

6941AX - BS5467 SINGLE CORE MAINS CABLE PVC AWA



APPLICATION

General single core control / power cable for fixed wiring arrangements and power networks. Suitable for underground, indoor and outdoor use in cable ducting. This cable is BASEC approved

CABLE STANDARDS

Flame propagation to BS EN 60332-1-2
BS5467

CONSTRUCTION

Conductor: Stranded Plain Annealed Circular Copper Conductor

Insulation: Cross Linked Polyethylene (XLPE)

Bedding: PVC

Armour: Aluminium Wire

Sheath: PVC

CHARACTERISTICS

Voltage Rating: 600/1000 Volts

Temperature Limits: -15°C to +90°C

Minimum Bending Radius:
As per cable manufacturer datasheet

CORE IDENTIFICATION

Brown insulation

Black outer sheath

Should not be installed at temperatures below 0°C or above +60°C

6941AX / BS5467 CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO. OF CORES	WEIGHT KG/KM	OVERALL DIAMETER (MM)	BRASS A2	NYLON A2	NYLON CLEAT	TREFOIL CLEAT
6941AX50	50	19/1.78	1	638	17.7	20	25	0.7	-
6941AX70	70	19/2.14	1	891	19.6	25	32	0.8	-
6941AX95	95	19/2.52	1	1166	21.5	25	32	0.9	-
6941AX120	120	37/2.03	1	1412	23.1	25	32	1	-
6941AX150	150	37/2.25	1	1800	26	32	40	1.1	-
6941AX185	185	37/2.52	1	2200	28	32	40	1.2	TASB04
6941AX240	240	61/2.25	1	2800	32	40	50S	1.4	TASB06
6941AX300	300	61/2.52	1	3400	33	40	50S	1.4	TASB06
6941AX400	400	61/2.85	1	4450	38	40	50	1.6	TASB10
6941AX500	500	61/3.2	1	5550	43	50S	63S	1.8	TASB13
6941AX630	630	127/2.52	1	7100	47	50	63S	2	TASB15
6941AX800	800	127/2.85	1	9200	55	63S	75S	TC9	TASB20
6941AX1000	1000	127/3.2	1	11270	58.8	63S	75S	TC10	TASB20

6941AX / BS5467 CABLE - CURRENT CARRYING CAPACITY

CONDUCTOR CROSS - SECTIONAL AREA (MM ²)	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)								
	TOUCHING		TOUCHING			SPACED BY ONE DIAMETER					
	2 CABLES, SINGLE - PHASE AC OR DC FLAT	3 OR 4 CABLES, 3 PHASE AC FLAT	2 CABLES, SINGLE - PHASE AC OR DC FLAT	3 CABLES, 3 PHASE AC FLAT	3 CABLES, THREE - PHASE AC TREFOIL	2 CABLES DC		2 CABLES, SINGLE PHASE AC		3 OR 4 CABLES, THREE-PHASE AC FLAT	
						HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
50	237	220	253	232	222	284	270	282	266	288	266
70	303	277	322	293	285	356	349	357	337	358	331
95	367	333	389	352	346	446	426	436	412	425	393
120	425	383	449	405	402	519	497	504	477	485	449
150	488	437	516	462	463	600	575	566	539	549	510
185	557	496	587	524	529	688	660	643	614	618	574
240	656	579	689	612	625	815	782	749	714	715	666
300	755	662	792	700	720	943	906	842	805	810	755
400	853	717	899	767	815	1137	1094	929	889	848	797
500	962	791	1016	851	918	1314	1266	1032	989	923	871
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

6941AX / BS5467 CABLE - VOLTAGE DROP

CONDUCTOR CROSS-SECTIONAL AREA MM ²	2 CABLES DC	REFERENCE METHODS C AND F (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)														
		2 CABLES SINGLE PASS AC									3 OR 4 CABLES THREE PHASE AC					
		TOUCHING			SPACED			TREFOIL / TOUCHING			FLAT / TOUCHING			FLAT / SPACED		
		R	X	Z	R	X	Z	R	X	Z	R	X	Z	R	X	Z
50	0.98	0.99	0.210	1	0.98	0.29	1	0.86	0.18	0.870	0.84	0.25	0.88	0.84	0.33	0.9
70	0.67	0.68	0.2	0.71	0.69	0.29	0.75	0.59	0.17	0.62	0.6	0.25	0.65	0.62	0.32	0.7
95	0.49	0.510	0.195	0.55	0.53	0.28	0.6	0.44	0.17	0.470	0.46	0.24	0.52	0.49	0.310	0.58
120	0.39	0.410	0.19	0.45	0.43	0.27	0.51	0.35	0.165	0.39	0.38	0.24	0.44	0.410	0.3	0.51
150	0.310	0.33	0.185	0.38	0.36	0.27	0.45	0.29	0.16	0.33	0.310	0.23	0.39	0.34	0.29	0.45
185	0.25	0.270	0.185	0.33	0.3	0.26	0.4	0.23	0.16	0.28	0.26	0.23	0.34	0.29	0.29	0.41
240	0.195	0.210	0.18	0.28	0.24	0.26	0.35	0.18	0.155	0.24	0.210	0.22	0.3	0.24	0.28	0.37
300	0.155	0.17	0.175	0.25	0.195	0.25	0.32	0.145	0.15	0.210	0.17	0.22	0.28	0.2	0.270	0.34
400	0.115	0.145	0.17	0.22	0.18	0.24	0.3	0.125	0.15	0.195	0.16	0.210	0.27	0.2	0.270	0.33
500	0.093	0.125	0.170	0.210	0.165	0.24	0.29	0.105	0.145	0.18	0.145	0.2	0.25	0.19	0.24	0.31
630	0.073	0.105	0.165	0.195	0.15	0.23	0.27	0.092	0.145	0.17	0.135	0.195	0.24	0.175	0.23	0.29
800	0.056	0.09	0.16	0.19	0.145	0.23	0.27	0.086	0.14	0.165	0.13	0.18	0.23	0.175	0.195	0.26
1000	0.045	0.092	0.155	0.18	0.14	0.21	0.25	0.08	0.135	0.155	0.125	0.17	0.21	0.165	0.18	0.24

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR OPERATING TEMPERATURE: 90°C

R = RESISTIVE COMPONENT
X = REACTIVE COMPONENT
Z = IMPEDANCE VALUE

SPACING'S LARGER THAN THOSE SPECIFIED WILL RESULT IN LARGER VOLT DROP.

THE ABOVE IS IN ACCORDANCE WITH 17TH EDITION OF IEE WIRING REGULATIONS.

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