



76/132 (145) kV

XLPE Insulated with Cu Wire + Al Tape

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		543	615	704	803	917	1035	1154	1331	1483	1639	1795
Pipe		522	592	679	776	890	1007	1128	1304	1460	1621	1785
In Air	Trefoil	578	662	763	879	1014	1152	1294	1542	1741	1942	2148
	Flat (S=3D)	708	814	951	1102	1284	1474	1677	1961	2236	2518	2815

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		240	300	400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		423	479	552	633	726	828	934	1052	1207	1349	1491
Pipe		407	462	532	612	704	806	912	1030	1188	1333	1481
In Air	Trefoil	452	518	602	699	809	933	1061	1225	1431	1618	1813
	Flat (S=3D)	553	637	748	873	1016	1182	1355	1548	1820	2070	2335

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)		1,2	1,2	1,2	1,2	1,2	1,2	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		17	17	16	16	16	16	16	16	16	16	16
Thickness of Insulation Screen (mm)		1,2	1,2	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)		95	95	95	95	95	95	95	95	95	95	95
Thickness of Outer Sheath (mm)		3	3,1	3,1	3,2	3,3	3,4	3,6	3,7	3,9	1,3	4,6
Outer Diameter of Cable (mm)		70	73	74	77	81	85	91	96	103	111	120
Weight of Cable (kg/m)		6,1	6,8	7,6	8,8	10,3	12,2	14,6	16,8	20,5	24,9	30,8
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)		0,132	0,141	0,16	0,172	0,188	0,204	0,226	0,248	0,273	0,301	0,334
Inductance (mH/km)		0,458	0,44	0,415	0,4	0,383	0,369	0,355	0,345	0,333	0,323	0,313

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)		4,7	5	5,3	5,9	6,4	7,3	8	9,3	11	12,7	15,1