



220/380 (420) kV

XLPE Insulated with Cu Wire +Lead Sheath

Continuous Current Rating for Single Circuit (A)

COPPER CONDUCTOR

Cross-Sectional Area (mm ²)		800	1000	1200	1600	2000	2500	3000
Direct Buried		1011	1126	1295	1444	1592	1801	2017
Pipe		1003	1199	1289	1441	1595	1812	2039
In Air	Trefoil	1166	1310	1539	1737	1936	2205	2490
	Flat (S=3D)	1396	1597	1867	2121	2388	2743	3138

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		800	1000	1200	1600	2000	2500	3000
Direct Buried		808	911	1023	1174	1310	1446	1651
Pipe		802	904	1018	1172	1311	1453	1668
In Air	Trefoil	938	1066	1220	1422	1604	1793	2062
	Flat (S=3D)	1118	1290	1474	1725	1963	2204	2558

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 Lead Sheath (mm)		2,9	2,9	3	3,2	3,2	3,2	3,2
Thickness of Outer Sheath (mm)		4,6	4,6	4,7	4,9	5,3	5,5	5,8
Outer Diameter of Cable (mm)		122	122	126	133	141	149	158
Weight of Cable (kg/m)		29,1	30,8	33,6	39,3	44,6	51,7	60
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)		0,442	0,415	0,399	0,384	0,37	0,351	0,344

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)		24,7	24,2	26,1	29,9	32,4	36	40,7