

## Single Core Aluminium & Copper Conductor, XLPE Insulated, Unarmoured & Armoured Cable

**Voltage Grade : 3.8 / 6.6 kV (E)**

### WEIGHT & DIMENSIONS

Nominal Size of Conductor	Nominal Thickness of XLPE Insulation	Unarmoured Cable				Round Wire Armoured Cable					CURRENT RATING			
		Nom. Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Nom. dimension of Al. Round Wire	Min. Thickness of PVC Outer Sheath	Approx. Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Alluminium		Copper	
											In ground at 30°C	In air at 40°C	In ground at 30°C	In air at 40°C
Sq.mm.	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps.	Amps.	Amps.	Amps.
25	2.8	1.8	18.00	340	485	1.6	1.40	22.00	560	705	97	105	125	140
35	2.8	2.0	20.00	440	645	1.6	1.40	23.50	635	840	118	130	150	170
50	2.8	2.0	21.00	500	780	1.6	1.40	24.50	705	985	136	155	178	198
70	2.8	2.0	23.50	615	1020	1.6	1.40	26.00	815	1215	166	195	218	258
95	2.8	2.0	25.00	725	1285	1.6	1.40	28.00	935	1495	198	240	258	318
120	2.8	2.0	27.50	870	1575	1.6	1.40	30.00	1070	1775	225	277	298	368
150	2.8	2.0	28.50	985	1855	1.6	1.56	31.00	1190	2060	253	318	332	422
185	2.8	2.0	30.50	1135	2220	1.6	1.56	33.00	1355	2445	285	370	378	490
240	2.8	2.2	33.50	1380	2815	2.0	1.56	36.50	1700	3135	330	440	440	580
300	3.0	2.2	36.50	1655	3450	2.0	1.56	39.00	1955	3755	373	509	495	665
400	3.3	2.2	41.00	2080	4375	2.0	1.72	43.00	2370	4665	427	600	585	805
500	3.5	2.4	44.00	2490	5430	2.0	1.88	47.00	2850	5795	485	700	630	900
630	3.5	2.4	48.00	2975	6785	2.0	1.88	50.50	3390	7200	551	817	705	1030
800	3.5	2.6	53.50	3620	8505	2.5	2.04	56.50	4235	9120	625	970	755	1060
1000	3.6	2.8	57.50	4310	10430	2.5	2.20	62.50	5120	11240	692	1100	855	1225

**“KEI” Single Core Aluminium & Copper Conductor, XLPE Insulated,  
Unarmoured & Armoured Cable Conforming to IS 7098 Part-2/1985**

**Voltage Grade : 6.35 / 11kV (E), 6.6/6.6 kV (UE)**

**WEIGHT & DIMENSIONS**

Nominal Size of Conductor	Nominal Thickness of XLPE Insulation	Unarmoured Cable				Round Wire Armoured Cable					CURRENT RATINGS			
		Nom. Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Nom. dimension of Al. Round Wire	Min. Thickness of PVC Outer Sheath	Approx. Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Alluminium		Copper	
Sq.mm.	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	In ground at 30°C	In air at 40°C	In ground at 30°C	In air at 40°C
											Amps.	Amps.	Amps.	Amps.
35	3.6	2.0	21.00	455	660	1.6	1.40	25.00	710	915	115	134	160	170
50	3.6	2.0	22.00	515	790	1.6	1.40	26.00	780	1060	135	160	185	215
70	3.6	2.0	23.50	605	1010	1.6	1.40	27.50	890	1295	165	200	230	255
95	3.6	2.0	25.00	715	1275	1.6	1.40	29.50	1020	1580	197	245	270	305
120	3.6	2.0	27.50	830	1535	1.6	1.56	32.00	1190	1895	224	286	300	350
150	3.6	2.0	28.00	915	1785	1.6	1.56	32.50	1285	2155	251	324	345	395
185	3.6	2.2	30.50	1090	2175	2.0	1.56	35.50	1560	2645	283	373	385	455
240	3.6	2.2	33.00	1300	2730	2.0	1.56	38.00	1805	3240	328	445	400	530
300	3.6	2.2	35.00	1500	3300	2.0	1.56	40.00	2040	3840	371	513	435	605
400	3.6	2.2	38.00	1795	4090	2.0	1.72	43.50	2420	4710	425	603	490	710
500	3.6	2.4	41.50	2195	5135	2.0	1.88	47.00	2870	5810	484	705	565	800
630	3.6	2.4	45.00	2655	6465	2.0	1.88	51.00	3405	7215	550	819	620	880
800	3.6	2.6	51.00	3315	8195	2.5	2.04	56.50	4250	9135	623	965	750	1060
1000	3.6	2.8	55.50	4015	10135	2.5	2.20	62.50	5120	11240	690	1092	850	1225

**“KEI” Single Core Aluminium & Copper Conductor, XLPE Insulated,  
Unarmoured & Armoured Cable Conforming to IS 7098 Part-2/1985**

**Voltage Grade : 11 / 11 kV (UE)**

**WEIGHT & DIMENSIONS**

Nominal Size of Conductor	Nominal Thickness of XLPE Insulation	Unarmoured Cable				Round Wire Armoured Cable					CURRENT RATING			
		Nom. Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Nom. dimension of Al. Round Wire	Min. Thickness of PVC Outer Sheath	Approx. Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Aluminium		Copper	
											In ground at 30°C	In air at 40°C	In ground at 30°C	In air at 40°C
Sq.mm.	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps.	Amps.	Amps.	Amps.
35	5.5	2.0	24.50	605	810	1.6	1.40	29.00	900	1105	115	137	165	175
50	5.5	2.0	25.50	665	945	1.6	1.56	30.50	1005	1285	136	165	190	220
70	5.5	2.0	27.50	770	1170	1.6	1.56	32.00	1130	1530	166	206	235	260
95	5.5	2.0	29.00	890	1445	1.6	1.56	33.50	1270	1825	198	250	275	310
120	5.5	2.2	31.50	1045	1750	2.0	1.56	37.00	1535	2240	225	291	305	355
150	5.5	2.2	32.50	1135	2010	2.0	1.56	37.50	1640	2510	252	330	350	400
185	5.5	2.2	34.00	1290	2380	2.0	1.56	39.50	1820	2910	285	379	390	460
240	5.5	2.2	36.50	1515	2945	2.0	1.72	42.50	2115	3545	330	450	405	535
300	5.5	2.2	38.50	1730	3525	2.0	1.72	44.50	2360	4160	373	518	440	610
400	5.5	2.4	42.00	2080	4375	2.0	1.88	48.00	2785	5080	427	608	495	715
500	5.5	2.4	45.00	2460	5400	2.0	1.88	51.00	3210	6150	486	709	570	805
630	5.5	2.6	49.00	2990	6800	2.5	2.04	56.00	3955	7760	553	822	625	885
800	5.5	2.8	55.50	3690	8570	2.5	2.20	61.00	4725	9610	628	964	755	1065
1000	5.5	2.8	59.00	4360	10480	2.5	2.20	66.00	5535	11655	697	1090	855	1230

**“KEI” Single Core Aluminium & Copper Conductor, XLPE Insulated,  
Unarmoured & Armoured Cable Conforming to IS 7098 Part-2/1985**

**Voltage Grade : 12.7 / 22 kV (E)**

**WEIGHT & DIMENSIONS**

Nominal Size of Conductor  Sq.mm.	Nominal Thickness of XLPE Insulation  mm	Unarmoured Cable				Round Wire Armoured Cable					CURRENT RATING			
		Nom. Thickness of PVC Outer Sheath  mm	Approx. Overall Diameter of Cable  mm	Al. Approx. Weight of Cable  Kg./Km	Cu. Approx. Weight of Cable  Kg./Km	Nom. dimension of Al. Round Wire  mm	Min. Thickness of PVC Outer Sheath  mm	Approx. Diameter of Cable  mm	Al. Approx. Weight of Cable  Kg./Km	Cu. Approx. Weight of Cable  Kg./Km	Aluminium		Copper	
											In ground at 30°C  Amps.	In air at 40°C  Amps.	In ground at 30°C  Amps.	In air at 40°C  Amps.
35	6	2.0	26.00	660	870	1.60	1.40	30.00	980	1185	114	143	168	178
50	6	2.0	27.00	730	1010	1.60	1.56	31.50	1085	1360	134	167	193	223
70	6	2.0	28.50	835	1235	1.60	1.56	33.50	1210	1610	164	207	238	263
95	6	2.2	31.00	985	1545	2.00	1.56	36.00	1465	2025	195	253	278	313
120	6	2.2	33.00	1120	1825	2.00	1.56	38.50	1630	2335	221	291	308	358
150	6	2.2	33.50	1215	2085	2.00	1.56	39.00	1735	2605	250	333	353	403
185	6	2.2	35.50	1370	2460	2.00	1.56	41.00	1920	3010	280	380	393	463
240	6	2.2	38.00	1600	3030	2.00	1.72	44.00	2220	3650	326	450	408	538
300	6	2.2	40.00	1815	3615	2.00	1.72	46.00	2520	4315	367	521	443	613
400	6	2.4	43.50	2180	4475	2.00	1.88	49.50	2910	5200	420	616	498	718
500	6	2.6	47.00	2610	5555	2.50	2.04	54.00	3540	6480	478	709	573	808
630	6	2.6	50.50	3105	6915	2.50	2.04	57.50	4100	7905	545	828	628	888
800	6	2.8	57.00	3815	8700	2.50	2.20	62.50	4870	9750	618	975	758	1068
1000	6	3.0	61.00	4555	10675	2.50	2.36	68.00	5765	11885	685	1107	858	1233



**“KEI” Single Core Aluminium & Copper Conductor, XLPE Insulated,  
Unarmoured & Armoured Cable Conforming to IS 7098 Part-2/1985**

**Voltage Grade : 19 / 33 kV (E)**

**WEIGHT & DIMENSIONS**

Nominal Size of Conductor	Nominal Thickness of XLPE Insulation	Unarmoured Cable				Round Wire Armoured Cable					CURRENT RATING			
		Nom. Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Nom. dimension of Al. Round Wire	Min. Thickness of PVC Outer Sheath	Approx. Diameter of Cable	Al. Approx. Weight of Cable	Cu. Approx. Weight of Cable	Aluminium		Copper	
											In ground at 30°C	In air at 40°C	In ground at 30°C	In air at 40°C
Sq.mm.	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps.	Amps.	Amps.	Amps.
50	8.8	2.2	34.00	1065	1345	2.00	1.56	39.00	1590	1865	135	170	180	205
70	8.8	2.2	35.50	1185	1590	2.00	1.56	40.50	1730	2130	165	212	215	250
95	8.8	2.2	37.00	1325	1885	2.00	1.72	43.00	1935	3495	196	258	255	310
120	8.8	2.2	39.00	1480	2185	2.00	1.72	45.00	2125	2830	223	297	290	350
150	8.8	2.2	40.00	1580	2450	2.00	1.72	45.50	2235	3105	250	339	330	410
185	8.8	2.4	42.00	1800	2885	2.00	1.72	48.00	2480	3570	282	386	380	460
240	8.8	2.4	44.50	2050	3485	2.00	1.88	50.50	2800	4230	326	464	435	545
300	8.8	2.6	47.00	2340	4135	2.50	2.04	54.00	3270	5065	369	526	485	620
400	8.8	2.6	50.00	2690	4985	2.50	2.04	57.00	3670	5965	423	617	550	730
500	8.8	2.8	53.50	3155	6100	2.50	2.20	60.50	4230	7170	481	713	620	830
630	8.8	2.8	57.00	3690	7495	2.50	2.20	64.00	4825	8635	549	832	695	935
800	8.8	3.0	63.50	4465	9350	2.50	2.36	69.00	5625	10505	620	978	760	1085
1000	8.8	3.2	67.50	5255	11375	3.15	2.52	76.00	6850	12970	686	1110	860	1235