

U_o/U(U_m)=76/132(145)KV-SINGLE-CORE CABLE

ALUMINUIM CONDUCTORS/19 mm XLPE INSULATION THICKNESS /LEAD screen /HDPE SHEATHED

Nominal cross-sectional area	Overall diameter Φ approx	Net weight approx	Max resistance		short circuit current of conductor for 1 sec.	charging current	Capacitance	Inductance		Voltage drop at 50 HZ $\cos.\phi$ 0.8	
			DC at 20°C	AC at 90°C				trefoil	flat	trefoil	flat
mm ²	mm	kg/km	Ω /KM	Ω /KM	ka/km	Amp/km	μ f/km	mh/km	mh/km	V/A/km	V/A/km
240	74.3	9267	0.1250	0.1620	22.08	2.96	0.124	0.440	0.486	0.415	0.439
300	76.8	9811	0.1000	0.1300	27.60	3.20	0.134	0.424	0.470	0.369	0.392
400	79.3	10454	0.0778	0.1000	36.80	3.41	0.143	0.410	0.456	0.326	0.349
500	83.3	11403	0.0605	0.0800	46.00	3.75	0.157	0.392	0.438	0.293	0.316
630	86.8	12334	0.0469	0.0621	57.96	4.06	0.170	0.378	0.424	0.264	0.288
800	90.8	13504	0.0367	0.0495	73.60	4.39	0.184	0.365	0.411	0.243	0.266
1000	98.8	15522	0.0291	0.0376	92.00	5.06	0.212	0.343	0.389	0.217	0.241
1200	102.3	16301	0.0247	0.0325	110.40	5.35	0.224	0.335	0.381	0.207	0.230

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Nominal cross-sectional area	Overall diameter Φ approx	Net weight approx	Max resistance		short circuit current of conductor for 1 sec.	charging current	Capacitance	Inductance		Voltage drop at 50 HZ $\cos.\phi$ 0.8	
			DC at 20°C	AC at 90°C				trefoil	flat	trefoil	flat
mm ²	mm	kg/km	Ω /KM	Ω /KM	ka/km	Amp/km	μ f/km	mh/km	mh/km	V/A/km	V/A/km
240	72.9	4731	0.1250	0.1620	22.08	2.96	0.124	0.436	0.482	0.414	0.437
300	75.4	5068	0.1000	0.1300	27.60	3.20	0.134	0.421	0.467	0.367	0.390
400	77.9	5506	0.0778	0.1000	36.80	3.41	0.143	0.407	0.453	0.324	0.348
500	81.9	6126	0.0605	0.0800	46.00	3.75	0.157	0.389	0.435	0.291	0.314
630	85.4	6770	0.0469	0.0621	57.96	4.06	0.170	0.375	0.421	0.263	0.286
800	89.4	7612	0.0367	0.0495	73.60	4.39	0.184	0.362	0.408	0.241	0.264
1000	97.4	8974	0.0291	0.0376	92.00	5.06	0.212	0.340	0.386	0.216	0.239
1200	100.9	9467	0.0247	0.0325	110.40	5.35	0.224	0.332	0.378	0.206	0.229

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Current carrying capacity														
Nominal cross-sectional area	cables in ground at 25 °C				cables in air 35 °C			cables in ground at 35 °C				cables in air 45 °C		
	solid-bonded sheaths		cross-bonded sheaths		solid-bonded sheaths		cross bonded sheaths	solid-bonded sheaths		cross-bonded sheaths		solid-bonded sheaths		cross-bonded sheaths
	trefoil touching	axial space 0.15m	axial space 0.15m	axial space 0.45m	trefoil touching	axial space 0.15m	axial space 0.15m	trefoil touching	axial space 0.15m	axial space 0.15m	axial space 0.45m	trefoil touching	axial space 0.15m	axial space 0.15m
mm ²	trefoil	flat	flat	flat	trefoil	flat	flat	trefoil	flat	flat	flat	trefoil	flat	flat
240	381	380	398	436	488	526	538	351	350	366	401	439	473	484
300	429	426	450	495	558	601	619	395	392	414	455	502	541	557
400	489	480	516	569	647	697	724	450	442	475	523	582	627	652
500	556	539	591	654	750	806	848	512	496	544	602	675	725	763
630	631	602	674	751	866	927	991	581	554	620	691	779	834	892
800	707	662	763	855	933	1057	1149	650	609	702	787	840	951	1034
1000	793	722	873	986	1147	1208	1350	730	664	803	907	1032	1087	1215
1200	850	762	949	1079	1256	1318	1500	782	701	873	993	1130	1186	1350

Thermal resistivity of soil 1.2 °C m/w

Depth of laying 1 m