



127/220 (245) kV

XLPE Insulated with Cu Wire +Lead Sheath

Continuous Current Rating for Single Circuit (A)

COPPER CONDUCTOR

Cross-Sectional Area (mm ²)		400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		700	799	915	1032	1151	1325	1478	1633	1788
Pipe		696	784	898	1016	1136	1312	1468	1630	1793
In Air	Trefoil	780	897	1034	1175	1322	1561	1762	1967	2174
	Flat (S=3D)	930	1081	1264	1450	1647	1921	2187	2461	2746

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		549	630	723	826	931	1047	1203	1344	1485
Pipe		538	619	710	812	919	1036	1195	1341	1487
In Air	Trefoil	614	712	822	948	1078	1238	1444	1632	1826
	Flat (S=3D)	732	856	1001	1162	1330	1517	1779	2022	2277

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm ²)	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	23,45	26,4	30,25	34	39	43,5	49,5	56	62
Thickness of Conductor Screen (mm)		3,3	1,8	1,2	1,2	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		23	22	21	21	20	20	20	20	20
Thickness of Insulation Screen (mm)		1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Cu-Screen Cross-Sectional Area (mm ²)		150	150	150	150	150	150	150	150	150
Thickness of Lead Sheath (mm)		2,5	2,5	2,5	2,6	2,7	2,8	2,9	3,2	3,2
Thickness of Outer Sheath (mm)		3,8	3,8	3,8	4	4	4,2	4,4	4,8	5,1
Outer Diameter of Cable (mm)		98	96	97	101	104	110	117	125	134
Weight of Cable (kg/m)		18,3	18,7	19,9	22,6	25	28,1	33,5	39,1	46,8
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,047	0,0366	0,0283	0,0221	0,0176	0,0151	0,0113	0,009	0,0072
Capacitance (microfarad/km)		0,139	0,143	0,156	0,166	0,191	0,209	0,229	0,252	0,277
Inductance (mH/km)		0,472	0,444	0,418	0,403	0,383	0,372	0,359	0,347	0,337

CONDUCTOR (Al)	Cross-Sectional Area (mm ²)	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	24,25	27,4	30,6	34,8	39	43,5	50,2	56	63,5
Max. DC Al Conductor Resistance at 20°C (ohm/km)		0,0778	0,0605	0,0469	0,0367	0,0291	0,0247	0,0186	0,0149	0,0127
Weight of Cable (kg/m)		16,2	16	16,2	17,8	18,8	20,8	24,1	26,9	31,1