

## U<sub>0</sub>/U(U<sub>m</sub>)=8.7/15(17.5)KV-SINGLE-CORE CABLE- ARMoured (AWA)

### COPPER CONDUCTORS/ 4.5 mm XLPE INSULATION THICKNESS / PVC SHEATHED-90°C

Nominal cross-sectional area	Overall diameter $\Phi$ approx	Net weight approx	Max resistance		Current carrying capacity				short circuit current of conductor for 1 sec.	Capacitance	Inductance		Voltage drop at 50 HZ $\cos.\phi$ 0.8	
			DC at 20°C	AC at 90°C	Ground at 35°C trefoil flat		Air at 40°C trefoil flat				trefoil	flat	trefoil	flat
mm <sup>2</sup>	mm	kg/km	$\Omega$ /KM	$\Omega$ /KM	Amp	Amp	Amp	Amp	ka/km	$\mu$ f/km	mh/km	mh/km	V/A/km	V/A/km
<b>1x25</b>	28.4	1191	0.727	0.927	130	135	135	160	3.58	0.164	0.452	0.498	1.339	1.363
<b>1x35</b>	29.5	1334	0.524	0.668	160	170	170	200	5.01	0.178	0.435	0.481	1.020	1.043
<b>1x50</b>	30.9	1517	0.387	0.494	185	195	195	245	7.15	0.198	0.416	0.462	0.802	0.825
<b>1x70</b>	33.7	1911	0.268	0.342	230	235	250	305	10.01	0.224	0.400	0.446	0.611	0.634
<b>1x95</b>	35.5	2222	0.193	0.247	275	285	305	370	13.59	0.249	0.383	0.429	0.489	0.512
<b>1x120</b>	37.4	2569	0.153	0.196	315	325	345	420	17.16	0.269	0.374	0.420	0.423	0.446
<b>1x150</b>	38.6	2902	0.124	0.159	350	355	400	480	21.45	0.285	0.366	0.412	0.374	0.398
<b>1x185</b>	40.6	3315	0.0991	0.1275	395	405	455	555	26.46	0.312	0.353	0.399	0.331	0.354
<b>1x240</b>	43.6	4028	0.0754	0.0975	460	465	540	645	34.32	0.348	0.341	0.387	0.288	0.312
<b>1x300</b>	47.2	4841	0.0601	0.0800	520	525	630	740	42.90	0.381	0.335	0.381	0.265	0.288
<b>1x400</b>	50.5	5885	0.0470	0.0630	580	570	720	825	57.20	0.420	0.326	0.372	0.240	0.263
<b>1x500</b>	54.5	7161	0.0366	0.0520	660	640	835	940	71.50	0.474	0.314	0.360	0.220	0.243
<b>1x630</b>	58.3	8596	0.0283	0.0415	730	700	950	1060	90.09	0.524	0.305	0.351	0.203	0.226
<b>1x800</b>	63.0	10234	0.0221	0.0325	850	945	1120	1440	114.40	0.581	0.297	0.343	0.188	0.211
<b>1x1000</b>	74.5	13284	0.0176	0.0235	1050	1155	1470	1815	143.00	0.716	0.284	0.330	0.171	0.194

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**ALUMINIUM CONDUCTORS/ 4.5 mm XLPE INSULATION THICKNESS / PVC SHEATHED-90°C**

Nominal cross-sectional area	Overall diameter $\Phi$ approx	Net weight approx	Max resistance		Current carrying capacity				short circuit current of conductor for 1 sec.	Capacitance	Inductance		Voltage drop at 50 HZ $\cos.\phi$ 0.8	
			DC at 20°C	AC at 90°C	Ground at 35°C trefoil flat		Air at 40°C trefoil flat				trefoil	flat	trefoil	flat
mm <sup>2</sup>	mm	kg/km	$\Omega$ /KM	$\Omega$ /KM	Amp	Amp	Amp	Amp	ka/km	$\mu$ f/km	mh/km	mh/km	V/A/km	V/A/km
<b>1x25</b>	28.4	1039	1.200	1.539	100	105	105	105	2.30	0.164	0.452	0.498	2.074	2.097
<b>1x35</b>	29.5	1121	0.868	1.113	125	125	130	150	3.22	0.178	0.435	0.481	1.554	1.577
<b>1x50</b>	30.9	1231	0.641	0.822	150	150	160	185	4.60	0.198	0.416	0.462	1.195	1.218
<b>1x70</b>	33.7	1473	0.443	0.569	180	185	195	230	6.44	0.224	0.400	0.446	0.884	0.907
<b>1x95</b>	35.5	1648	0.320	0.411	210	220	235	290	8.74	0.249	0.383	0.429	0.686	0.709
<b>1x120</b>	37.4	1846	0.253	0.325	245	255	275	335	11.04	0.269	0.374	0.420	0.578	0.601
<b>1x150</b>	38.6	1997	0.206	0.265	270	280	315	375	13.80	0.285	0.366	0.412	0.502	0.525
<b>1x185</b>	40.6	2215	0.1640	0.2110	310	315	360	430	17.02	0.312	0.353	0.399	0.431	0.454
<b>1x240</b>	43.6	2555	0.1250	0.1620	360	365	425	520	22.08	0.348	0.341	0.387	0.366	0.389
<b>1x300</b>	47.2	3012	0.1000	0.1300	400	410	480	590	27.60	0.381	0.335	0.381	0.325	0.348
<b>1x400</b>	50.5	3511	0.0778	0.1000	455	465	570	675	36.80	0.420	0.326	0.372	0.284	0.307
<b>1x500</b>	54.5	4070	0.0605	0.0800	520	530	665	805	46.00	0.474	0.314	0.360	0.254	0.277
<b>1x630</b>	58.3	4720	0.0469	0.0621	595	600	775	895	57.96	0.524	0.305	0.351	0.228	0.251
<b>1x800</b>	63.0	5486	0.0367	0.0495	680	760	920	1145	73.60	0.581	0.297	0.343	0.209	0.232
<b>1x1000</b>	74.5	7102	0.0291	0.0376	835	905	1160	1415	92.00	0.716	0.284	0.330	0.188	0.211