



- 40/69 kV XLPE insulated, radial and longitudinally sealed, single core cables with aluminium conductor

Standards: VDE 0276 - 632, IEC 60840 TEST STANDARDS

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage Min. : 40/69 kV  
 bending radius : 20 x D  
 D : Cable outer diameter

### Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground in ducts. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the penetration of the water inside the cable.

### Construction

- 1 Stranded aluminium conductor
- 4 Outer semi conductive layer
- 7 Semi conductive swelling tape
- 2 Inner semi conductive layer
- 5 Semi conductive swelling tape
- 8 PE coated aluminium foil
- 3 XLPE insulation
- 6 Copper screen
- 9 PE outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES					
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Operation Capacitance (approx)	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)			
mm <sup>2</sup>	mm	kg/km	µF/km	ohm/km	In ground at 20 °C	In duct 20 °C	In air at 30 °C	
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1x300/25	61.0	2900	0.19	0.100	480	450	640	510
1x400/35	65.0	3300	0.21	0.0778	550	525	752	614
1x500/35	67.0	4000	0.23	0.0605	630	605	875	669
1x630/35	73.0	4500	0.26	0.0469	720	700	1020	805
1x800/35	77.0	5200	0.28	0.0367	820	800	1180	930
1x1000/50	80.0	6200	0.31	0.0291	930	910	1360	1056
1x1200/50	84.0	6900	0.33	0.0247	1040	1025	1555	1169
1x1600/70	90.0	8500	0.37	0.0212	1210	1179	1834	1432

■ Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden. ■ The above values correspond to the manufacturer's specifications and are not guaranteed.  
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