



LT PVC
INSULATED POWER
CABLES

LT PVC Power Cables

TABLE 5.11

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
1 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Flat Strip Armoured (AYFaY / YFaY)					Round Wire Armoured (AYWaY / YWaY)				
				Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable		Nominal Dia of Armor Wire	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable	
	With Al'm Cond.	With Cu Cond.					With Al'm Cond.	With Cu Cond.					
	AYFaY	YFaY					AYWaY	YWaY					
sqmm	No's	No's	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	11	180	200
6	1/3	1/3	1.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	12	200	230
10	1/7	6	1.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	13	230	300
16	6	6	1.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	13	250	350
25	6	6	1.50	N/A	N/A	N/A	N/A	N/A	1.40	1.24	15	300	450
35	6	6	1.50	N/A	N/A	N/A	N/A	N/A	1.40	1.24	16	350	560
50	6	6	1.70	N/A	N/A	N/A	N/A	N/A	1.40	1.24	17	450	700
70	12	12	1.70	N/A	N/A	N/A	N/A	N/A	1.40	1.40	19	550	950
95	15	15	1.90	4 X 0.80	1.40	21	650	1200	1.60	1.40	22	700	1250
120	15	18	1.90	4 X 0.80	1.40	22	750	1450	1.60	1.40	24	800	1500
150	15	18	2.10	4 X 0.80	1.40	24	850	1750	1.60	1.40	25	950	1800
185	30	30	2.30	4 X 0.80	1.40	26	1000	2100	1.60	1.40	27	1100	2200
240	30	34	2.50	4 X 0.80	1.40	29	1250	2700	1.60	1.56	30	1400	2800
300	30	34	2.70	4 X 0.80	1.56	32	1550	3350	1.60	1.56	33	1600	3400
400	53	53	3.00	4 X 0.80	1.56	36	1900	4200	2.00	1.56	38	2100	4400
500	53	53	3.40	4 X 0.80	.56	40	2350	5300	2.00	1.72	42	2600	5600
630	53	53	3.90	4 X 0.80	1.72	45	3000	6800	2.00	1.88	47	3250	7050

TABLE 5.12

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
1 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED UN-ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Nominal Outer sheath	Approx. Overall Dia of Cable	Approx. Weight of Cable	
						With Al'm Cond.	With Cu Cond.
	Aluminium	Copper				AYY	YY
sqmm	No's	No's	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.0	1.8	8.0	102	112
6	1/3	1/3	1.0	1.8	9.0	107	127
10	1/7	1/3	1.0	1.8	10.0	118	175
16	6	6	1.0	1.8	11.5	145	239
25	6	6	1.0	1.8	13.0	147	348
35	6	6	1.2	1.8	13.5	225	445
50	6	6	1.2	1.8	15.2	272	579
70	12	12	1.4	1.8	17.2	365	785
95	15	15	1.4	2.0	20.0	445	1072
120	15	18	1.6	2.0	22.0	545	1310
150	15	18	1.6	2.0	22.5	655	1570
185	30	34	1.8	2.0	24.6	790	1935
240	30	34	2.0	2.0	27.0	990	2490
300	30	34	2.2	2.2	29.7	1190	2890
400	53	53	3.0	2.2	34.0	1480	3650
500	53	53	3.4	2.2	40.0	1870	4620
630	53	53	3.9	2.4	42.0	2190	5950



The above data is approximate and subject to manufacturing tolerance

LT PVC Power Cables

TABLE 5.13

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
2 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)				
					Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable		Nominal Dia of Armor Wire	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable	
	With Al'm Cond.	With Cu Cond.						With Al'm Cond.	With Cu Cond.					
	AYFY	YFY						AYWY	YWY					
sqmm	No's	No's	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	17	500	560
6	1/3	1/3	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	18	580	650
10	1/7	6	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	19	700	800
16	6	6	1.00	0.30	4 X 0.80	1.40	19	550	720	1.60	1.40	19	700	900
25	6	6	1.20	0.30	4 X 0.80	1.40	20	680	950	1.60	1.40	21	900	1200
35	6	6	1.20	0.30	4 X 0.80	1.40	21	780	1200	1.60	1.40	23	1000	1400
50	6	6	1.40	0.30	4 X 0.80	1.40	24	950	1500	1.60	1.56	26	1250	1800
70	12	12	1.40	0.30	4 X 0.80	1.56	27	1150	1950	2.00	1.56	28	1450	2250
95	15	15	1.60	0.40	4 X 0.80	1.56	30	1450	2600	2.00	1.56	32	1950	3100
120	15	18	1.60	0.40	4 X 0.80	1.56	32	1700	3100	2.00	1.72	35	2250	3650
150	15	18	1.80	0.40	4 X 0.80	1.72	35	1950	3700	2.50	1.72	37	2550	4300
185	30	30	2.00	0.50	4 X 0.80	1.88	38	2350	4550	2.50	1.88	40	3000	5200
240	30	34	2.20	0.50	4 X 0.80	2.04	43	2900	5800	2.50	2.04	46	4000	6850
300	30	34	2.40	0.60	4 X 0.80	2.20	46	3500	7100	3.15	2.20	50	4650	8250
400	53	53	2.60	0.70	4 X 0.80	2.36	52	4300	8900	3.15	2.52	57	6150	10800

TABLE 5.14

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
2 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED UN-ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Nominal Outer sheath	Approx. Overall Dia of Cable	Approx. Weight of Cable	
						With Al'm Cond. AYY	With Cu Cond. YY
	sqmm	No's				No's	mm
4	1/3	1/3	1.0	1.80	10.50	192	302
6	1/3	1/3	1.0	1.80	11.50	200	315
10	1/7	1/3	1.0	1.80	14.50	210	330
16	6	6	1.0	1.80	16.00	235	418
25	6	6	1.0	1.80	17.00	335	635
35	6	6	1.2	1.80	18.00	410	819
50	6	6	1.2	2.00	21.00	535	1100
70	12	12	1.4	2.00	23.00	690	1503
95	15	15	1.4	2.00	26.00	910	2040
120	15	18	1.6	2.00	28.00	1080	2510
150	15	18	1.6	2.20	31.50	1320	3100
185	30	34	1.8	2.20	35.00	1620	3830
240	30	34	2.0	2.20	39.00	2040	4960
300	30	34	2.2	2.40	43.00	2530	6180
400	53	53	2.4	2.40	44.50	2860	7640

The above data is approximate and subject to manufacturing tolerance



LT PVC Power Cables

TABLE 5.15

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
3 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)				
					Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable		Nominal Dia of Armor Wire	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable	
	With Al'm Cond.	With Cu Cond.						With Al'm Cond.	With Cu Cond.					
	Aluminium	Copper			AYFY	YFY	AYWY	YWY						
sqmm	No's	No's	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	17	600	580
6	1/3	1/3	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	18	620	700
10	1/3	6	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.40	21	700	880
16	6	6	1.00	0.30	4 X 0.80	1.40	20	650	950	1.60	1.40	22	900	1150
25	6	6	1.20	0.30	4 X 0.80	1.40	22	850	1300	1.60	1.40	24	1100	1550
35	6	6	1.20	0.30	4 X 0.80	1.40	24	980	1600	1.60	1.40	26	1250	1850
50	6	6	1.40	0.30	4 X 0.80	1.56	27	1250	2100	1.60	1.56	29	1550	2400
70	12	12	1.40	0.40	4 X 0.80	1.56	31	1550	2750	2.00	1.56	33	2050	3250
95	15	15	1.60	0.40	4 X 0.80	1.56	34	1900	3600	2.00	1.72	37	2550	4200
120	15	18	1.60	0.40	4 X 0.80	1.72	37	2250	4400	2.00	1.72	40	2850	5000
150	15	18	1.80	0.50	4 X 0.80	1.88	41	2700	5350	2.00	1.88	43	3400	6000
185	30	30	2.00	0.50	4 X 0.80	1.88	45	3200	6500	2.50	2.04	48	4400	7700
240	30	34	2.20	0.60	4 X 0.80	2.20	51	4050	8400	2.50	2.20	54	5300	9600
300	30	34	2.40	0.60	4 X 0.80	2.36	56	4900	10300	2.50	2.36	59	6250	11700
400	53	53	2.60	0.70	4 X 0.80	2.52	63	6000	13000	3.15	2.68	67	8300	15200

TABLE 5.16

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
3 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED UN-ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Nominal Outer sheath	Approx. Overall Dia of Cable	Approx. Weight of Cable	
	Aluminium	Copper				With Al'm Cond. AYY	With Cu Cond. YY
sqmm	No's	No's	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.0	1.80	11.50	250	352
6	1/3	1/3	1.0	1.80	13.0	270	370
10	1/7	6	1.0	1.80	16.0	300	520
16	6	6	1.0	1.80	18.0	337	619
25	6	6	1.0	2.00	20.0	500	946
35	6	6	1.2	2.00	22.0	620	1233
50	6	6	1.2	2.00	24.0	790	1632
70	12	12	1.4	2.20	27.0	1030	2235
95	15	15	1.4	2.20	32.0	1380	3065
120	15	18	1.6	2.20	34.0	1650	3765
150	15	18	1.6	2.40	37.0	1980	4620
185	30	34	1.8	2.40	42.0	2475	5760
240	30	34	2.0	2.40	46.0	2970	7200
300	30	34	2.2	2.60	52.0	3825	9265



The above data is approximate and subject to manufacturing tolerance

LT PVC Power Cables

TABLE 5.17

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
3.5 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)					
					Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable		Nominal Dia of Armor Wire	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable		
	With Al'm Cond. A2XFY	With Cu Cond. 2XFY						With Al'm Cond. AYWY	With Cu Cond. YWY						
	Aluminium	Copper			mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km
sqmm	No's	No's	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
3x25+16	6/6	6/6	1.20/1.00	0.30	4 X 0.80	1.40	24	1000	1500	1.60	1.40	25	1200	1750	
3x35+16	6/6	6/6	1.20/1.00	0.30	4 X 0.80	1.40	26	1100	1850	1.60	1.40	28	1400	2100	
3x50+25	6/6	6/6	1.40/1.20	0.30	4 X 0.80	1.56	29	1400	2400	2.00	1.56	32	1900	2900	
3x70+35	12/6	12/6	1.40/1.20	0.40	4 X 0.80	1.56	33	1750	3150	2.00	1.56	35	2300	3700	
3x92+50	15/6	15/6	1.60/1.40	0.40	4 X 0.80	1.56	37	2200	4150	2.00	1.72	40	2850	4850	
3x120+70	15/12	18/12	1.60/1.40	0.50	4 X 0.80	1.72	41	2650	5150	2.00	1.88	43	3350	5900	
3x150+70	15/12	18/12	1.80/1.40	0.50	4 X 0.80	1.88	44	3050	6100	2.00	1.88	47	3800	6850	
3x185+95	30/15	30/15	2.00/1.60	0.50	4 X 0.80	2.04	49	3700	7600	2.50	2.04	52	4950	8800	
3x240+120	30/15	34/18	2.20/1.60	0.60	4 X 0.80	2.20	55	4650	9650	2.50	2.36	59	6050	11100	
3x300+150	30/15	34/18	2.40/1.80	0.60	4 X 0.80	2.36	61	5550	11900	3.15	2.52	66	7800	14150	
3x400+185	53/30	53/30	2.60/2.00	0.70	4 X 0.80	2.68	69	6950	15100	3.15	2.68	73	9400	17500	

TABLE 5.18

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
3.5 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED UN-ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Minimum Inner Sheath Thickness	Minimum Outer Sheath Thickness	Approx. Overall Dia of Cable	Approx. Weight of Cable	
							With Al'm Cond. AYY	With Cu Cond. YY
	Aluminium	Copper					mm	mm
sqmm	No's	No's	mm	mm	mm	mm	Kg/Km	Kg/Km
3X25+16	6/6	6/6	1.20/1.00	0.30	2.00	23	750	1250
3X35+16	6/6	6/6	1.20/1.00	0.30	2.00	26	850	1600
3X50+25	6/6	6/6	1.40/1.20	0.30	2.20	28	1100	2100
3X70+35	12/6	12/6	1.40/1.20	0.40	2.20	32	1400	2850
3X95+50	15/6	15/6	1.60/1.40	0.40	2.20	37	1800	3800
3X120+70	15/12	18/12	1.60/1.40	0.50	2.40	40	2250	4750
3X150+70	12/12	18/12	1.80/1.40	0.50	2.40	44	2600	5650
3X185+95	30/15	30/15	2.00/1.60	0.50	2.40	48	3200	7050
3X240+120	30/15	34/18	2.20/1.60	0.60	3.00	55	4100	9150
3X300+150	30/15	34/18	2.40/1.80	0.60	3.20	60	5000	11300
3X400+185	53/30	53/30	2.60/2.00	0.70	3.40	68	6250	14300



The above data is approximate and subject to manufacturing tolerance

LT PVC Power Cables

TABLE 5.19

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
4 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)				
					Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable		Nominal Dia of Armor Wire	Minimum Outer Sheath Thickness	Approx. overall Dia of Cable	Approx. Weight of Cable	
	With Al'm Cond.	With Cu Cond.						With Al'm Cond.	With Cu Cond.					
	Aluminium	Copper			AYFY	YFY	AYWY	YWY						
sqmm	No's	No's	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	18	650	680
6	1/3	1/3	1.00	0.30	N/A	N/A	N/A	N/A	N/A	1.40	1.24	20	660	800
10	1/7	6	1.00	0.30	4 X 0.80	1.40	21	700	900	1.60	1.40	22	880	1150
16	6	6	1.00	0.30	4 X 0.80	1.40	22	800	1200	1.60	1.40	23	1000	1400
25	6	6	1.20	0.30	4 X 0.80	1.40	25	1000	1600	1.60	1.40	26	1250	1850
35	6	6	1.20	0.30	4 X 0.80	1.40	27	1200	2050	1.60	1.56	29	1500	2350
50	12	6	1.40	0.40	4 X 0.80	1.56	30	1500	2650	2.00	1.56	33	2050	3150
70	15	12	1.40	0.40	4 X 0.80	1.56	34	1900	3500	2.00	1.56	36	2450	4050
95	15	15	1.60	0.40	4 X 0.80	1.72	39	2450	4700	2.00	1.72	41	3050	5300
120	15	18	1.60	0.50	4 X 0.80	1.88	42	2850	5700	2.00	1.88	44	3550	6400
150	30	18	1.80	0.50	4 X 0.80	1.88	46	3350	6900	2.50	2.04	50	4550	8050
185	30	30	2.00	0.60	4 X 0.80	2.04	51	4100	8500	2.50	2.20	54	5400	9800
240	30	34	2.20	0.60	4 X 0.80	2.36	57	5100	10900	2.50	2.36	61	6600	12400
300	53	34	2.40	0.70	4 X 0.80	2.52	64	6250	13500	3.15	2.68	68	8500	15800
400	53	53	2.60	0.70	4 X 0.80	2.84	72	7800	17000	3.15	2.84	76	10300	19600

TABLE 5.20

**TECHNICAL DETAILS FOR ZENIUM 1.1 KV
4 CORE, ALUMINIUM / COPPER CONDUCTOR, PVC INSULATED UN-ARMoured CABLES**

Size (Cross sectional Area)	Minimum No. of Strand in Conductor		Nominal Insulation Thickness	Minimum Inner Sheath Thickness	Minimum Outer Sheath Thickness	Approx. Overall Dia of Cable	Approx. Weight of Cable	
							With Al'm Cond.	With Cu Cond.
	Aluminium	Copper					AYY	YY
sqmm	No's	No's	mm	mm	mm	mm	Kg/Km	Kg/Km
4	1/3	1/3	1.00	0.30	1.80	16	300	430
6	1/3	1/3	1.00	0.30	1.80	18	400	540
10	1/7	6	1.00	0.30	1.80	20	500	750
16	6	6	1.00	0.30	2.00	21	580	950
25	6	6	1.20	0.30	2.00	24	800	1400
35	6	6	1.20	0.30	2.00	26	920	1750
50	6	6	1.40	0.40	2.20	30	1250	2350
70	12	12	1.40	0.40	2.20	33	1550	3150
95	15	15	1.60	0.40	2.40	38	2050	4300
120	15	18	1.60	0.50	2.40	41	2400	5250
150	15	18	1.80	0.50	2.60	45	2950	6450
185	30	30	2.00	0.60	2.80	50	3600	8000
240	30	34	2.20	0.60	3.00	57	4600	10350
300	30	34	2.40	0.70	3.40	63	5700	12900
400	53	53	2.60	0.70	3.60	71	7100	16300

The above data is approximate and subject to manufacturing tolerance