

## 21/35KV Power Cables Single Core Cables to IEC 60502

### Single Core 21/35KV (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	9.3	0.1	16	2.0	35.7	1526	1239	1.2	2.0	2.3	43.5	2331	2116
70	9.3	0.1	16	2.1	37.6	1809	1393	1.2	2.5	2.4	46.6	2680	2325
95	9.3	0.1	16	2.2	39.4	2123	1555	1.2	2.5	2.5	48.4	2981	2482
120	9.3	0.1	16	2.2	40.8	2405	1688	1.4	2.5	2.5	49.8	3487	2867
150	9.3	0.1	25	2.2	42.3	2733	1838	1.4	2.5	2.6	51.5	3870	3055
185	9.3	0.1	25	2.3	44.7	3216	2082	1.4	2.5	2.6	53.5	4420	3370
240	9.3	0.1	25	2.4	46.9	3766	2333	1.4	2.5	2.7	55.8	4981	3676
300	9.3	0.1	25	2.4	49.3	4408	2605	1.4	2.5	2.8	58.5	5661	3971
400	9.3	0.1	35	2.5	52.3	5473	3057	1.6	2.5	2.9	61.7	6865	4550

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

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### 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	130	0.89	2.6	1.1	156	220	495	700	511	834	527	844
70	268/443	343/568	9.8/6.3	144	0.98	2.6	1.1	150	204	475	650	364	583	386	597
95	193/320	248/410	13.3/8.5	159	1.06	2.6	1.2	142	198	455	630	272	427	300	446
120	153/253	196/325	17.2/11.0	171	1.18	2.6	1.2	137	191	435	610	225	345	257	367
150	124/206	159/265	21.2/13.5	180	1.26	4.3	1.3	131	185	415	590	193	287	229	313
185	99.1/164	128/211	26.6/17.0	193	1.34	4.3	1.3	125	185	400	590	165	237	206	267
240	75.4/125	98/161	34.9/22.3	210	1.45	4.3	1.4	123	179	390	570	140	191	185	226
300	60.1/100	80/130	43.8/28.0	228	1.57	4.3	1.5	116	176	370	560	126	163	174	203
400	47.0/77.8	64/102	57.3/36.6	249	1.74	5.8	1.6	110	166	350	530	113	141	164	184

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