

## 26/35KV Power Cables Three Cores Cables to IEC 60502

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

Nom. Cross-Section Area	Nom. Insulation Thickness	Copper Tape Thickness	Copper Wire Screen Area*	Unarmoured Cables				Steel Round-Wire Armoured Cables					
				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	3.4	79.7	5928	5053	1.9	3.5	4.0	93.5	12050	11150
70	10.5	0.1	16	3.5	83.6	6900	5634	2.0	4.0	4.1	97.5	13150	11850
95	10.5	0.1	16	3.6	87.2	7863	6131	2.1	4.0	4.2	101.5	14800	12950
120	10.5	0.1	16	3.8	90.7	8817	6634	2.2	4.0	4.4	105.5	16050	13800
150	10.5	0.1	25	3.9	94.1	10085	7361	2.3	4.5	4.5	108.5	17420	14640
185	10.5	0.1	25	4.0	99.1	11573	8120	2.3	4.5	4.6	112	19200	15700
240	10.5	0.1	25	4.1	103.6	13387	9023	2.4	4.5	4.7	117	21050	16800
300	10.5	0.1	25	4.3	109.2	15658	10060	2.5	4.5	4.8	122.5	24900	19100
400	10.5	0.1	35	4.5	115.6	19013	11657	2.6	4.5	5.1	129	29200	21560

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

Nom. Cross-Section Area	Steel Flat Wire Armoured Cables						Double Steel Tape Armoured Cables					
	Nom. Bedding Thickness	Armour Wire Size	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Nom. Bedding Thickness	No of Steel tapes x nom tape thickness	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL					CU	AL
mm <sup>2</sup>	mm	mm	mm	mm	kg/km		mm	mm	mm	mm	kg/km	
50	1.9	0.8	3.5	86.5	10880	9990	1.9	2x0.8	3.7	87.5	10690	9800
70	2.0	0.8	3.6	90.5	12000	10795	2.0	2x0.8	3.8	91.4	10800	10590
95	2.1	0.8	3.8	94.0	13360	11570	2.1	2x0.8	3.9	95.2	13110	11327
120	2.2	0.8	3.9	96.4	13705	12710	2.2	2x0.8	4.0	98.7	14300	12110
150	2.3	0.8	4.0	99.5	16160	13440	2.3	2x0.8	4.1	102.1	15550	12800
185	2.3	0.8	4.1	105.1	18505	14465	2.3	2x0.8	4.2	107.3	17810	13765
240	2.4	0.8	4.2	109.8	20390	15890	2.4	2x0.8	4.4	112.2	19650	15150
300	2.5	0.8	4.4	115.5	22970	17280	2.5	2x0.8	4.6	118.0	22200	16500
400	2.6	0.8	4.6	122.1	26600	19430	2.6	2x0.8	4.8	124.6	25780	18600

## 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 Per Core 1 sec	Short Circuit Rating of Copper Tape Screen Per Core 1 sec	Reactance	Inductance
mm <sup>2</sup>	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	kA	μΩ/m	nH/m
50	387/641	494/822	6.8/4.4	131	0.97	2.6	1.2	146	470
70	268/443	343/568	9.8/6.3	145	1.07	2.6	1.2	139	430
95	193/320	248/410	13.3/8.5	158	1.18	2.6	1.3	132	420
120	153/253	196/325	17.2/11.0	169	1.26	2.6	1.3	128	400
150	124/206	159/265	21.2/13.5	178	1.36	4.3	1.4	123	390
185	99.1/164	128/211	26.6/17.0	185	1.44	4.3	1.4	118	380
240	75.4/125	98/161	34.9/22.3	203	1.57	4.3	1.5	113	360
300	60.1/100	80/130	43.8/28.0	219	1.72	4.3	1.6	109	350
400	47.0/77.8	64/102	57.3/36.6	245	1.85	5.8	1.7	105	320