

Single Core 8.7/15KV (Um=17.5KV) Dimensional Data

Nom. Cross-Section Area	Outer- \varnothing ca.mm	Cable Weight Approx	AWG
n×mm ²	± 10%	kg/km	no.*)
1×16	23	650	6
1×25	24.3	750	4
1×35	25.3	850	2
1×50	26.3	1000	1
1×70	28.3	1220	2/0
1×95	30.3	1500	3/0
1×120	31.9	1900	4/0
1×150	33.3	2100	250 MCM
1×185	35.3	2500	350 MCM
1×240	38.3	3030	450 MCM
1×300	40.3	3800	550 MCM
1×400	43.3	4600	750 MCM
1×500	47.3	5700	900 MCM
1×630	52.3	7100	1150 MCM

Electrical Data

Nom. Cross-Section Area	D C Resistance CU	A C Resistance CU	Short Circuit Rating of Conductor CU 1 sec	Capacitance	Charging Current	Reactance		Inductance		Impedance	
						Trefoil	Flat Spaced	Trefoil	Flat Spaced	Trefoil	Flat Spaced
						μΩ/m		nH/m		μΩ/ m	
mm ²	μΩ/m	μΩm	kA	pF/m	mA/m						
25	727	927	3.6	222	0.32	131	185	345	535	936	952
35	524	668	5.0	251	0.35	122	178	327	524	679	695
50	387	494	6.8	281	0.39	116	172	313	514	511	527
70	268	343	9.8	341	0.45	110	165	300	495	364	386
95	193	248	13.3	397	0.50	104	160	287	485	272	300
120	153	196	17.2	430	0.55	104	159	283	480	225	257
150	124	159	21.2	464	0.59	100	156	280	475	193	229
185	99	128	26.6	513	0.65	98	154	274	465	165	206
240	75	98	34.9	573	0.70	94	150	267	459	140	185
300	60	80	43.8	652	0.72	91	147	260	455	128	174
400	47	64	57.3	727	0.75	90	147	253	445	113	164
500	37	51	72.3	754	0.79	89	145	248	435	105	158
630	28	42	91.2	786	0.87	86	143	245	425	97	151



Caledonian Medium Voltage Cables

Single Core 12/20KV (Um=24KV)

Dimensional Data

Nom. Cross-Section Area	Outer-Ø ca.mm	Cable Weight Approx	AWG
n×mm ²	± 10%	kg/km	no. *)
1×35	27.3	960	2
1×50	28.5	1100	1
1×70	30.4	1350	2/0
1×95	32.4	1650	3/0
1×120	33.9	1950	4/0
1×150	35.2	2300	250 MCM
1×185	37	2600	350 MCM
1×240	39.5	3200	450 MCM
1×300	42	3900	550 MCM
1×400	45.3	4800	750 MCM
1×500	49	5900	900 MCM
1×630	53.7	7300	1150 MCM

Electrical Data

Nom. Cross-Section Area	DC Resistance CU	AC Resistance CU	Short Circuit Rating of Conductor CU 1 sec	Capacitance	Charging Current	Reactance		Inductance		Impedance	
						Trefoil	Flat Spaced	Trefoil	Flat Spaced	Trefoil	Flat Spaced
						µΩ/m		nH/m		µΩ/ m	
35	524	668	5.0	251	0.35	122	178	327	524	679	695
50	387	494	6.8	281	0.39	116	172	313	514	511	527
70	268	343	9.8	341	0.45	110	165	300	495	364	386
95	193	248	13.3	397	0.50	104	160	287	485	272	300
120	153	196	17.2	430	0.55	104	159	283	480	225	257
150	124	159	21.2	464	0.59	100	156	280	475	193	229
185	99	128	26.6	513	0.65	98	154	274	465	165	206
240	75	98	34.9	573	0.70	94	150	267	459	140	185
300	60	80	43.8	652	0.72	91	147	260	455	128	174
400	47	64	57.3	727	0.75	90	147	253	445	113	164
500	37	51	72.3	754	0.79	89	145	248	435	105	158
630	28	42	91.2	786	0.87	86	143	245	425	97	151

Single Core 18/30KV (Um=36KV) Dimensional Data

Nom. Cross-Section Area	Outer-Ø ca.mm	Cable Weight Approx	AWG
n×mm ²	± 10%	kg/km	no.*)
1×50	35.9	1400	1
1×70	36.1	1700	2/0
1×95	37.8	1950	3/0
1×120	39.1	2230	4/0
1×150	40.7	2550	250 MCM
1×185	42.6	3000	350 MCM
1×240	45.3	3600	450 MCM
1×300	47.8	4300	550 MCM
1×400	51.2	5200	750 MCM
1×500	55	6300	900 MCM
1×630	61.9	7800	1150 MCM

Electrical Data

Nom. Cross-Section Area	D C Resistance CU	A C Resistance CU	Short Circuit Rating of Conductor CU 1 sec	Capacitance	Charging Current	Reactance		Inductance		Impedance	
						Trefoil	Flat Spaced	Trefoil	Flat Spaced	Trefoil	Flat Spaced
						µΩ/m		nH/m		µΩ/ m	
mm ²	µΩ/m	µΩm	kA	pF/m	mA/m	µΩ/m		nH/m		µΩ/ m	
50	387	494	6.8	281	0.39	116	172	313	514	511	527
70	268	343	9.8	341	0.45	110	165	300	495	364	386
95	193	248	13.3	397	0.50	104	160	287	485	272	300
120	153	196	17.2	430	0.55	104	159	283	480	225	257
150	124	159	21.2	464	0.59	100	156	280	475	193	229
185	99	128	26.6	513	0.65	98	154	274	465	165	206
240	75	98	34.9	573	0.70	94	150	267	459	140	185
300	60	80	43.8	652	0.72	91	147	260	455	128	174
400	47	64	57.3	727	0.75	90	147	253	445	113	164
500	37	51	72.3	754	0.79	89	145	248	435	105	158
630	28	42	91.2	786	0.87	86	143	245	425	97	151

Current Rating Conditions:

Ground Temperature: 20°C

Ambient Temperature (air): 30°C

Depth of Soil: 0.8m

Thermal Resistance of Soil: 1.5K•m/W