

LT CONTROL CABLE- PVC/XLPE

TECHNICAL DETAILS OF LUMINO 1.1 KV , 1.5SQMM COPPER CONDUCTOR, XLPE INSULATED , ARMoured /UNARMoured CONTROL CABLE

CABLE CODE- 2XY, 2XFY 2XWY

PHYSICAL PARAMETER

No. of Cores	Unarmoured (2XY)							Flat Strip Armoured (2XFY)						Round Wire Armoured (2XWY)					
	Minimum Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. Overall Dia of Cable		Approx. Weight of cable		Dimension of Armour Strip	Minimum Outer Sheath Thickness	Approx. Overall Dia of Cables		Approx. Weight of Cable		Nominal Dia of Armour Wire	Minimum Outer Sheath Tickness	Approx. Overall Dia of Cable		Approx. Weight of Cable		
			Solid Cond.	Std. Cond.	Solid Cond.	Std. Cond.			Solid Cond.	Std. Cond.	Solid Cond.	Std. Cond.			Solid Cond.	Std. Cond.	Solid Cond.	Std. Cond.	
No's	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	mm	Kg/Km	Kg/Km	
2	0.30	1.80	10	10	150	150	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	12	13	320	350	
3	0.30	1.80	11	11	170	200	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	13	13	330	350	
4	0.30	1.80	12	12	200	200	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	14	14	370	400	
5	0.30	1.80	12	13	230	250	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	14	15	420	450	
6	0.30	1.80	13	14	260	300	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	15	16	460	500	
7	0.30	1.80	13	14	250	250	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	15	16	470	500	
10	0.30	1.80	16	16	340	350	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	18	19	640	650	
12	0.30	1.80	17	17	380	400	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.40	19	20	750	800	
14	0.30	1.80	17	18	420	450	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.40	20	21	800	850	
16	0.30	1.80	18	19	470	500	4x0.8	1.40	19	20	660	700	1.60	1.40	21	22	860	900	
19	0.30	1.80	19	20	550	550	4x0.8	1.40	20	21	750	750	1.60	1.40	21	22	940	1000	
24	0.30	2.00	22	23	680	700	4x0.8	1.40	23	24	920	950	1.60	1.40	24	25	1140	1200	
27	0.30	2.00	23	24	730	750	4x0.8	1.40	23	24	970	1000	1.60	1.40	24	25	1210	1300	
30	0.30	2.00	23	25	800	850	4x0.8	1.40	24	25	1030	1100	1.60	1.40	25	27	1290	1350	
37	0.30	2.00	25	26	940	1000	4x0.8	1.40	25	27	1200	1250	1.60	1.40	27	29	1510	1600	
40	0.30	2.00	26	27	1030	1080	4x0.8	1.40	26	28	1310	1380	1.60	1.40	28	29	1590	1680	
44	0.30	2.00	28	30	1130	1170	4x0.8	1.40	28	30	1420	1490	1.60	1.56	31	32	1760	1850	
52	0.30	2.00	29	31	1290	1340	4x0.8	1.56	30	32	1640	1710	1.60	1.56	32	33	1950	2050	
61	0.40	2.20	31	33	1520	1580	4x0.8	1.56	32	34	1860	1940	2.00	1.56	34	36	2410	2520	

ELECTRICAL PARAMETER

Number of Cores	Max. Conductor D.C. Resistance at 20°C	Approx. Conductor A.C. Resistance	Reactance of Cable at 50 Hz (Approx.)	Capacitance of Cable (Approx.)	Normal Current Rating for XLPE Insulation			Short Circuit Current Rating for 1 Second Duration
					Ground	Duct	Air	
No's	Ohm/Km	Ohm/Km	Ohm/Km	µF/Km	Amps	Amps	Amps	Kamps
2	12.10	15.49	0.102	0.09	33	29	29	0.215
3	12.10	15.49	0.102	0.09	25	22	22	0.215
4	12.10	15.49	0.102	0.09	25	22	22	0.215
5	12.10	15.49	0.102	0.09	24	21	21	0.215
6	12.10	15.49	0.102	0.09	22	19	19	0.215
7	12.10	15.49	0.102	0.09	21	18	18	0.215
10	12.10	15.49	0.102	0.09	18	16	16	0.215
12	12.10	15.49	0.102	0.09	17	15	15	0.215
14	12.10	15.49	0.102	0.09	16	14	14	0.215
16	12.10	15.49	0.102	0.09	16	14	14	0.215
19	12.10	15.49	0.102	0.09	15	13	13	0.215
24	12.10	15.49	0.102	0.09	13	12	12	0.215
27	12.10	15.49	0.102	0.09	13	11	11	0.215
30	12.10	15.49	0.102	0.09	12	11	11	0.215
37	12.10	15.49	0.102	0.09	11	10	10	0.215
40	12.10	15.49	0.102	0.09	11	9	9	0.215
44	12.10	15.49	0.102	0.09	11	9	9	0.215
52	12.10	15.49	0.102	0.09	10	9	9	0.215
61	12.10	15.49	0.102	0.09	9	8	8	0.215



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PHYSICAL PARAMETER

No. of Cores	Unarmoured (2XY)							Flat Strip Armoured (2XFY)						Round Wire Armoured (2XWY)					
	Minimum Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. Overall Dia of Cable		Approx. Weight of cable		Dimension of Armour Strip	Minimum Outer Sheath Thickness	Approx. Overall Dia of Cables		Approx. Weight of Cable		Nominal Dia of Armour Wire	Minimum Outer Sheath Thickness	Approx. Overall Dia of Cable		Approx. Weight of Cable		
			Solid Cond.	Std. Cond.	Solid Cond.	Std. Cond.			Solid Cond.	Std. Cond.	Solid Cond.	Std. Cond.			Solid Cond.	Std. Cond.	Solid Cond.	Std. Cond.	Solid Cond.
No's	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	mm	Kg/Km	Kg/Km	
2	0.30	1.80	11	12	180	200	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	13	13	370	400	
3	0.30	1.80	12	12	210	220	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	14	14	390	410	
4	0.30	1.80	13	13	250	270	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	15	15	440	460	
5	0.30	1.80	14	14	300	310	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	15	16	500	520	
6	0.30	1.80	15	15	350	360	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	16	17	560	580	
7	0.30	1.80	15	15	330	340	N/A	N/A	N/A	N/A	N/A	N/A	1.40	1.24	16	17	590	610	
10	0.30	1.80	18	19	450	470	4x0.8	1.24	19	20	650	690	1.60	1.40	20	21	850	880	
12	0.30	1.80	19	20	530	550	4x0.8	1.40	19	20	700	750	1.60	1.40	21	22	920	950	
14	0.30	1.80	20	21	590	610	4x0.8	1.40	20	21	790	830	1.60	1.40	22	23	1000	1030	
16	0.30	2.00	21	22	660	680	4x0.8	1.40	21	22	880	900	1.60	1.40	23	24	1080	1130	
19	0.30	2.00	22	23	750	780	4x0.8	1.40	22	23	970	1010	1.60	1.40	24	25	1200	1260	
24	0.30	2.00	25	26	930	960	4x0.8	1.40	25	27	1190	1240	1.60	1.40	27	29	1480	1540	
27	0.30	2.00	25	27	1020	1050	4x0.8	1.40	26	27	1300	1320	1.60	1.40	28	29	1580	1640	
30	0.30	2.00	26	28	1110	1150	4x0.8	1.40	27	28	1410	1470	1.60	1.40	29	30	1690	1770	
37	0.30	2.00	29	30	1370	1410	4x0.8	1.40	30	31	1690	1720	1.60	1.56	31	32	1980	2050	
40	0.30	2.00	29	31	1450	1500	4x0.8	1.56	31	32	1800	1870	1.60	1.56	32	33	2110	2210	
44	0.40	2.20	32	34	1630	1690	4x0.8	1.56	32	34	1990	2070	2.00	1.56	35	37	2520	2650	
52	0.40	2.20	33	35	1870	1940	4x0.8	1.56	34	36	2250	2340	2.00	1.56	36	38	2810	2920	
61	0.40	2.20	35	37	2150	2220	4x0.8	1.56	36	38	3160	2640	2.00	1.56	38	40	3160	3280	

ELECTRICAL PARAMETER

Number of Cores	Max. Conductor D.C. Resistance at 20°C	Approx. Conductor A.C. Resistance	Reactance of Cable at 50 Hz (Approx.)	Capacitance of Cable (Approx.)	Normal Current Rating for XLPE Insulation			Short Circuit Current Rating for 1 Second Duration
					Ground	Duct	Air	
No's	Ohm/Km	Ohm/Km	Ohm/Km	µF/Km	Amps	Amps	Amps	K.amps
2	7.41	9.48	0.100	0.10	39	32	32	0.358
3	7.41	9.48	0.100	0.10	34	30	30	0.358
4	7.41	9.48	0.100	0.10	34	30	30	0.358
5	7.41	9.48	0.100	0.10	31	28	28	0.358
6	7.41	9.48	0.100	0.10	29	26	26	0.358
7	7.41	9.48	0.100	0.10	27	25	25	0.358
10	7.41	9.48	0.100	0.10	24	21	21	0.358
12	7.41	9.48	0.100	0.10	22	20	20	0.358
14	7.41	9.48	0.100	0.10	21	19	19	0.358
16	7.41	9.48	0.100	0.10	20	18	18	0.358
19	7.41	9.48	0.100	0.10	19	17	17	0.358
24	7.41	9.48	0.100	0.10	17	16	16	0.358
27	7.41	9.48	0.100	0.10	16	16	16	0.358
30	7.41	9.48	0.100	0.10	16	14	14	0.358
37	7.41	9.48	0.100	0.10	15	13	13	0.358
40	7.41	9.48	0.100	0.10	14	13	13	0.358
44	7.41	9.48	0.100	0.10	14	13	13	0.358
52	7.41	9.48	0.100	0.10	13	12	12	0.358
61	7.41	9.48	0.100	0.10	12	11	11	0.358