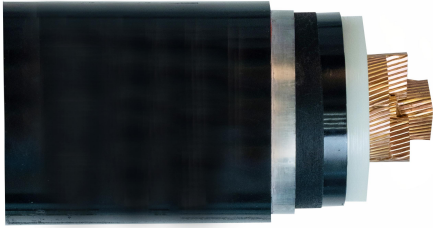


High-Voltage Power Cables



64/110 kV with Smooth Welded Aluminium Sheath

Standards: VDE 0276-632, IEC 60840

Technical Data

Max. operating temperature : 90 °C

Max. short circuit temperature : 250 °C (max. 5 sec.)

Rated voltage : 64/110 kV

Min. bending radius : 25 × 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 mechanical damage, swellable tapes prevent the movement of the water inside the cable.

Construction

- ① Stranded copper conductors
- 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 Capacitance (approx)	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)			
mm ²	mm	kg/km	µF/km	ohm/km	In ground at 20 °C	In duct 20 °C	In air at 30 °C	
							Flat	Trefoil
1x240/25	65.5	5100	0.18	0.0754	528	495	682	605
1x300/25	68.5	5800	0.19	0.0601	597	559	783	692
1x400/35	71.5	6700	0.21	0.0470	681	650	909	800
1x500/35	75.5	7900	0.22	0.0366	775	739	1053	922
1x630/35	79.5	9300	0.24	0.0283	884	841	1226	1065
1x800/35	83.5	11000	0.26	0.0221	994	945	1406	1208
1x1000/50	89.5	13300	0.29	0.0176	1169	1106	1695	1465
1x1200/50	94.5	15200	0.31	0.0151	1264	1231	1849	1595
1x1600/70	101.5	19100	0.34	0.0113	1456	1415	2185	1860
1x2000/95	112.5	23000	0.37	0.0090	1618	1570	2487	2089