	PVC (Polyvinyl Chloride)

Voltage Rating 600/1000V

Conductor Operating Temperature 0°C to +90°C

Core Identification

- 1 Core: Brown
- 2 Cores: Brown, Blue
- 3 Cores: Brown, Black, Grey or Brown, Blue, Green/Yellow
- 4 Cores: Brown, Black, Grey, Blue
- 5 Cores: Brown, Black, Grey, Blue, Green/Yellow

Alternative Core Identification:
White cores with black numbers



Sizes and Dimensions - 2 core

Part No.	No. Cores	Conduct or Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Actual Armour Cross Section Area (mm ²)	Overall Diameter (mm)	Gland Size	Cleat Size	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω/Km) at 20°C
6942X 1.5	2	1.5	114.93	15	12.1	20S	5	302	12.1
6942X 2.5	2	2.5	145.19	17	13.6	20S	6	346	7.41
6942X 4	2	4	169.63	19	14.7	20S	6	410	4.61
6942X 6	2	6	198.46	22	15.9	20	7	499	3.08
6942X 10	2	10	254.34	26	18.0	20	8	648	1.83
6942X 16	2	16	326.69	42	20.4	25	9	978	1.15
6942X 25	2	25	455.94	42	24.1	25	10	1290	0.727
6942X 35	2	35	426.17	60	23.3	25	10	1500	0.524
6942X 50	2	50	522.53	68	25.8	32	11	1890	0.387
6942X 70	2	70	660.19	80	29.0	32	12	2450	0.268
6942X 95	2	95	860.05	113	33.1	40	14	330	0.193
6942X 120	2	120	1023.02	125	36.1	40	16	4020	0.153
6942X 150	2	150	1212.42	138	39.3	40	18	4750	0.124
6942X 185	2	185	1568.50	191	44.7	50	20	5800	0.0991
6942X 240	2	240	1884.79	215	49.0	50	T9	7280	0.0754
6942X 300	2	300	2246.87	235	53.5	63	T9	8750	0.0601
6942X 400	2	400	2732.59	265	59.0	63	T10	10700	0.0470

NB: Actual Armour Cross Section Area (mm²)

Red shows SWA too small to be used as protective conductor. Taken from table 54G in 17th Edition of the IET Wiring Regulations (but may comply by calculation).

Black shows SWA adequate to use as protective conductor. Taken from table 54G in 17th Edition of the IET Wiring Regulations.

The information contained within this datasheet is for guidance only. Please note the actual cable dimensions may vary due to manufacturing tolerance.

Sizes and Dimensions - 3 core



Part No.	No. Cores	Conduct or Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Actual Armour Cross Section Area (mm ²)	Overall Diameter (mm)	Gland Size	Cleat Size	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω/Km) at 20°C
6943X 1.5	3	1.5	124.63	16	12.6	20s	6	330	12.1
6943X 2.5	3	2.5	156.07	19	14.1	20s	6	390	7.41
6943X 4	3	4	183.76	20	15.3	20s	6	464	4.61
6943X 6	3	6	216.31	23	16.6	20	7	568	3.08
6943X 10	3	10	298.50	39	19.5	20	8	866	1.83
6943X 16	3	16	366.25	45	21.6	25	10	1152	1.15
6943X 25	3	25	510.45	62	25.5	32	11	1800	0.727
6943X 35	3	35	615.44	68	28.0	32	11	2230	0.524
6943X 50	3	50	637.62	78	28.5	32	12	2490	0.387
6943X 70	3	70	813.92	90	32.2	40	14	3290	0.268
6943X 95	3	95	1074.67	128	37.0	40	16	4440	0.193
6943X 120	3	120	1281.25	141	40.4	50	16	5470	0.153
6943X 150	3	150	1625.15	201	45.5	50	18	6930	0.124
6943X 185	3	185	1946.83	220	49.8	50	20	8350	0.0991
6943X 240	3	240	2383.27	250	55.1	63	T9	10400	0.0754
6943X 300	3	300	2844.87	269	60.2	63	T10	12600	0.0601
6943X 400	3	400	3481.91	304	66.6	75	T11	14600	0.0470

NB: Actual Armour Cross Section Area (mm²)

Red shows SWA too small to be used as protective conductor. Taken from table 54G in 17th Edition of the IET Wiring Regulations (but may comply by calculation).

Black shows SWA adequate to use as protective conductor. Taken from table 54G in 17th Edition of the IET Wiring Regulations.

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Sizes and Dimensions - 4 core

Part No.	No. Cores	Conduct or Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Actual Armour Cross Section Area (mm ²)	Overall Diameter (mm)	Gland Size	Cleat Size	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω/Km) at 20°C
6944X 1.5	4	1.5	143.07	17	13.5	20s	6	365	12.1
6944X 2.5	4	2.5	176.63	20	15.0	20s	6	438	7.41
6944X 4	4	4	211.13	23	16.4	20	7	532	4.61
6944X 6	4	6	274.51	36	18.7	20	8	764	3.08
6944X 10	4	10	349.49	43	21.1	25	9	1013	1.83
6944X 16	4	16	411.66	49	22.9	25	11	1360	1.15
6944X 25	4	25	597.98	70	27.6	32	12	2160	0.727
6944X 35	4	35	725.47	78	30.4	32	12	2690	0.524
6944X 50	4	50	803.84	90	32.0	32	14	3130	0.387
6944X 70	4	70	1115.71	131	37.7	40	16	4500	0.268
6944X 95	4	95	1365.03	147	41.7	50	18	5600	0.193
6944X 120	4	120	1741.45	206	47.1	50	20	7400	0.153
6944X 150	4	150	2073.94	230	51.4	50	TC9	8780	0.124
6944X 185	4	185	2514.79	255	56.6	63	TC10	10630	0.0991
6944X 240	4	240	3115.75	289	63.0	63	TC11	13390	0.0754
6944X 300	4	300	3715.75	319	68.8	75	TC12	16290	0.0601
6944X 400	4	400	4788.19	452	78.1	75	TC14	19800	0.0470

NB: Actual Armour Cross Section Area (mm²)

Red shows SWA too small to be used as protective conductor. Taken from table 54G in 17th Edition of the IET Wiring Regulations (but may comply by calculation).

Black shows SWA adequate to use as protective conductor. Taken from table 54G in 17th Edition of the IET Wiring Regulations.



Sizes and Dimensions - 5 core

Part No.	No. Cores	Conduct or Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Actual Armour Cross Section Area (mm ²)	Overall Diameter (mm)	Gland Size	Cleat Size	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω/Km) at 20°C
6945X 1.5	5	1.5	143.07	19	13.5		6	390	12.1
6945X 2.5	5	2.5	176.63	22	15.0		7	465	7.41
6945X 4	5	4	211.13	25	16.4		7	579	4.61
6945X 6	5	6	274.51	40	18.7		8	820	3.08
6945X 10	5	10	349.49	46	21.1		9	1090	1.83
6945X 16	5	16	411.66	72	22.9		10	1400	1.15
6945X 25	5	25	655.64	88	28.9		12	2100	0.727
6945X 35	5	35	808.87	100	32.1		14	2580	0.524
6945X 50	5	50	1133.54	144	38.0		16	3850	0.387

Sizes and Dimensions - Multi core

Part No.	No. Cores	Conduct or Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Actual Armour Cross Section Area (mm ²)	Overall Diameter (mm)	Gland Size	Cleat Size	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω/Km) at 20°C
6945X 1.5	5	1.5	143.07	19	13.5	20S	6	390	12.1
6947X 1.5	7	1.5	181.37	20	15.2	20S	6	470	12.1
694/12X 1.5	12	1.5	295.44	39	19.4	20	8	780	12.1
694/19X 1.5	19	1.5	386.88	45	22.2	25	9	1000	12.1
694/27X 1.5	27	1.5	559.62	70	26.7	25	10	1500	12.1
694/37X 1.5	37	1.5	660.19	78	29.0	32	12	1800	12.1
6945X 2.5	5	2.5	176.63	22	15.0	20S	7	465	7.41
6947X 2.5	7	2.5	229.54	24	17.1	20	7	600	7.41
694/12X 2.5	12	2.5	393.88	45	22.4	25	9	1000	7.41
694/19X 2.5	19	2.5	555.43	70	26.6	25	10	1540	7.41
694/27X 2.5	27	2.5	739.85	84	30.7	25	12	1950	7.41
694/37X 2.5	37	2.5	896.82	94	33.8	32	14	2350	7.41

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