



220/380 (420) kV

XLPE Insulated with Cu Wire +Al Tape

Continuous Current Rating for Single Circuit (A)

COPPER CONDUCTOR

Cross-Sectional Area (mm ²)		800	1000	1200	1600	2000	2500	3000
Direct Buried		1006	1120	1287	1434	1583	1730	2004
Pipe		996	1110	1277	1428	1582	1737	2021
In Air	Trefoil	1153	1293	1521	1715	1911	2111	2457
	Flat (S=3D)	1387	1586	1853	2105	2367	2640	3116

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		800	1000	1200	1600	2000	2500	3000
Direct Buried		806	906	1017	1166	1302	1436	1640
Pipe		795	897	1008	1161	1301	1440	1652
In Air	Trefoil	928	1054	1214	1405	1585	1772	2038
	Flat (S=3D)	1111	1281	1463	1712	1945	2189	2542

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm ²)	800	1000	1200	1600	2000	2500	3000
	Shape	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	34	39	43,5	49,5	56	63,5	71
Thickness of Conductor Screen (mm)		1,8	1,4	1,4	1,5	1,6	1,6	1,6
Thickness of Insulation (mm)		30	28	27	27	27	27	27
Thickness of Insulation Screen (mm)		1,2	1,2	1,2	1,2	1,2	1,2	1,2
Cu-Screen Cross-Sectional Area (mm ²)		185	185	185	185	185	185	185
Thickness of Outer Sheath (mm)		4,4	4,4	4,5	4,7	5,1	5,3	5,6
Outer Diameter of Cable (mm)		116	117	120	127	134	143	152
Weight of Cable (kg/m)		17,6	19,2	21,3	25,4	29,9	36	42,7
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,0221	0,0176	0,0151	0,0113	0,009	0,0072	0,006
Capacitance (microfarad/km)		0,135	0,151	0,168	0,182	0,2	0,22	0,241
Inductance (mH/km)		0,433	0,405	0,39	0,375	0,362	0,349	0,336

CONDUCTOR (Al)	Cross-Sectional Area (mm ²)	800	1000	1200	1600	2000	2500	3000
	Shape	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	34,8	39	43,5	50,2	56,5	63,5	71
Max. DC Al Conductor Resistance at 20°C (ohm/km)		0,0367	0,0291	0,0247	0,0186	0,0149	0,0127	0,0099
Weight of Cable (kg/m)		12,7	12,7	13,8	15,9	17,7	20,3	23,4