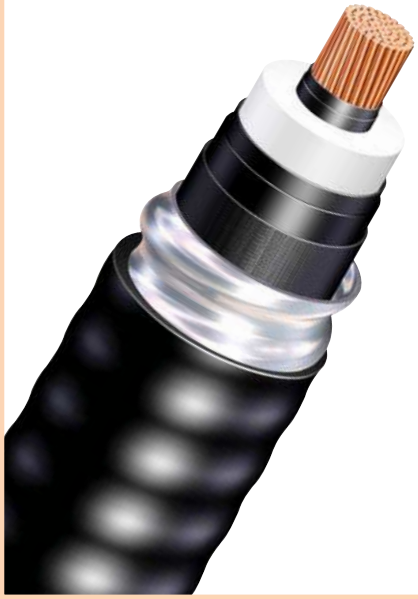
290/500 (525) kV HV POWER CABLE

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)
800	910	890	1080	1221
1000	1052	1036	1270	1447
1200	1128	1110	1361	1565
1600	1281	1284	1555	1825
2000	1400	1400	1700	2050
2500	1470	1470	1785	2150
3000	1560	1558	1895	2280

Constructional Data (Nominal Values)

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℃	Capacitance
Cross-Sectional Area	Shape	Diameter									
mm^2		mm	mm	mm	mm	mm	mm	mm	kg / m	Ω / km	μF / km
800	Compact Round Stranded	34.0	2.5	34.0	2.0	3.0	6	148	24.6	0.0221	0.14
1000	Segment Stranded (Miliken)	38.7	2.5	32.0	2.0	3.0	6	146	26.2	0.0176	0.16
1200		41.8	2.0	32.0	2.0	3.0	6	150	28.6	0.0151	0.16
1600		48.1	2.0	30.0	2.0	3.1	6	153	32.1	0.0113	0.19
2000		54.3	2.0	30.0	2.0	3.2	6	158	36.8	0.0090	0.20
2500		63.0	2.0	30.0	2.0	3.3	6	168	43.6	0.0072	0.23
3000		69.0	2.0	30.0	2.0	3.5	6	178	48.8	0.0060	0.24

290/500 (525) 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)
800	950	915	1151	1280
1000	1110	1082	1375	1522
1200	1188	1167	1475	1658
1600	1360	1360	1710	1946
2000	1500	1495	1900	2206
2500	1575	1570	1995	2316
3000	1670	1665	2115	2455

Constructional Data (Nominal Values)

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℃	Capacitance
Cross-Sectional Area	Shape	Diameter									
mm^2		mm	mm	mm	mm	mm	mm	mm	kg / m	Ω / km	μF / km
800	Compact Round Stranded	34.0	2.5	34.0	2.0	4.3	6.0	136	37.5	0.0221	0.14
1000	Segment Stranded (Miliken)	38.7	2.5	32.0	2.0	4.3	6.0	134	38.7	0.0176	0.16
1200		41.8	2.0	32.0	2.0	4.4	6.0	137	41.6	0.0151	0.16
1600		48.1	2.0	30.0	2.0	4.5	6.0	140	46.0	0.0113	0.19
2000		54.3	2.0	30.0	2.0	4.5	6.0	147	51.7	0.0090	0.20
2500		63.0	2.0	30.0	2.0	4.9	6.0	154	60.0	0.0072	0.23
3000		69.0	2.0	30.0	2.0	5.1	6.0	162	68.1	0.0060	0.24