



XAI 331 Cable Armoured 600/1000V

Applications:	XAI 331 armoured fire resistant power cable to IEC60092-353 and IEC60331
Conductor:	Plain flexible compacted copper IEC60228 Class 2 conductors Electrical characteristic of class 2 but with flexibility of class 5
Insulation:	Mica tape plus XL100 (XLPE based compound)
Core Identification:	1 Core – Black 2 Core – Black and Light Blue 3 Core – Black, Brown and Light Blue 4 Core – Black, Blue, Brown and White 5 Core and Above – White and numbered
Bedding:	Halogen free Flamebar®
Armour:	Plain copper wire braid
Sheath/Jacket:	Halogen free SHF1 compound
Colour:	Black
Operating Temperature:	100°C
Voltage:	Nominal Voltage U ₀ /U: 0.6/1 kV Maximum Voltage U _{max} : 1.2 kV
Standards:	Design and Construction: IEC60092-353 Flame retardancy: IEC60332-1, IEC60332-3-22 (catA) Fire resistance: IEC60331-21 Corrosivity: IEC60754-1, IEC60754-2 Smoke density: IEC61034-2 Toxicity and smoke density: IMO Resolution MSC 41(64) and ATS 1000.001 tech spec Cold bend and impact test (-40°C): CSA C22.2 No 38-95 UL1581
Approvals:	ABS, Bureau Veritas, DNV, Lloyd's Register & Russian Maritime Register of Shipping



One Core											BATT Part No.
Construction (mm ²)	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Under armour diameter approx. (mm)	Outer sheath thickness approx. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)	Min bending radius approx. (mm)	Current rating at 45°C in air approx. (a)	Conductor resistance at 20°C (Z/KM)	Short circuit rating (kA)	
1 x 1.5	1.6	0.7	3.5	1.0	6.3	69	25	28	12.200	0.21	-
1 x 2.5	2	0.7	4.1	1.0	6.9	85	27	35	7.560	0.35	-
1 x 4	2.7	0.7	4.7	1.0	7.5	108	30	47	4.700	0.58	-
1 x 6	3.2	0.7	5.3	1.1	8.3	137	33	58	3.110	0.87	-
1 x 10	3.9	0.7	6.2	1.1	9.2	201	37	70	1.840	1.46	-
1 x 16	5.1	0.7	7.4	1.1	10.4	273	42	93	1.160	2.33	-
1 x 25	6.7	0.9	9.7	1.2	12.9	411	52	117	0.735	3.65	-
1 x 35	7.4	0.9	10.4	1.3	14.3	556	57	147	0.530	5.11	-
1 x 50	8.8	1.0	11.8	1.3	15.7	723	63	180	0.391	7.30	-
1 x 70	10	1.1	14.1	1.4	18.2	968	73	283	0.270	10.20	14105
1 x 95	12.8	1.1	16	1.5	20.3	1252	81	285	0.195	13.90	-
1 x 120	14	1.2	17.9	1.6	22.4	1542	90	333	0.154	17.50	-
1 x 150	15.3	1.4	19.9	1.7	24.6	1888	98	386	0.126	21.90	-
1 x 185	16.7	1.6	20.8	1.7	25.5	2243	102	444	0.100	27	-
1 x 240	19.8	1.7	24.8	1.9	30.0	2892	120	528	0.076	35	-
1 x 300	22.4	1.8	27.2	2.0	32.5	3531	130	612	0.061	43.80	-



Two Core

Construction (mm ²)	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Under armour diameter approx. (mm)	Outer sheath thickness approx. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)	Min bending radius approx. (mm)	Current rating at 45°C in air approx. (a)	Conductor resistance at 20°C (Z/KM)	Short circuit rating (kA)	BATT Part No.
2 x 1.5	1.6	0.7	6.9	1.1	9.9	152	40	23	12.200	0.21	14064
2 x 2.5	2	0.7	7.9	1.2	11.2	195	45	31	7.560	0.35	14078
2 x 4	2.7	0.7	9.2	1.2	12.5	252	50	43	4.700	0.58	14121
2 x 6	3.2	0.7	10.3	1.3	14.3	361	57	55	3.110	0.87	41091
2 x 10	3.9	0.7	13.3	1.4	17.4	508	70	75	1.840	1.46	-
2 x 16	5.1	0.7	15.9	1.5	20.2	704	81	100	1.160	2.33	-
2 x 25	6.7	0.9	20.2	1.7	25	1081	100	130	0.735	3.65	14279
2 x 35	7.4	0.9	21.9	1.7	26.6	1302	106	161	0.530	5.11	-
2 x 50	8.8	1.0	24.8	1.9	29.9	1776	120	196	0.391	7.30	-
2 x 70	10	1.1	29.7	2.1	35.3	2350	141	236	0.270	10.20	-
2 x 95	12.8	1.1	33.8	2.2	40	3162	160	287	0.195	13.90	-

Three Core

Construction (mm ²)	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Under armour diameter approx. (mm)	Outer sheath thickness approx. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)	Min bending radius approx. (mm)	Current rating at 45°C in air approx. (a)	Conductor resistance at 20°C (Z/KM)	Short circuit rating (kA)	BATT Part No.
3 x 1.5	1.6	0.7	7.5	1.1	10.5	174	42	20	12.200	0.21	14065
3 x 2.5	2	0.7	8.6	1.2	11.8	227	47	28	7.560	0.35	14092
3 x 4	2.7	0.7	10	1.2	13.2	299	53	37	4.700	0.58	14113
3 x 6	3.2	0.7	11.2	1.3	15.1	430	60	47	3.110	0.87	14093
3 x 10	3.9	0.7	13.3	1.4	17.4	611	70	65	1.840	1.46	14063
3 x 16	5.1	0.7	15.9	1.5	20.2	852	81	87	1.160	2.33	14111
3 x 25	6.7	0.9	20.2	1.7	25	1263	100	110	0.735	3.65	14143
3 x 35	7.4	0.9	21.9	1.7	26.6	1578	106	137	0.530	5.11	14109
3 x 50	8.8	1.0	24.8	1.9	29.9	2139	120	167	0.391	7.30	14108
3 x 70	10	1.1	29.7	2.1	35.3	2924	141	214	0.270	10.20	14106
3 x 95	12.8	1.1	33.8	2.2	40	3870	160	259	0.195	13.90	-
3 x 120	14	1.2	37.9	2.4	44.5	4823	178	301	0.154	17.50	-
3 x 150	15.3	1.4	42.3	2.6	49.2	5917	197	347	0.126	21.90	-
3 x 185	16.7	1.6	44.2	2.6	51.2	6978	205	397	0.100	27	-
3 x 240	19.8	1.7	53	3	60.7	9181	243	468	0.076	35	-
3 x 300	22.4	1.8	58	3.2	66.2	11132	265	551	0.061	43.80	-



Four Core

Construction (mm ²)	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Under armour diameter approx. (mm)	Outer sheath thickness approx. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)	Min bending radius approx. (mm)	Current rating at 45°C in air approx. (a)	Conductor resistance at 20°C (Z/KM)	Short circuit rating (kA)	BATT Part No.
4 x 1.5	1.6	0.7	8.3	1.2	11.5	209	46	20	12.200	0.21	14089
4 x 2.5	2	0.7	9.5	1.2	12.8	272	51	28	7.560	0.36	14095
4 x 4	2.7	0.7	11.1	1.3	15	409	60	37	4.700	0.58	-
4 x 6	3.2	0.7	12.4	1.4	16.5	524	66	47	3.110	0.87	-
4 x 10	3.9	0.7	14.8	1.5	19.1	729	76	65	1.840	1.46	14112
4 x 16	5.1	0.7	17.7	1.6	22.2	1031	89	87	1.160	2.33	14110
4 x 25	6.7	0.9	22.5	1.8	27.4	1532	110	110	0.735	3.65	14095
4 x 35	7.4	0.9	24.3	1.8	29.3	2021	117	137	0.530	5.11	-
4 x 50	8.8	1.0	27.6	2	32.9	2727	132	167	0.391	7.30	14107
4 x 70	10	1.1	33.1	2.2	39.3	3766	157	214	0.270	10.20	-
4 x 95	12.8	1.1	37.7	2.4	44.2	4926	177	259	0.195	13.90	-
4 x 120	14	1.2	42.3	2.6	49.2	6167	197	301	0.154	17.50	-
4 x 150	15.3	1.4	47.1	2.8	54.4	7582	218	347	0.126	21.90	-
4 x 185	16.7	1.6	49.3	2.9	56.8	9023	227	397	0.100	27	-
4 x 240	19.8	1.7	59.0	3.2	67.2	11726	269	468	0.076	33.80	-

Five Core and Above

Construction (mm ²)	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Under armour diameter approx. (mm)	Outer sheath thickness approx. (mm)	Overall diameter approx. (mm)	Weight approx. (kg/km)	Min bending radius approx. (mm)	Current rating at 45°C in air approx. (a)	Conductor resistance at 20°C (Z/KM)	Short circuit rating (kA)	BATT Part No.
5 x 1.5	1.6	0.7	9.3	1.2	12.5	242	50	12	12.200	0.21	-
7 x 1.5	1.6	0.7	10.3	1.3	14.2	328	57	11	12.200	0.21	14096
10 x 1.5	1.6	0.7	13.7	1.4	17.8	452	71	10	12.200	0.21	14144
12 x 1.5	1.6	0.7	14.3	1.4	18.4	500	74	9	12.200	0.21	14134
14 x 1.5	1.6	0.7	15.2	1.5	19.5	571	78	9	12.200	0.21	14135
16 x 1.5	1.6	0.7	16.2	1.5	20.5	633	82	8	12.200	0.21	-
19 x 1.5	1.6	0.7	17.2	1.5	21.5	703	86	8	12.200	0.21	14090
24 x 1.5	1.6	0.7	20.6	1.7	25.3	892	101	7	12.200	0.21	14291
27 x 1.5	1.6	0.7	21	1.7	25.8	957	103	7	12.200	0.21	-
30 x 1.5	1.6	0.7	21.9	1.7	26.6	1031	106	6	12.200	0.21	-
37 x 1.5	1.6	0.7	23.9	1.8	28.8	1223	115	6	12.200	0.21	-
5 x 2.5	2.0	0.7	10.7	1.3	14.6	355	58	17	7.560	0.36	-
7 x 2.5	2.0	0.7	11.8	1.3	15.8	424	63	15	7.560	0.36	-
12 x 2.5	2.0	0.7	16.4	1.5	20.7	671	83	13	7.560	0.36	-
19 x 2.5	2.0	0.7	19.7	1.7	24.4	973	98	11	7.560	0.36	-
27 x 2.5	2.0	0.7	24.2	1.8	29.1	1311	117	9	7.560	0.36	-
37 x 2.5	2.0	0.7	27.5	2.0	32.8	1713	131	9	7.560	0.36	-