



**Code:** AL/XLPE/Corrugated AL/HDPE

**Standards:** VDE 0276 - 632, IEC 60840

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage : 64/110kV  
 Min. 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 or in ducts. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water inside the cable.

### Construction

- 1 Stranded aluminium conductor
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive swelling tape
- 6 Corrugated aluminium sheath
- 7 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	70,0	4677	0,19	0,100	407	377	593	527
1x400/35	74,0	5076	0,19	0,0778	485	444	690	627
1x500/35	78,0	5610	0,21	0,0605	523	479	745	677
1x630/35	81,0	6278	0,23	0,0469	591	542	910	844
1x800/35	85,0	6348	0,24	0,0367	665	590	1052	982
1x1000/50	89,0	7853	0,27	0,0291	727	643	1180	1110
1x1200/50	94,0	8792	0,29	0,0247	767	648	1226	1163
1x1600/70	100,0	10337	0,31	0,0212	912	784	1390	1310