



127/220 (245) kV

XLPE Insulated with Lead Sheath

Continuous Current Rating for Single Circuit (A)

COPPER CONDUCTOR

Cross-Sectional Area (mm ²)		400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		697	797	911	1028	1147	1325	1479	1634	1792
Pipe		682	780	893	1010	1131	1310	1467	1628	1795
In Air	Trefoil	775	890	1026	1166	1311	1559	1760	1967	2182
	Flat (S=3D)	926	1076	1259	1444	1641	1931	2198	2474	2781

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		546	628	720	822	927	1047	1204	1345	1482
Pipe		535	615	706	808	914	1035	1195	1340	1483
In Air	Trefoil	609	706	816	941	1071	1238	1447	1634	1819
	Flat (S=3D)	729	852	996	1157	1326	1525	1794	2035	2273

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm ²)	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	23,45	26,4	30,25	34	39	43,5	49,5	56	63,5
Thickness of Conductor Screen (mm)		3,3	1,8	1,2	1,2	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		23	22	21	21	20	20	20	20	20
Thickness of Insulation Screen (mm)		1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Thickness of Lead Sheath (mm)		3	3	3	3,1	3,2	3,3	3,4	3,8	4
Thickness of Outer Sheath (mm)		3,7	3,7	3,8	3,9	4	4,1	4,3	4,7	5
Outer Diameter of Cable (mm)		95	93	94	98	102	107	114	123	131
Weight of Cable (kg/m)		18	18,4	19,6	22,3	25,2	28,2	33,4	40,3	48,2
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,047	0,0366	0,0283	0,0221	0,0176	0,0151	0,0113	0,009	0,0072
Capacitance (microfarad/km)		0,139	0,143	0,156	0,168	0,191	0,209	0,229	0,252	0,277
Inductance (mH/km)		0,465	0,440	0,413	0,397	0,377	0,365	0,353	0,343	0,333

CONDUCTOR (Al)	Cross-Sectional Area (mm ²)	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	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)		0,0778	0,0605	0,0469	0,0367	0,0291	0,0247	0,0186	0,0149	0,0127
Weight of Cable (kg/m)		15,9	15,6	15,8	17,5	18,8	21	24	28,1	32,5