

6941AX Mains Cable 3.3KV - BS5467, AWA, XLPE - 120mm2 to 630mm2



Description

 $6941 AX\ 3.3 kV$ mains cable. Single core aluminium wire armoured cable most commonly used in power networks, due to the armour providing mechanical protection. Designed for use in AC circuits, the aluminium armour prevents magnetic build up and the PVC outer sheath protects the cable.

Key Features



Voltage Rating 1900/3300 Volts



Minimum Bending Radius 8 x Overall Diameter



Flame Retardancy BS EN 60332-1-2

Core Colours

Insulation: Brown

Outer Sheath:

Standards

- BS5467
- BS EN/IEC 60502-1
- BS EN/IEC 60228
- IEC/EN 60332-1-2
- BS EN / IEC 60332

Construction

- Conductor: Class 2 stranded copper conductor
- Insulation: Cross Linked polyethylene (XLPE)
- Bedding: Polyvinyl Chloride (PVC)
- Armour: Aluminium Wire Armour (AWA)
- Outer Sheath: Polyvinyl Chloride (PVC)
- 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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6941AX Mains Cable 3.3KV - BS5467, AWA, XLPE - 120mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm) Weight(Kg/Km)		Trefoil Cleat	Nylon Cleat Size	Gland Size	
6941AX120/3	120	1	37/2.03	23.2	1490	NONE	1.2	25	
6941AX150/3	150	1	37/2.25	26.3	1870	NONE	1.2	32	
6941AX185/3	185	1	37/2.52	28.7	2290	TASB04	1.4	32	
6941AX240/3	240	1	61/2.25	31.4	2880	TASB05	1.4	40	
6941AX300/3	300	1	61/2.52	34.1	3520	TASB07	1.8	40	
6941AX400/3	400	1	61/2.85	38.9	4520	TASB10	1.8	50\$	
6941AX500/3	500	1	61/3.20	42.8	5680	TASB12	1.8	50S	
6941AX630/3	630	1	127/2.52	47.3	7120	TASB15	2	50	















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TABLE 4E3A

CURRENT-CARRYING CAPACITY (Amps)

Ambient temperature: 30°C Conductor operating temperature:90°C

Conductor cross sectional area	Reference Metho	d C (clipped direct)	Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)											
	Touc	ching		Touching		Spaced by one cable diameter								
	2 cables, single phase AC or DC flat	3 or 4 cables, three phase AC flat	2 cables, single phase AC or DC flat	3 cables, three phase AC flat	4 cables, three phase AC Trefoil	2 ca	bles, C	2 ca single- p		3 or 4 cables, three- phase AC				
	nuc.					Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical			
(mm²) (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			















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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 m um operating temperature of the coble, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).

TABLE 4E3B

VOLTAGE DROP (per ampere per metre)

														Conductor C	perating temp	rerature.70 C
Conductor cross- sectional area c	2 cables, DC	Reference Methods C & F (clipped direct, on tray or in free air)														
		2 cables, single-phase AC						3 or 4 cables, three-phase AC								
			touching			spaced*		tre	foil and touch	ing	fl	at and touchir	ng	f	lat and spaced	*
(mm²) (mV/ A	(mV/ Alm)	(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)		
	(, /am)	r	Х	Z	r	х	Z	r	х	Z	r	х	z	r	х	Z
50	0.98	0.99	0.21	1.00	0.98	0.29	1.00	0.86	0.180	0.87	0.84	0.25	0.88	0.84	0.33	0.90
70	0.67	0.68	0.200	0.71	0.69	0.29	0.75	0.59	0.170	0.62	0.60	0.25	0.65	0.62	0.32	0.70
95	0.49	0.51	0.195	0.55	0.53	0.28	0.60	0.44	0.170	0.47	0.46	0.24	0.52	0.49	0.31	0.58
120	0.39	0.41	0.190	0.45	0.43	0.27	0.51	0.35	0.165	0.39	0.38	0.24	0.44	0.41	0.30	0.51
150	0.31	0.33	0.185	0.38	0.36	0.27	0.45	0.29	0.160	0.33	0.31	0.23	0.39	0.34	0.29	0.45
185	0.25	0.27	0.185	0.33	0.30	0.26	0.40	0.23	0.160	0.28	0.26	0.23	0.34	0.29	0.29	0.41
240	0.195	0.21	0.180	0.28	0.24	0.26	0.35	0.180	0.155	0.24	0.21	0.22	0.30	0.24	0.28	0.37
300	0.155	0.170	0.175	0.25	0.195	0.25	0.32	0.145	0.150	0.21	0.170	0.22	0.28	0.20	0.27	0.34
400	0.115	0.145	0.170	0.22	0.180	0.24	0.30	0.125	0.150	0.195	0.160	0.21	0.27	0.20	0.27	0.33
500	0.093	0.125	0.170	0.21	0.165	0.24	0.29	0.105	0.145	0.180	0.145	0.20	0.25	0.190	0.24	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	0.23	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

 ${\it NOTE:} \quad {\it *Spacings larger than one cable diameter will result in a larger voltage drop.}$

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