



38/66 (72,5) kV

XLPE Insulated with Cu Wire + Lead Sheath

Continuous Current Rating for Single Circuit (A)

COPPER CONDUCTOR

Cross-Sectional Area (mm ²)		240	300	400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		551	624	714	814	932	1050	1170	1349	1504	1663	1820
Pipe		523	595	683	781	898	1016	1138	1316	1474	1640	1807
In Air	Trefoil	576	661	766	882	1020	1158	1305	1561	1765	1976	2185
	Flat (S=3D)	730	841	981	1138	1332	1530	1744	2039	2329	2639	2941

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		240	300	400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		428	487	560	643	737	840	947	1066	1225	1370	1513
Pipe		407	464	536	617	709	812	920	1040	1201	1349	1499
In Air	Trefoil	449	518	604	702	815	940	1072	1242	1454	1650	1848
	Flat (S=3D)	569	659	773	902	1055	1227	1409	1610	1896	2169	2440

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm ²)	240	300	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	18	20,4	23,45	26,4	30,25	34	39	43,5	49,5	56	63,5
Thickness of Conductor Screen (mm)		1	1	1	1	1	1	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		11	11	11	10	10	10	10	10	10	10	10
Thickness of Insulation Screen (mm)		1	1	1	1	1	1	1	1	1	1	1
Cu-Screen Cross-Sectional Area (mm ²)		35	50	50	50	50	50	50	70	70	70	95
Thickness of Lead Sheath (mm)		1,7	2	2	2	2	2,2	2,2	2,4	2,4	2,6	2,7
Thickness of Outer Sheath (mm)		2,7	2,8	2,9	2,9	3	3,1	3,3	3,4	3,6	4	4,3
Outer Diameter of Cable (mm)		60	63	66	67	71	76	82	88	94	102	111
Weight of Cable (kg/m)		7,6	9,2	10,3	11,3	13,1	15,7	18,4	21,5	25,9	31,4	38,4
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,0754	0,0601	0,047	0,0366	0,0283	0,0221	0,0176	0,0151	0,0113	0,009	0,0072
Capacitance (microfarad/km)		0,174	0,189	0,207	0,242	0,267	0,291	0,329	0,363	0,403	0,447	0,497
Inductance (mH/km)		0,423	0,409	0,392	0,371	0,356	0,344	0,333	0,325	0,314	0,306	0,299

CONDUCTOR (Al)	Cross-Sectional Area (mm ²)	240	300	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	18,5	21,1	24,25	27,4	30,6	34,8	39	43,5	50,2	56,5	63,5
Max. DC Al Conductor Resistance at 20°C (ohm/km)		0,125	0,1	0,0778	0,0605	0,0469	0,0367	0,0291	0,0247	0,0186	0,0149	0,0127
Weight of Cable (kg/m)		6,2	7,4	8,1	8,5	9,2	10,8	12,1	14,3	16,8	19,2	22,7