



64/110 (123) kV

XLPE Insulated with Cu Wire + 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		547	620	710	810	925	1046	1164	1342	1497	1653	1812
Pipe		525	596	685	783	898	1018	1139	1317	1495	1638	1806
In Air	Trefoil	584	668	774	891	1028	1170	1315	1566	1767	1976	2186
	Flat (S=3D)	721	829	966	1120	1305	1499	1706	1994	2274	2563	2865

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	484	557	639	732	836	942	1061	1218	1361	1505
Pipe		410	466	538	618	711	815	921	1041	1200	1347	1498
In Air	Trefoil	456	523	610	708	820	947	1077	1244	1454	1645	1843
	Flat (S=3D)	563	649	761	888	1033	1203	1378	1574	1851	2106	2376

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)		15	15	15	14	14	14	14	14	14	14	14
Thickness of Insulation Screen (mm)		1	1	1	1	1	1	1	1	1	1	1
Cu-Screen Cross-Sectional Area (mm ²)		95	95	95	95	95	95	95	95	95	95	95
Thickness of Lead Sheath (mm)		2	2	2,2	2,2	2,2	2,4	2,4	2,5	2,6	2,8	2,9
Thickness of Outer Sheath (mm)		3	3	3,2	3,2	3,3	3,5	3,6	3,7	3,9	4,3	4,6
Outer Diameter of Cable (mm)		69	71	75	76	80	85	91	96	103	111	120
Weight of Cable (kg/m)		10,1	10,9	12,5	13,6	15,5	18,2	21,1	23,8	28,7	34	41,3
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)		0,141	0,152	0,165	0,188	0,206	0,224	0,251	0,275	0,304	0,336	0,372
Inductance (mH/km)		0,457	0,435	0,418	0,397	0,38	0,368	0,354	0,345	0,333	0,323	0,313

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	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)		8,6	9,2	10,4	10,8	11,6	13,4	14,7	16,6	19,2	21,8	25,6