290/500 (550) kV

XLPE Insulated with 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		986	1099	1260	1359	1545	1755	1944
Pipe		984	1099	1260	1362	1554	1772	1972
In Air	Trefoil	1146	1289	1507	1648	1893	2168	2419
	Flat (S=3D)	1353	1536	1795	1986	2299	2664	3004

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm^2)		800	1000	1200	1600	2000	2500	3000
Direct Buried		787	889	995	1123	1276	1406	1606
Pipe		785	888	995	1125	1283	1419	1628
In Air	Trefoil	920	1047	1193	1368	1573	1756	2023
	Flat (S=3D)	1082	1241	1417	1641	1901	2133	2483

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)		3	2,4	2,7	2	1,6	1,6	1,6
Thickness of Insulation (mm)		33	33	31	30	30	30	30
Thickness of Insulation Screen (mm)		1,2	1,2	1,2	1,2	1,2	1,2	1,2
Cross-Sectional Area (mm^2)		3,7	3,8	3,8	3,9	4,3	4,5	4,7
Thickness of Outer Sheath (mm)		4,8	4,9	4,9	5,1	5,5	5,7	6
Outer Diameter of Cable (mm)		134	138	140	143	151	160	168
Weight of Cable (kg/m)		33,5	36,8	38,9	43,3	50,9	59	67,4
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)		0,132	0,14	0,158	0,172	0,187	0,204	0,219
Inductance (mH/km)		0,461	0,44	0,42	0,399	0,386	0,371	0,360

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)		28,8	30,5	31,6	34	38,4	43,3	48,1