

U_o/U(U_m)=6/10(12)KV-SINGLE-CORE CABLE- ARMoured (ATA)

COPPER CONDUCTORS/ 3.4mm XLPE INSULATION THICKNESS / PVC SHEATHED-90°C

Nominal cross-sectional area	Overall diameter Φ approx	Net weight approx	Max resistance		Current carrying capacity				short circuit current of conductor for 1 sec.	Capacitance	Inductance		Voltage drop at 50 HZ cos. ϕ 0.8	
			DC at 20°C	AC at 90°C	Ground at 35°C		Air at 40°C				trefoil	flat	trefoil	flat
mm ²	mm	kg/km	Ω /KM	Ω /KM	Amp	Amp	Amp	Amp	ka/km	μ f/km	mh/km	mh/km	V/A/km	V/A/km
1x16	23.2	799	1.150	1.470	110	115	115	125	2.29	0.177	0.446	0.492	1.988	2.011
1x25	24.4	933	0.727	0.927	135	140	140	165	3.58	0.200	0.421	0.468	1.324	1.347
1x35	25.3	1057	0.524	0.668	160	175	170	205	5.01	0.219	0.404	0.450	1.005	1.028
1x50	26.7	1227	0.387	0.494	190	200	205	315	7.15	0.244	0.387	0.433	0.787	0.810
1x70	28.5	1518	0.268	0.342	235	245	260	315	10.01	0.277	0.368	0.414	0.595	0.619
1x95	30.5	1812	0.193	0.247	280	295	315	380	13.59	0.311	0.353	0.399	0.474	0.497
1x120	31.7	2088	0.153	0.196	320	335	355	430	17.16	0.334	0.344	0.390	0.408	0.431
1x150	33.6	2453	0.124	0.159	360	365	410	405	21.45	0.359	0.338	0.384	0.360	0.384
1x185	35.4	2830	0.0991	0.1275	400	415	465	565	26.46	0.391	0.328	0.374	0.318	0.341
1x240	38.1	3485	0.0754	0.0975	465	475	555	660	34.32	0.438	0.316	0.362	0.276	0.299
1x300	40.7	4137	0.0601	0.0800	525	535	640	750	42.90	0.486	0.306	0.352	0.250	0.273
1x400	43.4	5064	0.0470	0.0630	590	580	730	835	57.20	0.537	0.298	0.344	0.225	0.248
1x500	48.1	6336	0.0366	0.0520	665	645	845	955	71.50	0.608	0.289	0.335	0.208	0.231
1x630	51.3	7681	0.0283	0.0415	735	710	960	1080	90.09	0.665	0.282	0.328	0.192	0.215
1x800	56.6	9528	0.0221	0.0325	855	955	1130	1455	114.40	0.750	0.275	0.321	0.177	0.201
1x1000	66.7	11900	0.0176	0.0235	1060	1165	1480	1825	143.00	0.929	0.262	0.308	0.160	0.183

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ALUMINIUM CONDUCTORS/ 3.4mm XLPE INSULATION THICKNESS / PVC SHEATHED-90°C

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			DC at 20°C	AC at 90°C	Ground at 35°C		Air at 40°C				trefoil	flat	trefoil	flat
mm ²	mm	kg/km	Ω /KM	Ω /KM	Amp	Amp	Amp	Amp	ka/km	μ f/km	mh/km	mh/km	V/A/km	V/A/km
1x16	23.2	703	1.910	2.450	85	95	85	100	1.47	0.177	0.446	0.492	3.164	3.187
1x25	24.4	779	1.200	1.539	105	110	110	110	2.30	0.200	0.421	0.468	2.059	2.082
1x35	25.3	845	0.868	1.113	130	130	130	155	3.22	0.219	0.404	0.450	1.539	1.562
1x50	26.7	942	0.641	0.822	155	155	165	190	4.60	0.244	0.387	0.433	1.181	1.204
1x70	28.5	1081	0.443	0.569	185	190	200	235	6.44	0.277	0.368	0.414	0.867	0.890
1x95	30.5	1239	0.320	0.411	215	225	240	295	8.74	0.311	0.353	0.399	0.670	0.693
1x120	31.7	1378	0.253	0.325	250	260	280	340	11.04	0.334	0.344	0.390	0.562	0.585
1x150	33.6	1548	0.206	0.265	275	285	320	385	13.80	0.359	0.338	0.384	0.488	0.511
1x185	35.4	1719	0.1640	0.2110	315	325	365	440	17.02	0.391	0.328	0.374	0.417	0.441
1x240	38.1	2008	0.1250	0.1620	365	375	430	530	22.08	0.438	0.316	0.362	0.353	0.376
1x300	40.7	2301	0.1000	0.1300	410	420	490	600	27.60	0.486	0.306	0.352	0.310	0.333
1x400	43.4	2664	0.0778	0.1000	465	475	580	685	36.80	0.533	0.298	0.344	0.269	0.292
1x500	48.1	3226	0.0605	0.0800	530	540	675	815	46.00	0.608	0.289	0.335	0.241	0.264
1x630	51.3	3790	0.0469	0.0621	605	610	785	905	57.96	0.665	0.282	0.328	0.216	0.239
1x800	56.6	4520	0.0367	0.0495	695	770	930	1155	73.60	0.750	0.275	0.321	0.198	0.221
1x1000	66.7	5718	0.0291	0.0376	845	915	1175	1430	92.00	0.929	0.262	0.308	0.177	0.200