



3 CORE ALUMINIUM XLPE ARMOURED POWER CABLES

No. of Cores & Cross sectional area	Min. No. of wires	Thickness of Insulation (Nom.)	Min. Thickness of inner sheath	Nominal Dimension of Armour		Min. Thickness of Outer Sheath		Overall Dimension (Approx.)		Approx. Net Wt. of Cable		Max. DC Resistance at 20°C	Max. A.C Resistance at 90°C	Approx. Reactance at 50 Hz	Approx. Capacita nce	CURRENT RATINGS	
																Direct in Ground	In Air
			mm	Wire mm	Strip mm	Wire Armour mm	Strip Armour mm	Wire Armour mm	Strip Armour mm	Wire Armour (Kg/Km)	Strip Armour (Kg/Km)	Ohms/Km	Ohms/Km	Ohms/Km	mEd/Km	Amps	Amps
3CX25	7	0.9	0.3	1.6	4X0.8	1.4	1.4	21.7	20.1	861	654	1.2	1.54	0.08	0.2	94	96
3CX35	7	0.9	0.3	1.6	4X0.8	1.4	1.4	23.8	22.7	1028	789	0.868	1.11	0.08	0.23	113	117
3CX50	7	1	0.3	1.6	4X0.8	1.56	1.4	26.5	24.6	1252	966	0.641	0.82	0.078	0.24	133	142
3CX70	19	1.1	0.4	2	4X0.8	1.56	1.56	31.3	28.9	1790	1290	0.443	0.567	0.077	0.26	164	179
3CX95	19	1.1	0.4	2	4X0.8	1.56	1.56	33.5	31.1	2091	1575	0.32	0.41	0.074	0.29	196	221
3CX120	19	1.2	0.4	2	4X0.8	1.72	1.56	38.4	35.7	2549	2926	0.253	0.325	0.072	0.29	223	257
3CX150	19	1.4	0.5	2	4X0.8	1.88	1.72	42.0	39.2	3020	2317	0.206	0.265	0.072	0.29	249	292
3CX185	37	1.6	0.5	2.5	4X0.8	2.04	1.88	47.0	43.3	3940	2808	0.164	0.211	0.072	0.29	282	337
3CX240	37	1.7	0.6	2.5	4X0.8	2.2	2.04	50.0	46.3	4616	3453	0.125	0.162	0.072	0.31	326	399
3CX300	37	1.8	0.6	2.5	4X0.8	2.36	2.2	55.3	51.6	5495	4169	0.1	0.13	0.071	0.33	367	455
3CX400	61	2	0.7	3.15	4X0.8	2.68	2.52	63.5	58.4	6354	5267	0.0778	0.1023	0.07	0.33	418	530

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



3 CORE ALUMINIUM XLPE UNARMoured POWER CABLES

No. of Cores & Cross sectional area	Min. No. of wires	Thickness of Insulation (Nom.)	Min. Thickness of inner sheath	Nom. Thickness of Outer Sheath	Overall Dimension (Approx.)	Net Wt. of Cable	Max. DC Resistance at 20°C	Max. A.C Resistance at 90°C	Approx. Reactance at 50 Hz	Approx. Capacitance	CURRENT RATINGS	
											Direct in Ground	In Air
		(mm)	(mm)	(mm)	(mm)	(Kg/Km)	Ohms/Km	Ohms/Km	Ohms/Km	mFd/Km	Amps	Amps
3CX25	7	0.90	0.30	2	20.3	502	1.2000	1.5400	0.080	0.20	94	96
3CX35	7	0.90	0.30	2	22.4	616	0.8680	1.1100	0.080	0.23	113	117
3CX50	7	1.0	0.30	2	25.0	782	0.6410	0.8200	0.078	0.24	133	142
3CX70	19	1.10	0.40	2.2	29.2	1059	0.4430	0.5670	0.077	0.26	164	179
3CX95	19	1.10	0.40	2.2	31.4	1322	0.3200	0.4100	0.074	0.29	196	221
3CX120	19	1.20	0.40	2.2	36.0	1626	0.2530	0.3250	0.072	0.29	223	257
3CX150	19	1.40	0.50	2.4	39.6	1997	0.2060	0.2650	0.072	0.29	249	292
3CX185	37	1.60	0.50	2.6	43.7	2461	0.1640	0.2110	0.072	0.29	282	337
3CX240	37	1.70	0.60	2.8	47.0	3118	0.1250	0.1620	0.072	0.31	326	399
3CX300	37	1.80	0.60	3	52.4	3801	0.1000	0.1300	0.071	0.33	367	455
3CX400	61	2.00	0.70	3.2	59.2	4853	0.0778	0.1023	0.070	0.33	418	530

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