



# 190/330 (362) kV

## XLPE Insulated with Lead Sheath

Continuous Current Rating for Single Circuit (A)

### COPPER CONDUCTOR

Cross-Sectional Area ( mm <sup>2</sup> )		800	1000	1200	1600	2000	2500
Direct Buried		1016	1131	1302	1452	1605	1755
Pipe		1005	1121	1292	1448	1606	1764
In Air	Trefoil	1165	1308	1540	1738	1943	2145
	Flat (S=3D)	1408	1603	1868	2125	2407	2676

HDPE pipe diameter = 2D

### ALUMINIUM CONDUCTOR

Cross-Sectional Area ( mm <sup>2</sup> )		800	1000	1200	1600	2000	2500
Direct Buried		810	915	1029	1181	1322	1460
Pipe		801	906	1020	1178	1321	1467
In Air	Trefoil	933	1066	1221	1423	1611	1806
	Flat (S=3D)	1121	1295	1475	1728	1978	2230

HDPE pipe diameter = 2D



CONDUCTOR (Cu)	Cross-Sectional Area (mm <sup>2</sup> )	800	1000	1200	1600	2000	2500
	Shape		Circular	Circular	Segmentalled	Segmentalled	Segmentalled
Diameter (mm)		34	39	43,5	49,5	56	63,5
Thickness of Conductor Screen (mm)		1,2	1,4	1,4	1,5	1,6	1,6
Thickness of Insulation (mm)		28	27	27	27	26	26
Thickness of Insulation Screen (mm)		1,2	1,2	1,2	1,2	1,2	1,2
Thickness of Lead Sheath (mm)		3,5	3,6	3,7	3,9	4,1	4,4
Thickness of Outer Sheath (mm)		4,4	4,5	4,6	4,8	5,2	5,5
Outer Diameter of Cable (mm)		114	118	123	130	136	146
Weight of Cable (kg/m)		27,6	30,6	34,1	39,8	45,6	54,4
Max. DC Cu Conductor Resistance at 20°C (ohm/km)		0,0221	0,0176	0,0151	0,0113	0,009	0,0072
Capacitance (microfarad/km)		0,138	0,155	0,168	0,183	0,206	0,227
Inductance (mH/km)		0,427	0,407	0,394	0,38	0,364	0,353

CONDUCTOR (Al)	Cross-Sectional Area (mm <sup>2</sup> )	800	1000	1200	1600	2000	2500
	Shape		Circular	Circular	Segmentalled	Segmentalled	Segmentalled
Diameter (mm)		34,8	39	43,5	50,2	56,5	63,5
Max. DC Al Conductor Resistance at 20°C (ohm/km)		0,0367	0,0291	0,0247	0,0186	0,0149	0,0127
Weight of Cable (kg/m)		22,8	24,1	26,6	30,4	33,4	38,7