76/132 kV with smooth welded aluminium sheath

Code: AL/XLPE/ATS/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	: 76/132kV
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 demages, 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. Smooth welded aluminium sheath
7. PE outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES					
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Operation Capaticance (approx)	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)			
					In ground at 20 °C	In duct 20 °C	In air at 30 °C	
mm ²	mm	kg/km	µF/km	ohm/km			***	****
1x300/25	74,0	5067	0,16	0,100	337	360	546	510
1x400/35	77,0	5533	0,17	0,0778	453	411	690	626
1x500/35	80,0	6034	0,19	0,0605	510	450	770	615
1x630/35	84,0	6740	0,21	0,0469	566	512	907	842
1x800/35	90,0	7756	0,23	0,0367	638	586	1017	982
1x1000/50	94,0	8596	0,23	0,0291	718	647	1186	1098
1x1200/50	97,0	9319	0,25	0,0247	760	674	1260	1162
1x1600/70	104,0	10910	0,27	0,0212	923	841	1362	1221