



#### Construction:

1. Stranded (RM) aluminium wires.
  2. Inner layer of semi-conducting material.
  3. Core insulation of cross-linked polyethylene.
  4. Outer layer of semi-conducting material.
  5. Screen of copper wires.
  6. Outer sheath of polyvinylchloride (PVC)
- Available colours are black or red.

#### Technical data and tests:

- Rated voltage : 6/10 kV; 12/20 kV; 18/30 kV; 20,8/36 kV.  
 Cable standard : DIN VDE 0267-620.  
 Operating temperature, short circuit : 250° C.  
 Max. conductor temperature in service : 90° C.  
 Minimum installation temperature : -5° C.  
 Flammability : EN 60332-1.  
 Lead free.

#### Applications:

This medium voltage power cable is for static application in ground, within and outside facilities, outdoor, in cable canals, in water and in conditions where cables are not exposed to heavier mechanical stress and tensile strain. Due to its very low factor of dielectric loss, which remains constant over its entire operating lifetime, and owing to excellent insulation property of XLPE-material, firmly longitudinally spliced with inner and external screen of semi-conductive material (extruded in one process), the cable has a high operating reliability. This cable can be used in switching blocks, transformer stations, industrial plants and in electric power plants. To avoid the effects of external impact, the adhering semi-conductive layer extruded between conductor and insulation, along with concentric aluminium conductor, secures restriction of electric field and resistance to partial discharges.

### DIMENSIONS 6/10 kV

No. of cores x cross section mm <sup>2</sup>	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number		Current carrying capacity		Capacitance µF/km	Inductance mH/km
					AL kg/km	CU kg/km	in ground A	in air A		
1 x 70/16	26,0	17,7	806	0,4430	203	182	209	226	0,28	0,4
1 x 95/16	27,5	19,4	905	0,3200	276	182	249	275	0,31	0,38
1 x 120/16	28,9	20,8	1008	0,2530	348	182	283	317	0,36	0,37
1 x 150/25	30,3	22,2	1200	0,2060	435	283	316	359	0,37	0,36
1 x 185/25	31,9	23,8	1336	0,1640	537	283	358	412	0,4	0,34
1 x 240/25	34,3	26,2	1540	0,1250	696	283	416	489	0,45	0,33
1 x 300/25	36,7	28,6	1775	0,1000	870	283	469	559	0,49	0,32
1 x 400/35	40,0	31,7	2200	0,0778	1160	394	532	651	0,56	0,31
1 x 500/35	43,0	34,4	2604	0,0605	1450	394	599	744	0,61	0,29
1 x 630/35	46,2	38,0	3037	0,0469	1827	394	674	850	0,65	0,28

Any other sizes available upon request.





### DIMENSIONS 12/20 kV

No. of cores x cross section mm <sup>2</sup>	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number		Current carrying capacity		Capacitance μF/km	Inductance mH/km
					AL kg/km	CU kg/km	in ground A	in air A		
1 x 70/16	30,0	21,9	971	0,4430	203	182	211	229	0,19	0,43
1 x 95/16	31,7	23,6	1090	0,3200	276	182	252	278	0,21	0,41
1 x 120/16	33,1	25,0	1201	0,2530	348	182	287	320	0,23	0,39
1 x 150/25	34,5	26,4	1402	0,2060	435	283	320	363	0,25	0,38
1 x 185/25	36,1	28,0	1550	0,1640	537	283	362	415	0,27	0,37
1 x 240/25	38,5	30,4	1768	0,1250	696	283	421	493	0,3	0,35
1 x 300/25	40,9	32,8	2018	0,1000	870	283	474	563	0,33	0,34
1 x 400/35	43,7	35,5	2423	0,0778	1160	394	538	652	0,37	0,33
1 x 500/35	46,8	38,6	2838	0,0605	1450	394	606	746	0,4	0,32
1 x 630/35	50,4	42,2	3338	0,0469	1827	394	683	854	0,43	0,31

### DIMENSIONS 18/30 kV

No. of cores x cross section mm <sup>2</sup>	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number		Current carrying capacity		Capacitance μF/km	Inductance mH/km
					AL kg/km	CU kg/km	in ground A	in air A		
1 x 70/16	35,0	26,9	1213	0,4430	203	182	214	232	0,15	0,46
1 x 95/16	36,7	28,6	1346	0,3200	276	182	256	281	0,16	0,44
1 x 120/16	38,1	30,0	1468	0,2530	348	182	290	323	0,18	0,42
1 x 150/25	39,5	31,4	1678	0,2060	435	283	324	365	0,19	0,4
1 x 185/25	41,1	33,0	1838	0,1640	537	283	366	418	0,2	0,39
1 x 240/25	43,5	35,4	2074	0,1250	696	283	426	494	0,22	0,37
1 x 300/25	45,9	37,8	2342	0,1000	870	283	479	564	0,24	0,36
1 x 400/35	48,7	40,5	2766	0,0778	1160	394	545	654	0,27	0,34
1 x 500/35	52,0	43,6	3229	0,0605	1450	394	614	747	0,29	0,34

### DIMENSIONS 20,8/36 kV

No. of cores x cross section mm <sup>2</sup>	Outer diameter approx. mm	Diameter over insulation mm	Weight kg/km	Conductor DC resistance at 20° C	Metal number		Current carrying capacity		Capacitance μF/km	Inductance mH/km
					AL kg/km	CU kg/km	in ground A	in air A		
1 x 70/16	35,8	28,5	1230	0,4430	203	182	232	14	0,47	-
1 x 95/16	37,5	30,2	1363	0,3200	276	182	281	15	0,44	-
1 x 120/16	39,1	31,6	1504	0,2530	348	182	323	16	0,43	-
1 x 150/25	40,5	33,0	1716	0,2060	435	283	365	18	0,41	-
1 x 185/25	42,3	34,6	1898	0,1640	537	283	418	19	0,4	-
1 x 240/25	44,9	37,0	2158	0,1250	696	283	494	21	0,38	-
1 x 300/25	47,3	39,4	2430	0,1000	870	283	564	23	0,37	-
1 x 400/35	50,5	42,1	2907	0,0778	1160	394	654	25	0,35	-
1 x 500/35	53,8	45,2	3380	0,0605	1450	394	747	27	0,34	-

Any other sizes available upon request.

