



4 CORE ALUMINIUM XLPE ARMOURED POWER CABLES

No. of Cores & Cross sectional area mm ²	Min. No. of wires	Thicknes of Insulation (Nom) mm	Min. Thickness Of inner sheath mm	Nominal Dimensions of Armour		Min.Thickness of Outer Sheath		Overall Diameter (Approx)		Approx. Net Wt. of Cable		Max. DC Resistance at 20°C	Max. AC Resistance at 90°C	Approx. Reactance at 50 Hz	Approx. Capacitance	CURRENT RATINGS	
				Strip mm	Wire mm	Wire Armour mm	Strip Armour mm	Wire Armour mm	Strip Armour mm	Wire Armour Kg/Km	Strip Armour Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	mFd/Km	Direct in Ground Amps	In Air Amps
4CX16	7	0.7	0.3	4x0.8	1.60	1.40	1.40	22.8	21.2	862	640	1.91	2.45			73	96
4CX25	7	0.9	0.3	4x0.8	1.60	1.40	1.40	23.8	23.2	1031	792	1.2	1.54	0.08	0.2	94	117
4CX35	7	0.9	0.3	4x0.8	1.60	1.40	1.40	26.0	24.4	1212	959	0.868	1.11	0.08	0.23	113	142
4CX50	7	1	0.3	4x0.8	1.60	1.56	1.56	29.5	27.9	1515	1214	0.641	0.82	0.078	0.24	133	179
4CX70	19	1.1	0.4	4x0.8	2.00	1.56	1.56	34.1	31.7	2112	1581	0.443	0.567	0.077	0.26	164	221
4CX95	19	1.1	0.4	4x0.8	2.00	1.72	1.56	37.9	35.2	2606	1975	0.32	0.41	0.074	0.29	196	257
4C X 120	19	1.2	0.5	4x0.8	2.00	1.88	1.72	41.9	39.1	3102	2422	0.253	0.325	0.072	0.29	223	292
4C X 150	19	1.4	0.5	4x0.8	2.50	2.04	1.88	46.3	42.6	3985	2892	0.206	0.265	0.072	0.29	249	337
4C X 185	37	1.6	0.5	4x0.8	2.50	2.20	2.04	51.5	47.8	4761	3542	0.164	0.211	0.072	0.29	282	399
4C X 240	37	1.7	0.6	4x0.8	2.50	2.36	2.20	57.5	53.8	5824	4453	0.125	0.162	0.072	0.31	326	455
4C X 300	37	1.8	0.7	4x0.8	3.15	2.52	2.36	64.5	59.5	7518	5394	0.1	0.13	0.071	0.33	367	530
4C X 400	61	2	0.7	4x0.8	3.15	2.84	2.68	72.1	67.1	9179	6779	0.0778	0.1023	0.07	0.33	418	96

4 ALUMINIUM XLPE UNARMoured POWER CABLES

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Corporate Office : Dharahara Tower, Taha Gali, Sundhara, Kathmandu, Nepal



Type	No. of Cores & Cross sectional area mm ²	Min. No. of wires	Thickness of Insulation (Nom) mm	Min. Thickness of inner sheath mm	Min. Thickness of outer sheath mm	Overall Diameter (Approx) mm	Net Wt. of Cable (Approx) Kg/Km	Max. DC Resistance at 20°C	Max. AC Resistance at 90°C	Approx. Reactance at 50 Hz	Approx. Capacitan ce	Current Ratings	
								Ohms/Km	Ohms/Km	Ohms/Km	mFd/Km	Direct in Ground Amps	In Air Amps
A2xy	4CX16	7	0.7	0.3	1.80	21.0	457	1.9100	2.4500			73	70
A2xy	4CX25	7	0.9	0.3	2.00	22.4	618	1.2000	1.5400	0.080	0.20	94	96
A2xy	4CX35	7	0.9	0.3	2.00	24.6	763	0.8680	1.1100	0.080	0.23	113	117
A2xy	4CX50	7	1.0	0.3	2.00	27.8	964	0.6410	0.8200	0.078	0.24	133	142
A2xy	4CX70	19	1.1	0.4	2.20	32.0	1321	0.4430	0.5670	0.077	0.26	164	179
A2xy	4CX95	19	1.1	0.4	2.20	35.5	1681	0.3200	0.4100	0.074	0.29	196	221
A2xy	4CX120	19	1.2	0.5	2.40	39.5	2103	0.2530	0.3250	0.072	0.29	223	257
A2xy	4CX150	19	1.4	0.5	2.60	43.0	2551	0.2060	0.2650	0.072	0.29	249	292
A2xy	4CX185	37	1.6	0.5	2.80	48.3	3164	0.1640	0.2110	0.072	0.29	282	337
A2xy	4CX240	37	1.7	0.6	3.00	54.6	4067	0.1250	0.1620	0.072	0.31	326	399
A2xy	4CX300	37	1.8	0.7	3.20	60.6	5012	0.1000	0.1300	0.071	0.33	367	455
A2xy	4CX400	61	2.0	0.7	3.60	68.3	6373	0.0778	0.1023	0.070	0.33	418	530

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