

Table 1
Physical Parameters
 Relemac Copper Conductor 2.5 sq.mm, PVC Insulated Unarmoured/ Armoured PVC Sheathed Control Cables

No of Cores	Thick of Insl	Thick of I/sheath	Dimension of Armour		Thick of O/sheath				Overall Diameter			Approx Mass/ Km		
			Wire	Strip	Unarmd		Armd		Unarmd	Armd		Unarmd	Armd	
					Nom	Min	Wire	Strip		Wire	Strip		Wire	Strip
No	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	Kg/ Km		
2	0.90	0.30	1.40	-	1.80	1.24	1.24	-	13	14	-	210	410	-
3	0.90	0.30	1.40	-	1.80	1.24	1.24	-	13	15	-	250	430	-
4	0.90	0.30	1.40	-	1.80	1.24	1.24	-	14	16	-	300	500	-
5	0.90	0.30	1.40	-	1.80	1.24	1.24	-	15	17	-	360	570	-
6	0.90	0.30	1.40	-	1.80	1.24	1.24	-	16	18	-	390	630	-
7	0.90	0.30	1.40	-	1.80	1.24	1.24	-	16	18	-	400	670	-
10	0.90	0.30	1.60	4 x .8	1.80	1.24	1.40	1.40	20	23	21	530	960	750
12	0.90	0.30	1.60	4 x .8	2.00	1.40	1.40	1.40	21	24	22	620	1040	820
14	0.90	0.30	1.60	4 x .8	2.00	1.40	1.40	1.40	22	24	23	700	1150	920
16	0.90	0.30	1.60	4 x .8	2.00	1.40	1.40	1.40	23	26	24	780	1240	1020
19	0.90	0.30	1.60	4 x .8	2.00	1.40	1.40	1.40	25	27	25	890	1390	1130
24	0.90	0.30	1.60	4 x .8	2.00	1.40	1.56	1.40	29	31	29	1110	1720	1400
27	0.90	0.30	1.60	4 x .8	2.00	1.40	1.56	1.40	29	32	30	1210	1840	1510
30	0.90	0.30	1.60	4 x .8	2.00	1.40	1.56	1.56	30	33	31	1320	1980	1670
37	0.90	0.40	2.00	4 x .8	2.20	1.56	1.56	1.56	33	36	34	1630	2520	1960
40	0.90	0.40	2.00	4 x .8	2.20	1.56	1.56	1.56	34	37	35	1730	2620	2080
44	0.90	0.40	2.00	4 x .8	2.20	1.56	1.56	1.56	37	40	37	1900	2900	2300
52	0.90	0.40	2.00	4 x .8	2.20	1.56	1.72	1.56	38	42	39	2190	3260	2600
61	0.90	0.40	2.00	4 x .8	2.20	1.56	1.72	1.56	41	44	41	2520	3640	2950

Table 2
Electrical Parameters for Relemac 2.5 sq.mm. Cooper Conductor PVC Insulated & PVC Sheathed Cables

No of Cores	Max. D. C. Resistance at 20 Deg C	Approx A. C. Resistance		Reactance of Cable at 50 Hz	Capacitance of Cable	Current Rating						Short Circuit Rating for 1 second duration	
		At 70 Deg C	At 85 Deg C			General Purpose Insulation			Heat Resisting Insulation			General Purpose Insulation	Heat Resisting Insulation
						Ground	Duct	Air	Ground	Duct	Air		
No	Ohm/Km	Ohm/Km		Ohm/Km	μF/Km	A	A	A	A	A	A	kA	kA
2	7.41	8.89	9.34	0.107	0.22	32	27	27	38	32	32	0.288	0.260
3	7.41	8.89	9.34	0.107	0.22	27	24	24	30	28	28	0.288	0.260
4	7.41	8.89	9.34	0.107	0.22	27	24	24	30	28	28	0.288	0.260
5	7.41	8.89	9.34	0.107	0.22	27	24	24	30	28	28	0.288	0.260
6	7.41	8.89	9.34	0.107	0.22	21	18	18	24	21	21	0.288	0.260
7	7.41	8.89	9.34	0.107	0.22	20	17	17	22	20	20	0.288	0.260
10	7.41	8.89	9.34	0.107	0.22	18	15	15	20	16	16	0.288	0.260
12	7.41	8.89	9.34	0.107	0.22	17	14	14	19	16	16	0.288	0.260
14	7.41	8.89	9.34	0.107	0.22	16	13	13	18	15	15	0.288	0.260
16	7.41	8.89	9.34	0.107	0.22	15	13	13	17	15	15	0.288	0.260
19	7.41	8.89	9.34	0.107	0.22	14	12	12	16	14	14	0.288	0.260
24	7.41	8.89	9.34	0.107	0.22	13	11	11	14	13	13	0.288	0.260
27	7.41	8.89	9.34	0.107	0.22	12	10	10	13	12	12	0.288	0.260
30	7.41	8.89	9.34	0.107	0.22	12	10	10	13	12	12	0.288	0.260
37	7.41	8.89	9.34	0.107	0.22	11	9	9	12	10	10	0.288	0.260
40	7.41	8.89	9.34	0.107	0.22	11	9	9	12	10	10	0.288	0.260
44	7.41	8.89	9.34	0.107	0.22	10	9	9	11	10	10	0.288	0.260
52	7.41	8.89	9.34	0.107	0.22	9	8	8	10	10	10	0.288	0.260
61	7.41	8.89	9.34	0.107	0.22	8	8	8	9	9	9	0.288	0.260