

36/66 (72.5) kV HV POWER CABLE

Aluminum Sheath



Construction

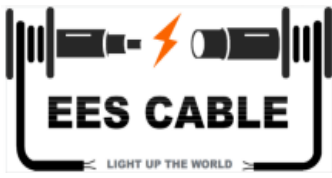
- Copper Conductor
- XLPE Insulation
- Aluminum Sheath
- PE (or PVC) Outer Sheath

Continuous Current Ratings for Single Circuit (A)

Cross-Sectional Area (mm ²)	Direct Buried	Pipe Duct	In Air	
			Trefoil	Flat (S=2D)
240	524	491	598	671
300	592	556	682	770
400	671	631	781	888
500	762	714	894	1025
630	878	808	1023	1187
800	965	928	1150	1355
1000	1119	1075	1361	1615
1200	1198	1146	1460	1745
1600	1352	1357	1654	2030
2000	1468	1475	1800	2273

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
240	Compact Round Stranded	18.1	1.0	11.0	1.0	1.6	3.5	69	5.5	0.0754	0.20
300		20.4	1.0	11.0	1.0	1.6	3.5	72	6.3	0.0601	0.21
400		23.2	1.0	11.0	1.0	1.7	3.5	75	7.2	0.0470	0.23
500		26.3	1.0	11.0	1.0	1.8	4.0	79	8.6	0.0366	0.25
630		30.2	1.0	11.0	1.0	1.8	4.0	83	10.1	0.0283	0.28
800		34.0	1.0	11.0	1.0	1.9	4.0	87	12.0	0.0221	0.30
1000	Segment Stranded (Miliken)	38.7	1.0	11.0	1.0	2.0	4.0	92	14.4	0.0176	0.33
1200		41.8	1.0	11.0	1.0	2.1	4.5	98	16.7	0.0151	0.36
1600		48.1	1.0	11.0	1.0	2.2	4.5	105	20.9	0.0113	0.40
2000		54.3	1.0	11.0	1.0	2.4	4.5	112	25.4	0.0090	0.44



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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)
240	535	525	621	706
300	606	567	710	810
400	691	646	822	942
500	787	733	951	1098
630	898	833	1096	1274
800	1008	958	1243	1462
1000	1184	1121	1505	1759
1200	1282	1208	1648	1938
1600	1469	1434	1906	2282
2000	1626	1585	2130	2597

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
240	Compact Round Stranded	18.1	1.0	11.0	1.0	2.1	3.5	62	8.1	0.0754	0.20
300		20.4	1.0	11.0	1.0	2.2	3.5	64	9.1	0.0601	0.21
400		23.2	1.0	11.0	1.0	2.3	3.5	67	10.5	0.0470	0.23
500		26.3	1.0	11.0	1.0	2.4	4.0	72	12.5	0.0366	0.25
630		30.2	1.0	11.0	1.0	2.4	4.0	76	14.2	0.0283	0.28
800		34.0	1.0	11.0	1.0	2.6	4.0	80	16.9	0.0221	0.30
1000	Segment Stranded (Miliken)	38.7	1.0	11.0	1.0	2.7	4.0	85	19.9	0.0176	0.33
1200		41.8	1.0	11.0	1.0	2.8	4.5	91	23.0	0.0151	0.36
1600		48.1	1.0	11.0	1.0	3.0	4.5	97	28.0	0.0113	0.40
2000		54.3	1.0	11.0	1.0	3.2	4.5	104	33.4	0.0090	0.44

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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)
240	530	483	606	692
300	599	544	693	795
400	683	616	802	925
500	780	729	929	1075
630	886	828	1066	1247
800	997	929	1210	1432
1000	1173	1087	1473	1728
1200	1270	1173	1611	1894
1600	1465	1375	1883	2245
2000	1627	1530	2111	2556

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
240	Compact Round Stranded	18.1	1.0	11.0	1.0	1.2 x 40	3.5	58	4.4	0.0754	0.20
300		20.4	1.0	11.0	1.0	1.2 x 40	3.5	60	5.1	0.0601	0.21
400		23.2	1.0	11.0	1.0	1.2 x 40	3.5	63	5.9	0.0470	0.23
500		26.3	1.0	11.0	1.0	1.2 x 40	4.0	66	7.2	0.0366	0.25
630		30.2	1.0	11.0	1.0	1.2 x 40	4.0	71	8.6	0.0283	0.28
800		34.0	1.0	11.0	1.0	1.2 x 40	4.0	75	10.4	0.0221	0.30
1000	Segment Stranded (Miliken)	38.7	1.0	11.0	1.0	1.2 x 40	4.0	80	12.7	0.0176	0.33
1200		41.8	1.0	11.0	1.0	1.2 x 40	4.5	85	14.7	0.0151	0.36
1600		48.1	1.0	11.0	1.0	1.2 x 40	4.5	91	18.7	0.0113	0.40
2000		54.3	1.0	11.0	1.0	1.2 x 40	4.5	97	22.7	0.0090	0.44