

## 26/35KV Power Cables Single Core Cables to IEC 60502

### Single Core 26/35KV (Um=42KV) Dimensional Data

Nom. Cross-Section Area				Unarmoured Cables				Aluminium Wire Armoured Cables					
	Nom. Insulation Thickness	Copper Tape Thickness	Copper Wire Screen Area*	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Nom. Bedding Thickness	Armour Wire Size	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
						Cu	Al					Cu	Al
mm <sup>2</sup>	mm	mm	mm <sup>2</sup>	mm	mm	kg/km		mm	mm	mm	mm	kg/km	
50	10.5	0.1	16	2.1	38.3	1689	1402	1.2	2.5	2.5	46.8	2580	2395
70	10.5	0.1	16	2.2	40.2	1980	1564	1.2	2.5	2.5	48.8	2937	2611
95	10.5	0.1	16	2.2	41.8	2283	1714	1.2	2.5	2.6	50.9	3206	2737
120	10.5	0.1	16	2.3	43.4	2588	1871	1.4	2.5	2.6	51.5	3753	3177
150	10.5	0.1	25	2.3	44.9	2923	2028	1.4	2.5	2.7	53.8	4143	3371
185	10.5	0.1	25	2.4	47.3	3415	2281	1.4	2.5	2.7	55.6	4694	3693
240	10.5	0.1	25	2.5	49.5	3975	2542	1.4	2.5	2.8	57.6	5258	4005
300	10.5	0.1	25	2.5	51.9	4625	2822	1.4	2.5	2.9	60.8	5940	4301
400	10.5	0.1	35	2.6	54.9	5704	3288	1.6	2.5	3.0	63.6	7155	4894

\*Optional wire screen can be provided in combination of copper tapes. Nominal screen area, as stated in the table, can be supplied as standard.

### Electrical Data

Nom. Cross-Section Area	D C Resistance CU / AL	A C Resistance CU / AL	Short Circuit Rating of Conductor CU / AL 1 sec	Capacitance	Charging Current	Short Circuit Rating of Copper Wire Screen 1 sec	Short Circuit Rating of Copper Tape Screen 1 sec	Reactance		Inductance		Impedance			
								Trefoil	Flat Spaced	Trefoil	Flat Spaced	Trefoil		Flat spaced	
												Cu	AL	Cu	AL
mm <sup>2</sup>	μΩ/m	μΩm	kA	pF/m	mA/m	kA	kA	μΩ/m		nH/m		μΩ/ m		μΩ/ m	
50	387/641	494/822	6.8/4.4	126	0.95	2.6	1.2	161	227	510	720	511	834	527	844
70	268/443	343/568	9.8/6.3	138	1.04	2.6	1.2	154	207	490	660	364	583	386	597
95	193/320	248/410	13.3/8.5	151	1.13	2.6	1.3	147	202	470	640	272	427	300	446
120	153/253	196/325	17.2/11.0	161	1.24	2.6	1.3	142	194	450	620	225	345	257	367
150	124/206	159/265	21.2/13.5	169	1.36	4.3	1.4	136	188	430	600	193	287	229	313
185	99.1/164	128/211	26.6/17.0	176	1.40	4.3	1.4	128	188	410	600	165	237	206	267
240	75.4/125	98/161	34.9/22.3	192	1.51	4.3	1.5	128	183	400	580	140	191	185	226
300	60.1/100	80/130	43.8/28.0	209	1.64	4.3	1.6	119	180	380	570	126	163	174	203
400	47.0/77.8	64/102	57.3/36.6	227	1.80	5.8	1.7	114	170	360	540	113	141	164	184

\* For capacitance & charging current values, multiply values shown by 1.2 for EPR insulated cables.