

127/230 (245) kV HV POWER CABLE

Aluminum Sheath



Construction

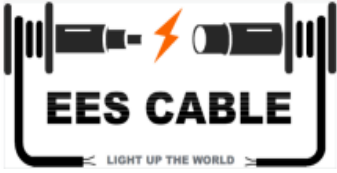
- Copper Conductor
- XLPE Insulation
- Aluminum Sheath
- PE (or PVC) Outer Sheath

Continuous Current Ratings for Single Circuit (A)

Cross-Sectional Area (mm ²)	Direct Buried	Pipe Duct	In Air	
			Trefoil	Flat (S=2D)
400	657	641	757	836
500	745	725	866	962
630	843	822	989	1111
800	943	916	1116	1268
1000	1090	1057	1310	1505
1200	1165	1131	1403	1631
1600	1316	1322	1596	1902
2000	1438	1440	1758	2143
2500	1512	1514	1849	2254

Constructional Data (Nominal Values)

Cross-Sectional Area	Conductor		Thickness of Conductor Screen Approx.	Thickness of Insulation	Thickness of Insulation Screen Approx.	Thickness of Aluminum Sheath	Thickness of Outer Sheath	Outer Diameter of Cable	Weight of Cable	Max. DC Conductor Resistance at 20°C	Capacitance
	Shape	Diameter									
mm ²		mm	mm	mm	mm	mm	mm	mm	kg / m	Ω / km	μF / km
400	Compact Round Stranded	23.2	1.5	23.0	1.3	2.2	4.5	104	11.0	0.0470	0.14
500		26.3	1.5	23.0	1.3	2.3	4.5	108	12.1	0.0366	0.15
630		30.2	1.5	23.0	1.3	2.4	4.5	112	14.2	0.0283	0.17
800		34.0	1.5	23.0	1.3	2.4	4.5	116	15.8	0.0221	0.18
1000	Segment Stranded (Miliken)	34.0	1.5	23.0	1.3	2.4	4.5	116	15.8	0.0221	0.18
1200		41.8	1.5	23.0	1.3	2.6	5.0	126	21.5	0.0151	0.21
1600		48.1	1.5	23.0	1.3	2.7	5.0	133	26.0	0.0113	0.23
2000		54.3	1.5	23.0	1.3	2.8	5.0	139	30.7	0.0090	0.24
2500		63.0	1.5	23.0	1.3	3.0	5.0	148	37.8	0.0072	0.27



127/230 (245) kV HV POWER CABLE

Lead Sheath



Construction

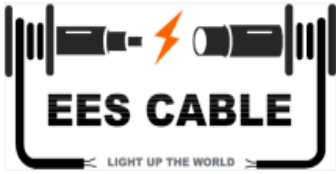
- Copper Conductor ■ XLPE Insulation
- Lead Sheath ■ PE (or PVC) Outer Sheath

Continuous Current Ratings for Single Circuit (A)

Cross-Sectional Area (mm ²)	Direct Buried	Pipe Duct	In Air	
			Trefoil	Flat (S=2D)
400	676	638	793	871
500	770	745	914	1010
630	876	847	1054	1173
800	986	950	1196	1343
1000	1153	1108	1429	1606
1200	1243	1194	1552	1757
1600	1424	1401	1797	2068
2000	1571	1545	2004	2342
2500	1652	1625	2108	2463


Constructional Data (Nominal Values)

Cross-Sectional Area	Conductor		Thickness of Conductor Screen Approx.	Thickness of Insulation	Thickness of Insulation Screen Approx.	Thickness of Lead Sheath	Thickness of Outer Sheath	Outer Diameter of Cable	Weight of Cable	Max. DC Conductor Resistance at 20°C	Capacitance
	Shape	Diameter									
mm ²		mm	mm	mm	mm	mm	mm	mm	kg / m	Ω / km	µF / km
400	Compact Round Stranded	23.2	1.5	23.0	1.3	3.2	4.5	96	17.9	0.0470	0.14
500		26.3	1.5	23.0	1.3	3.3	4.5	100	19.7	0.0366	0.15
630		30.2	1.5	23.0	1.3	3.4	4.5	104	22.1	0.0283	0.17
800		34.0	1.5	23.0	1.3	3.5	4.5	108	24.8	0.0221	0.18
1000	Segment Stranded (Miliken)	38.7	1.5	23.0	1.3	3.6	5.0	114	28.8	0.0176	0.20
1200		41.8	1.5	23.0	1.3	3.9	5.0	118	32.3	0.0151	0.21
1600		48.1	1.5	23.0	1.3	4.1	5.0	124	38.2	0.0113	0.23
2000		54.3	1.5	23.0	1.3	4.2	5.0	130	43.8	0.0090	0.24
2500		63.0	1.5	23.0	1.3	4.4	5.0	148	52.5	0.0072	0.27



127/230 (245) kV HV POWER CABLE

Copper Wire Shield



Construction

- Copper Conductor ■ XLPE Insulation
- Copper Wire Shield ■ PE (or PVC) Outer Sheath

Continuous Current Ratings for Single Circuit (A)

Cross-Sectional Area (mm ²)	Direct Buried	Pipe Duct	In Air	
			Trefoil	Flat (S=2D)
400	668	634	779	863
500	759	719	895	998
630	864	842	1031	1159
800	970	944	1167	1326
1000	1131	1100	1390	1583
1200	1221	1185	1512	1733
1600	1397	1354	1750	2040
2000	1543	1489	1950	2309
2500	1623	1566	2051	2429

Constructional Data (Nominal Values)

Cross-Sectional Area	Conductor		Thickness of Conductor Screen Approx.	Thickness of Insulation	Thickness of Insulation Screen Approx.	Diameter & Number of Copper Wires	Thickness of Outer Sheath	Outer Diameter of Cable	Weight of Cable	Max. DC Conductor Resistance at 20°C	Capacitance
	Shape	Diameter									
mm ²		mm	mm	mm	mm	mm x No.	mm	mm	kg / m	Ω / km	µF / km
400	Compact Round Stranded	23.2	1.5	23.0	1.3	1.5 x 80	4.5	91	10.0	0.0470	0.14
500		26.3	1.5	23.0	1.3	1.5 x 80	4.5	94	11.2	0.0366	0.15
630		30.2	1.5	23.0	1.3	1.5 x 80	4.5	98	12.8	0.0283	0.17
800		34.0	1.5	23.0	1.3	1.5 x 80	4.5	102	14.8	0.0221	0.18
1000	Segment Stranded (Miliken)	38.7	1.5	23.0	1.3	1.5 x 80	5.0	107	17.2	0.0176	0.20
1200		41.8	1.5	23.0	1.3	1.5 x 80	5.0	110	19.2	0.0151	0.21
1600		48.1	1.5	23.0	1.3	1.5 x 80	5.0	116	23.3	0.0113	0.23
2000		54.3	1.5	23.0	1.3	1.5 x 80	5.0	123	27.6	0.0090	0.24
2500		63.0	1.5	23.0	1.3	1.5 x 80	5.0	132	33.9	0.0072	0.27