

220/400 (420) kV HV POWER CABLE

Aluminum Sheath



Construction

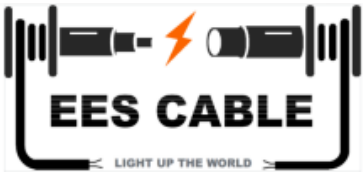
- Copper Conductor
- XLPE Insulation
- Aluminum Sheath
- PE (or PVC) Outer Sheath

Continuous Current Ratings for Single Circuit (A)

Cross-Sectional Area (mm ²)	Direct Buried	Pipe Duct	In Air	
			Trefoil	Flat (S=2D)
630	825	812	967	1081
800	920	907	1090	1231
1000	1062	1046	1279	1458
1200	1139	1120	1372	1581
1600	1292	1304	1569	1842
2000	1410	1422	1711	2067
2500	1480	1493	1796	2170
3000	1570	1582	1904	2300

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
630	Compact Round Stranded	30.2	1.5	29.0	1.3	2.6	6	128	17.5	0.0283	0.14
800		34.0	1.5	29.0	1.3	2.7	6	132	19.6	0.0221	0.15
1000	Segment Stranded (Miliken)	38.7	1.5	29.0	1.3	2.8	6	138	22.5	0.0176	0.17
1200		41.8	1.5	29.0	1.3	2.8	6	141	24.6	0.0151	0.18
1600		48.1	1.5	29.0	1.3	3.0	6	150	29.9	0.0113	0.19
2000		54.3	1.5	29.0	1.3	3.1	6	157	34.7	0.0090	0.20
2500		63.0	1.5	29.0	1.3	3.3	6	167	42.0	0.0072	0.23
3000		69.0	1.5	29.0	1.3	3.3	6	174	46.7	0.0060	0.24



220/400 (420) 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)
630	856	819	1024	1131
800	960	925	1161	1291
1000	1122	1093	1385	1542
1200	1208	1178	1501	1683
1600	1380	1375	1734	1971
2000	1520	1513	1926	2231
2500	1596	1588	2022	2342
3000	1691	1683	2143	2483

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
630	Compact Round	30.2	1.5	29.0	1.3	3.5	6.0	118	27.0	0.0283	0.14
800	Stranded	34.0	1.5	29.0	1.3	3.6	6.0	122	28.6	0.0221	0.15
1000		38.7	1.5	29.0	1.3	3.8	6.0	127	33.5	0.0176	0.17
1200		41.8	1.5	29.0	1.3	3.9	6.0	131	36.0	0.0151	0.18
1600	Segment Stranded	48.1	1.5	29.0	1.3	4.2	6.0	140	43.1	0.0113	0.19
2000	(Miliken)	54.3	1.5	29.0	1.3	4.4	6.0	146	50.0	0.0090	0.20
2500		63.0	1.5	29.0	1.3	4.5	6.0	153	57.0	0.0072	0.23
3000		69.0	1.5	29.0	1.3	3.3	6.0	174	64.1	0.0060	0.24