

- Conductor
- 2. Conductor Screen
- 3. XLPE Insulation
- 4. Insulation Screen (Non-Metallic)
- Insulation Screen (Metallic)
- 6. Bedding
- 7. Aluminium Tape Armour
- 8. Outer Sheath

ttem code (1)	Size	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Diameter over Insulation (Approx.)	Number and Nominal Thickness of Steel Tape	Nominal Outer Sheath thickness		Overall Diameter (Approx.)		Weight of Cable (Approx.)	
						CUT	CUW	CUT	CUW	CUT	CUW
	mm²	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
10	25	5.9	3.4	14.3	2x0.5	1.8	1.8	25	26	850	1050
11	35	6,9	3.4	15.3	2x0.5	1.8	1.8	26	27	1000	1200
12	50	8.1	3.4	16.5	2x0.5	1.8	1.8	27	28	1150	1350
13	70	9.7	3.4	18.1	2x0.5	1.8	1.9	29	30	1400	1800
14	95	11.4	3.4	19.8	2x0.5	1.9	1.9	31	32	1700	1900
15	120	12.9	3.4	21.3	2x0.5	1.9	2.0	32	34	1975	2000
16	150	14.3	3.4	22.7	2x0.5	2.0	2.0	33	35	2300	2600
17	185	18.0	3,4	24.4	2x0.5	2.0	2.1	35	37	2700	3000
18	240	18.4	3.4	26.8	2x0.5	2.1	2.2	38	40	3250	3625
19	300	20.4	3.4	28.8	2x0.5	2.2	2.2	40	41	3950	4250
21	500	26.7	3.4	35.1	2x0.5	2.4	2.4	47	49	5975	8400
22	630	30.4	3.4	38.8	2x0.5	2.5	2.6	51	53	7475	7925

Size	Max. DC Resis- tance at 20°C	Inductance		Capaci- tance	Adiabatic Short Circuit Current for 1 second			Currer	Voltage Drop			
		Trefoil	Flat		Cond.	CUT	CUW	CUT		cuw		per
								Direct Buried	In Air	Direct Buried	In Air	p.11200
mm²	Ohm/km	mH/km	mH/km	mF/km	kA	kA	kA	Amps	Amps	Amps	Amps	V/A.Km
25	0.7270	0.488	0.790	0.21	3.575	0.383	2.000	165	167	166	170	0.852
35	0.5240	0.472	0.765	0.23	5.005	0.406	2.000	197	202	198	205	0.842
50	0.3870	0.450	0.739	0.25	7.150	0.434	2.000	233	242	233	245	0.497
70	0.2680	0.428	0.713	0.29	10.010	0.472	2.000	284	301	285	304	0.3700
95	0.1930	0.416	0.697	0.31	13.585	0.511	2.000	340	366	340	369	0.292
120	0.1530	0.401	0.678	0.34	17.180	0.548	2.000	385	421	385	425	0.248
150	0.1240	0.390	0.663	0.37	21.450	0.579	3,125	431	477	429	480	0.216
185	0.0991	0.378	0,847	0.40	26,455	0.618	3.125	486	548	482	547	0.188
240	0.0754	0.363	0.627	0.45	34.320	0.874	3.125	562	643	555	641	0.161
300	0.0601	0.351	0.611	0.49	42.900	0.721	3,125	630	732	818	728	0.143
400	0.0470	0.338	0.591	0.55	57.200	0.786	4.375	708	839	686	822	0.128
500	0.0366	0,328	0,576	0.60	71,500	0.867	4.375	795	964	785	938	0.116
630	0.0283	0.317	0.580	0.68	90.090	0.954	4.375	886	1098	845	1058	0.107

1. The code numbers to be read in conjunction with 03020131 at the beginning. Example for 150 mm2 cable, the code number is 0302013116.

Code number for other types of insulaton screen, Replace the 6<sup>th</sup> digit as follows: 2 for S + CUW, 3 for B + CUT; 4 for B + CUW

## 2. LAYING CONDITIONS:

Underground temperature of soil 20°C, Ground thermal resistivity 100°C cm/W, Ambient temperature 30°C. Depth of laying = 700 mm.