



190/330 (362) 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
Direct Buried		1013	1128	1298	1447	1596	1746
Pipe		1000	1117	1287	1441	1593	1751
In Air	Trefoil	1157	1298	1529	1724	1921	2122
	Flat (S=3D)	1402	1596	1859	2113	2384	2659

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		800	1000	1200	1600	2000	2500
Direct Buried		809	913	1025	1177	1313	1450
Pipe		800	903	1017	1172	1310	1453
In Air	Trefoil	932	1058	1212	1412	1593	1782
	Flat (S=3D)	1123	1289	1468	1719	1959	2205

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm ²)	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	34	39	43,5	49,5	56	63,5
Thickness of Conductor Screen (mm)		1,2	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		28	27	27	27	26	26
Thickness of Insulation Screen (mm)		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
Thickness of Outer Sheath (mm)		4,3	4,3	4,5	4,7	5	5,3
Outer Diameter of Cable (mm)		111	114	120	127	132	141
Weight of Cable (kg/m)		16,6	18,8	21,3	25,2	29,4	35,6
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,0221	0,0176	0,0151	0,0113	0,009	0,0072
Capacitance (microfarad/km)		0,138	0,155	0,168	0,183	0,206	0,227
Inductance (mH/km)		0,425	0,402	0,039	0,375	0,358	0,346

CONDUCTOR (Al)	Cross-Sectional Area (mm ²)	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	34,8	39	43,5	50,2	56,5	63,5
Max. DC Al Conductor Resistance at 20°C (ohm/km)		0,0367	0,0291	0,0247	0,0186	0,0149	0,0127
Weight of Cable (kg/m)		11,7	12,3	13,8	15,7	17,2	19,9