



38/66 (72,5) kV

XLPE Insulated with Lead Sheath

Continuous Current Rating for Single Circuit (A)

COPPER CONDUCTOR

Cross-Sectional Area (mm ²)		240	300	400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		549	620	710	810	925	1044	1164	1347	1502	1660	1819
Pipe		519	588	675	774	888	1006	1129	1310	1433	1634	1803
In Air	Trefoil	568	648	752	867	1002	1139	1282	1550	1754	1963	2178
	Flat (S=3D)	725	830	969	1126	1316	1515	1727	2043	2335	2641	2973

HDPE pipe diameter = 2D

ALUMINIUM CONDUCTOR

Cross-Sectional Area (mm ²)		240	300	400	500	630	800	1000	1200	1600	2000	2500
Direct Buried		427	482	556	639	733	835	942	1065	1225	1367	1508
Pipe		403	459	530	611	702	805	913	1035	1199	1344	1492
In Air	Trefoil	442	508	594	691	801	926	1055	1235	1450	1641	1834
	Flat (S=3D)	563	650	763	893	1042	1215	1396	1614	1907	2171	2431

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm ²)	240	300	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	18	20,4	23,45	26,4	30,25	34	39	43,5	49,5	56	63,5
Thickness of Conductor Screen (mm)		1	1	1	1	1	1	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		11	11	11	10	10	10	10	10	10	10	10
Thickness of Insulation Screen (mm)		1	1	1	1	1	1	1	1	1	1	1
Thickness of Lead Sheath (mm)		2,1	2,1	2,2	2,2	2,3	2,4	2,6	2,7	2,8	3,2	3,4
Thickness of Outer Sheath (mm)		2,6	2,7	2,8	2,8	3	3,1	3,2	3,4	3,6	4	4,2
Outer Diameter of Cable (mm)		56	59	62	63	68	72	78	84	91	100	108
Weight of Cable (kg/m)		7,6	8,5	9,8	10,9	12,9	15,3	18,5	21,3	26,1	32,2	39,4
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,0754	0,0601	0,047	0,0366	0,0283	0,0221	0,0176	0,0151	0,0113	0,009	0,0072
Capacitance (microfarad/km)		0,174	0,189	0,207	0,242	0,267	0,291	0,329	0,363	0,403	0,447	0,497
Inductance (mH/km)		0,416	0,396	0,38	0,359	0,346	0,335	0,325	0,317	0,307	0,301	0,294

CONDUCTOR (Al)	Cross-Sectional Area (mm ²)	240	300	400	500	630	800	1000	1200	1600	2000	2500
	Shape	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Segmentalled	Segmentalled	Segmentalled	Segmentalled
	Diameter (mm)	18,5	21,1	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)		0,125	0,1	0,0778	0,0605	0,0469	0,0367	0,0291	0,0247	0,0186	0,0149	0,0127
Weight of Cable (kg/m)		6,2	6,7	7,6	8	9,3	10,4	12,2	14	16,5	20	23,7