

TABLE C13

6350/11,000V paper insulated three-core screened lead sheathed, armoured and served cables

1	2	3	4	5	6
Nominal area of conductor	Laid direct in the ground		In single-way ducts		In air
	Maximum conductor temperature 70°C		Maximum conductor temperature 70°C		
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
	in ² *0-0.225 0-0.4 0-0.6 0-1 0-1.5 0-2 0-2.5 0-3 0-4 0-5	amp 100 140 180 240 295 350 390 435 510 560	amp 93 130 165 215 265 315 365 395 460 500	amp 84 110 145 200 245 285 325 360 425 470	

*Circular conductors.

TABLE C14

6350/11,000V paper insulated three-core screened lead sheathed, and served cables

Nominal area of conductor	Laid direct in the ground		In single-way ducts		In air
	Maximum conductor temperature 70°C		Maximum conductor temperature 50°C		
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
in ²	amp	amp	amp	amp	amp
*0-0.225	105	94	68	65	90
0-0.4	145	130	94	90	125
0-0.6	185	165	115	110	160
0-1	245	220	160	150	220
0-1.5	300	270	195	185	275
0-2	355	320	230	220	330
0-2.5	405	360	265	250	380
0-3	455	410	295	280	435
0-4	530	475	350	330	525
0-5	590	520	395	370	590

*Circular conductors.

TABLE C15

Three 6350/11,000V paper or VC insulated single-core lead sheathed and served cables

1	2	3	4	5	6
Nominal area of conductor	Trefoil groups laid direct in the ground with servings touching		Cables laid in Trefoil ducts		Cables in trefoil groups in air with servings touching †
	Maximum conductor temperature 70°C		Maximum conductor temperature 50°C		Maximum conductor temperature 70°C
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
	in ² 0-0.0225 0-0.04 0-0.06 0-1 0-1.5 0-2 0-2.5 0-3 0-4 0-5 0-6 0-7.5 1-0	amp 110 145 180 250 310 365 415 450 520 580 650 720 820	amp 98 130 160 225 275 325 365 400 460 510 570 630 720	amp 86 115 145 195 245 285 315 350 405 440 480 530 590	

† See table C47 for rating factors for VC insulated cables.

TABLE C16

12,700/22,000V paper insulated three-core lead sheathed, armoured and served cables

Nominal area of conductor	Laid direct in the ground		In single-way ducts		In air
	Maximum conductor Temperature 55°C		Maximum conductor Temperature 55°C		
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
in ²	amp	amp	amp	amp	amp
0-0.4	115	105	98	94	98
0-0.6	145	130	120	115	125
0-1	195	180	165	160	170
0-1.5	240	220	205	195	215
0-2	285	265	245	235	260
0-2.5	320	300	257	245	295
0-3	365	335	310	295	335

TABLE C10

Three 1900/3300V and 3800/6600V paper or VC insulated single-core lead sheathed and served cables

1	2	3	4	5	6
Nominal area of conductor	Trefoil groups laid direct in the ground with servings touching		Cables laid in trefoil ducts		Cables in trefoil groups in air with servings touching†
	Maximum conductor temperature 80°C		Maximum conductor temperature 60°C		
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
in ²	amp	amp	amp	amp	amp
0-0225	120	105	97	91	110
0-04	160	140	130	125	160
0-06	200	175	165	155	205
0-1	275	245	220	210	280
0-15	335	300	270	255	360
0-2	390	350	315	295	425
0-25	445	395	360	335	490
0-3	495	435	400	365	560
0-4	580	510	460	425	670
0-5	640	560	510	465	760
0-6	700	620	550	500	860
0-75	780	680	600	550	960
1-0	890	780	660	610	1130

†See table C47 for rating factors for VC insulated cables.

TABLE C11

6350/11,000V paper or VC insulated three-core lead sheathed, armoured and served cables (belted type)

1	2	3	4	5	6
Nominal area of conductor	Laid direct in the ground		In single-way ducts		In air†
	Maximum conductor temperature 65°C		Maximum conductor temperature 65°C		
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
in ²	amp	amp	amp	amp	amp
0-0225	92	85	78	75	79
0-04	130	120	110	105	115
0-06	160	145	135	125	140
0-1	220	205	185	175	200
0-15	270	250	230	215	250
0-2	320	290	270	255	295
0-25	370	335	315	295	345
0-3	410	370	350	330	390
0-4	475	430	405	380	465
0-5	530	475	450	420	530

*Circular conductors.

TABLE C12

6350/11,000V paper or VC insulated three-core lead sheathed and served cables (belted type)

1	2	3	4	5	6
Nominal area of conductor	Laid direct in the ground		In single-way ducts		In air†
	Maximum conductor temperature 65°C		Maximum conductor temperature 50°C		
	Thermal resistivity of soil (g) in °C cm/W				
	90	120	90	120	
in ²	amp	amp	amp	amp	amp
0-0225	93	86	66	64	79
0-04	135	120	92	88	110
0-06	165	145	120	110	140
0-1	225	205	160	150	200
0-15	275	250	190	180	250
0-2	325	290	225	215	295
0-25	375	335	255	240	345
0-3	425	380	290	275	395
0-4	495	450	350	330	470
0-5	560	510	395	370	540

*Circular conductors.

†See table C47 for rating factors for VC insulated cables.