

6941AB Mains Cable 3.3KV - BS6724, XLPE, AWA, LSZH - 120mm² to 630mm²



Description

 $6941AB\ 3.3kV\ LSZH$ mains cable, most commonly used in power networks. Within AC circuits, as well as providing mechanical protection, the aluminium armour also prevents magnetic build up. The cable can be used is public places where increased safety is required due to the Low smoke Zero Halogen (LSZH) outer sheath.

Key Features



Voltage Rating 1.9kV-3.3kV



Minimum Bending Radius 15 x Overall Diameter



Flame Retardancy BS EN/IEC 60332-1-2 BS EN/IEC 60332-3-24



Temperature Limits

Temperature Range: -15°C to + 90°C Maximum short-circuit temperature: 250°C

Core Colours



(Inner)

Standards

- BS6724
- BS EN/IEC 60332-1-2
- IEC/EN 60754-1/2
- BS EN/IEC 60228
- BS EN/IEC 61034

Construction

- Conductor: Class 2 stranded copper conductor
- Insulation: Cross Linked polyethylene (XLPE)
- Bedding: Low Smoke Zero Halogen (LSZH)
- Armour: Aluminium Wire Armour (AWA)
- Outer Sheath: Low Smoke Zero Halogen (LSZH)
- Sheath Colour: Black

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







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.



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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

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6941AB Mains Cable 3.3KV - BS6724, XLPE, AWA, LSZH - 120mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm) Weight(Kg/Km) Trefoil Cleat Nylon 0		Nylon Cleat Size	Gland Size	
6941AB120/3	120	1	37/2.03	23.2	1490	NONE	1.2	25
6941AB150/3	150	1	37/2.25	26.3	1870	NONE	1.2	32
6941AB185/3	185	1	37/2.52	28.7	2290	TASB04	1.4	32
6941AB240/3	240	1	61/2.25	31.4	2880	TASB05	1.4	40
6941AB300/3	300	1	61/2.52	34.1	3520	TASB07	1.8	40
6941AB400/3	400	1	61/2.85	38.9	4520	TASB10	1.8	50S
6941AB500/3	500	1	61/3.20	42.8	5680	TASB12	1.8	50\$
6941AB630/3	630	1	127/2.52	47.3	7120	TASB15	2	50





















TABLE 4E3A

CURRENT-CARRYING CAPACITY (Amps)

Ambient temperature: 30°C

Conductor cross sectional area	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)									
			Touching			Spaced by one cable diameter						
	2 cables, single phase AC or DC phase AC flat flat		2 cables, single phase AC or DC flat	3 cables, three phase AC flat	hase 4 cables, three phase AC Trefoil	2 cables, DC		2 cables, single- phase AC		3 or 4 cables, three- phase AC		
	nac	nat	at	,.at	1161011	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
(mm ²)	(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	

^{*} with or without a protective conductor

















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^{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 table with other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group of the gro

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	Х	Z	R	Х	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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