

6941AB SINGLE CORE LSZH AWA MAINS CABLE



APPLICATION

Designed for use in AC circuits, the aluminium armour prevents magnetic build up. Suitable for power networks and direct burial where fire and emissions of smoke and toxic fumes create a serious potential threat.

CABLE STANDARDS

BS6724

Flame propagation to IEC 60332-1, IEC 60332-3, BS EN 50265, Category C; BS EN 50266

Smoke emission to BS EN 50268 (IEC 61034)

Acid gas emission to BS EN 50267 (IEC 60754-1)

BASEC Approved

CONSTRUCTION

Conductor: Stranded Plain Annealed
Compacted Circular Copper Conductors

Insulation: Cross Link Polyethylene (XLPE)

Bedding: LSZH Extruded Bedding

Armouring: Aluminium Wire Armour

Sheath: LSZH

CHARACTERISTICS

Voltage Rating: 600/1000 Volts

Temperature Limits: -25°C to +90°C

Minimum Bending Radius:

As per cable manufacturer datasheet

CORE IDENTIFICATION

■ Brown

Should not be installed at temperatures below 0°C or above +40°C

6941AB SINGLE CORE LSZH AWA MAINS CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER (MM)	Gland Size (CW) Ali (MM)	GLAND SIZE BRASS A2 (MM)	NYLON CLEAT SIZE	TREFOIL CLEAT
6941AB50	50	19/1.78	1	638	17.70	20	25	0.7	-
6941AB70	70	19/2.14	1	891	19.60	25	32	0.8	-
6941AB95	95	19/2.52	1	1166	21.50	25	32	0.9	-
6941AB120	120	37/2.03	1	1412	23.10	25	32	1.0	-
6941AB150	150	37/2.52	1	1800	26.00	32	40	1.1	-
6941AB185	185	61/2.25	1	2200	28.00	32	40	1.2	TASB04
6941AB240	240	61/2.52	1	2800	32.00	40	50S	1.4	TASB06
6941AB300	300	61/2.25	1	3400	33.00	40	S50	1.4	TASB06
6941AB400	400	61/2.85	1	4450	38.00	40	50	1.6	TASB10
6941AB500	500	61/3.2	1	5550	43.00	50S	63S	1.8	TASB13
6941AB630	630	127/2.85	1	7100	47.00	50	63S	2.0	TASB15
6941AB800	800	127/2.85	1	9200	55.00	63S	75S	TC9	TASB20
6941AB1000	1000	127/3.2	1	11270	58.80	63S	75S	TC10	TASB20

6941AB SINGLE CORE AWA MAINS CABLE – CARRYING CAPACITY (AMPERES)

CONDUCTOR CROSS – SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)					REFERENCE METHOD F (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL)					
	SINGLE PHASE		TOUCHING			SPACED BY ONE CABLE DIAMETER					
	2 CABLES SINGLE-PHASE AC OR DC FLAT AMPS	3 OR 4 CABLES THREE-PHASE AC FLAT AMPS	2 CABLES SINGLE PHASE AC OR DC FLAT AMPS	3 CABLES THREE PHASE AC FLAT AMPS	3 CABLES THREE PHASE AC TREFOIL	2 CABLES DC AMPS		2 CABLES SINGLE – PHASE AC AMPS		3 OR 4 CABLES THREE PHASE AC AMPS	
						HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
50	237	220	253	232	222	284	270	282	266	288	266
70	303	277	332	239	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

6941AB SINGLE CORE AWA MAINS CABLE - VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA MM²	TWO CORE CABLE DC	REFERENCE METHOD C & F (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)														
		2 CABLES SINGLE-PHASE AC mV/A/m						3 OR 4 CABLES THREE-PHASE AC mV/A/m								
		TOUCHING			SPACED*			TREFOIL AND TOUCHING			FLAT AND TOUCHING			FLAT AND SPACED*		
		R	X	Z	R	X	Z	R	X	Z	R	X	Z	R	X	Z
50	0.980	0.990	0.210	1.000	0.980	0.29	1.00	0.860	0.180	0.870	0.840	0.250	0.88	0.840	0.330	0.90
70	0.670	0.680	0.200	0.710	0.690	0.29	0.75	0.590	0.170	0.620	0.600	0.250	0.65	0.620	0.320	0.70
95	0.490	0.510	0.195	0.550	0.530	0.28	0.60	0.440	0.170	0.470	0.460	0.240	0.52	0.490	0.310	0.58
120	0.390	0.410	0.190	0.450	0.430	0.27	0.51	0.350	0.165	0.390	0.380	0.240	0.44	0.410	0.300	0.51
150	0.310	0.330	0.185	0.380	0.360	0.27	0.45	0.290	0.160	0.330	0.310	0.230	0.39	0.340	0.290	0.45
185	0.250	0.270	0.185	0.330	0.300	0.26	0.40	0.230	0.160	0.280	0.260	0.230	0.34	0.290	0.290	0.41
240	0.195	0.210	0.180	0.280	0.240	0.26	0.35	0.180	0.155	0.240	0.210	0.220	0.30	0.240	0.280	0.37
300	0.155	0.170	0.175	0.250	0.195	0.25	0.32	0.145	0.150	0.210	0.170	0.220	0.28	0.200	0.270	0.34
400	0.115	0.145	0.170	0.220	0.180	0.24	0.30	0.125	0.150	0.195	0.160	0.210	0.27	0.200	0.270	0.33
500	0.093	0.125	0.170	0.210	0.165	0.24	0.29	0.105	0.145	0.180	0.145	0.200	0.25	0.190	0.240	0.31
630	0.073	0.105	0.165	0.195	0.150	0.23	0.27	0.092	0.145	0.170	0.135	0.195	0.24	0.175	0.230	0.29
800	0.056	0.090	0.160	0.190	0.145	0.23	0.27	0.086	0.140	0.165	0.130	0.180	0.23	0.175	0.195	0.26
1000	0.045	0.092	0.155	0.180	0.140	0.21	0.25	0.080	0.135	0.155	0.125	0.170	0.21	0.165	0.180	0.24

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