

Table 1
Physical Parameters
 Relemac Aluminium/ Copper Conductor, PVC Insulated Unarmoured/ Armoured PVC Sheathed Two Core Cables

Nom Area	No of Wires		Nom. Thick of Insl	Thick of I/Sheath	Dimension of Armour		Thickness of Outer Sheath				Overall Diameter			Approximate Mass of Cable/Km					
							Unarmd		Armd		Unarmd	Armd		Unarmd		Armd			
	Nom	Min	Wire	Strip	Wire	Strip	Al	Cu	Wire			Strip							
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4	1/7	1/7	1.00	0.30	1.40	-	1.80	1.24	1.24	-	13	15	-	230	280	460	520	-	-
6	1/7	1/7	1.00	0.30	1.40	-	1.80	1.24	1.24	-	15	16	-	270	350	530	620	-	-
10	1/7	7	1.00	0.30	1.40	-	1.80	1.24	1.24	-	16	18	-	330	480	620	780	-	-
16	7	7	1.00	0.30	1.60	4 x .8	1.80	1.24	1.40	1.40	16	18	17	350	500	700	850	500	700
25	7	7	1.20	0.30	1.60	4 x .8	2.00	1.40	1.40	1.40	19	21	19	450	750	850	1150	600	950
35	7	7	1.20	0.30	1.60	4 x .8	2.00	1.40	1.40	1.40	20	21	21	550	900	950	1350	750	1150
50	7	7	1.40	0.30	1.60	4 x .8	2.00	1.40	1.56	1.40	23	25	23	700	1250	1200	1750	900	1450
70	19	19	1.40	0.30	1.60	4 x .8	2.00	1.40	1.56	1.56	25	27	26	850	1650	1400	2200	1100	1900
95	19	19	1.60	0.40	2.00	4 x .8	2.20	1.56	1.56	1.56	29	32	29	1150	2250	1900	3000	1400	2500
120	19	19	1.60	0.40	2.00	4 x .8	2.20	1.56	1.72	1.56	31	34	31	1300	2700	2150	3550	1600	3000
150	19	19	1.80	0.40	2.00	4 x .8	2.40	1.72	1.72	1.72	33	36	34	1600	3300	2500	4200	1900	3650
185	37	37	2.00	0.50	2.00	4 x .8	2.40	1.72	1.88	1.88	36	40	37	1900	4100	2900	5100	2300	4450
240	37	37	2.20	0.50	2.50	4 x .8	2.60	1.88	2.04	2.04	42	46	42	2450	5250	3850	6700	2850	5700
300	37	37	2.40	0.60	2.50	4 x .8	2.80	2.04	2.20	2.20	45	49	46	2950	6500	4550	8100	3400	6950
400	61	61	2.60	0.70	3.15	4 x .8	3.20	2.36	2.52	2.36	51	56	51	3800	8300	6050	10600	4200	8750
500	61	61	2.80	0.70	3.15	4 x .8	3.40	2.52	2.84	2.68	57	62	57	4750	10550	7350	13150	5250	11050
630	91	91	3.40	0.70	4.00	4 x .8	3.80	2.84	3.00	2.84	64	70	64	6000	13500	9750	17250	6550	14050

Table 2
Electrical Parameters for Relemac Two Core PVC Insulated & PVC Sheathed Cables

Nom Area of Cond	Maximum D. C. Resistance at 20 Deg C		Approx A. C. Resistance at 70 Deg C		Reactance	Capacitance	Nominal Current Rating						Short Circuit Rating for 1 sec	
	Alum	Copper	Alum	Copper	At 50 Hz	of the Cable	Aluminium			Copper			Al	Cu
							Ground	Duct	Air	Ground	Duct	Air		
mm ²	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	μF/Km	A	A	A	A	A	A	kA	
4	7.41	4.61	8.89	5.53	0.098	0.23	32	27	27	41	35	35	0.304	0.460
6	4.61	3.08	5.53	3.70	0.096	0.28	40	34	35	50	44	45	0.456	0.690
10	3.08	1.83	3.70	2.20	0.091	0.34	55	45	47	70	58	60	0.760	1.15
16	1.91	1.15	2.29	1.38	0.085	0.40	70	58	59	90	75	78	1.22	1.84
25	1.20	0.727	1.44	0.870	0.083	0.42	90	76	78	115	97	105	1.90	2.88
35	0.868	0.524	1.04	0.630	0.082	0.48	110	92	99	140	120	125	2.66	4.03
50	0.641	0.387	0.769	0.464	0.082	0.49	135	115	125	165	145	155	3.80	5.75
70	0.443	0.268	0.532	0.322	0.076	0.56	160	140	150	205	180	195	5.32	8.05
95	0.320	0.193	0.384	0.232	0.076	0.58	190	170	185	240	215	230	7.22	10.90
120	0.253	0.153	0.304	0.184	0.075	0.63	210	190	210	275	235	265	9.12	13.80
150	0.206	0.124	0.247	0.149	0.074	0.63	240	210	240	310	270	305	11.40	17.30
185	0.164	0.0991	0.197	0.119	0.074	0.64	275	240	275	350	300	350	14.10	21.30
240	0.125	0.0754	0.151	0.0912	0.073	0.67	320	275	325	405	345	410	18.20	27.30
300	0.100	0.0601	0.122	0.0733	0.073	0.68	295	355	305	365	450	385	465	34.50
400	0.0778	0.0470	0.0961	0.0580	0.072	0.70	385	345	420	490	485	530	30.40	46.00
500	0.0605	0.0366	0.0759	0.0459	0.072	0.70	425	380	475	540	460	605	38.00	57.50
630	0.0469	0.0283	0.0610	0.0368	0.072	0.70	465	415	540	640	550	785	47.90	72.50