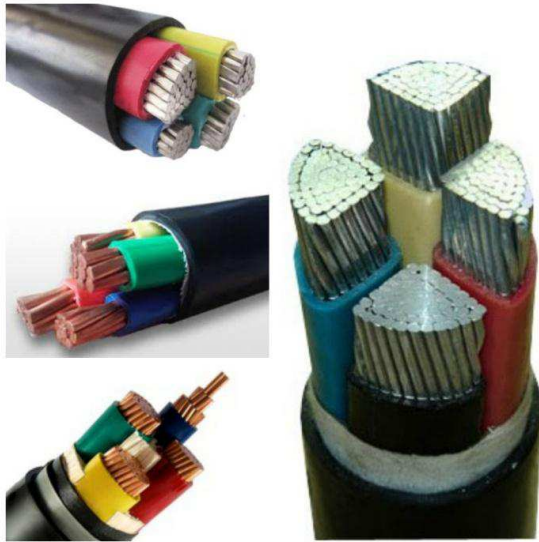




# 0.6/1kV Al-Cu PVC Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored PVC Power Cable



## SPECIFICATIONS AND STANDARDS:

1. IEC60502-1; VDE 0276-603 ; ICEA S-95-658 ; AS/NZS 5000.1; BS; JIS.
2. Rated Voltage: 0.6/1kV
3. Number of cores : One core, two cores, three cores, 3+1 cores, four cores, 3+2 cores, 4+1 cores, Five cores.

## APPLICATIONS:

With the characteristics of stable capability, advanced technology, broad material resources, low price, good flexible and easy to lay and maintain, the PVC Insulated and Sheathed Power Cable are suitable to be laid for distribution line with A.C.50HZ and rated voltage up to 1kV.

## PROPERTY:

1. The long-term permissible operation temperature of the conductor shall not be higher than 70°C
2. Conductor maximum short circuit (less than 5 second) temperature shall not be higher than 160°C
3. The cable is not limited by drop in level when being laid, and the environment temperature shall not be lower than 0°C
4. Perfect chemical stability, resistant against acids, alkalis, grease and organic solvents, and flame retardant.
5. Light weight, perfect bending properties, installed and maintained easily and conveniently.

## CONSTRUCTION:

0.6/1kV PVC Insulated PVC Sheathed Power Cable	Conductor		Insulation	Armor				Outer Sheath	
	Aluminum	Copper	PVC	SW	ST	DST	AW	PVC	PE
Cu/PVC/PVC		P	P	---	---	---	---	P	
Cu/PVC/PE		P	P	---	---	---	---		P
Al/PVC/PVC	P		P	---	---	---	---	P	
Al/PVC/PE	P		P	---	---	---	---		P
Cu/PVC/STA/PVC		P	P	---	P	---	---	P	
Cu/PVC/STA/PE		P	P	---	P	---	---		P
Al/PVC/STA/PVC	P		P	---	P	---	---	P	
Al/PVC/STA/PE	P		P	---	P	---	---		P
Cu/PVC/DSTA/PVC		P	P	---	---	P	---	P	
Cu/PVC/DSTA/PE		P	P	---	---	P	---		P
Al/PVC/DSTA/PVC	P		P	---	---	P	---	P	
Al/PVC/DSTA/PE	P		P	---	---	P	---		P
Cu/PVC/SWA/PVC		P	P	P	---	---	---	P	



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Cu/PVC/SWA/PE		P	P	P	---	---	---		P
Al/PVC/SWA/PVC	P		P	P	---	---	---	P	
Al/PVC/SWA/PE	P		P	P	---	---	---		P
Cu/PVC/AWA/PVC		P	P	---	---	---	P	P	
Cu/PVC/AWA/PE		P	P	---	---	---	P		P
Al/PVC/AWA/PVC	P		P	---	---	---	P	P	
Al/PVC/AWA/PE	P		P	---	---	---	P		P

Armor Material : SW=steel wire, ST=steel tape, DST=double steel tape, AW=aluminum wire

## Technical Parameter of Low Voltage 0.6/1kV PVC Power Cable :

### 1) Single Core, Circular Compacted Al or Cu/PVC/PVC Un-armoured or Armoured Power Cable.

Cross Section of Conductor	No. of Wires	Thickness of Insulation	Un-armoured				Armoured					
			Thickness of Sheath	Overall Dia.	Approx.Net Weight		Thickness of Bedding	Thickness of Al Tape	Thickness of Sheath	Overall Dia.	Approx.Net Weight	
					Al Conductor	Cu Conductor					Al Conductor	Cu Conductor
mm <sup>2</sup>	-	mm	mm	mm	kg/km	kg/km	mm	mm	mm	mm	kg/km	kg/km
1x1.5	1	0.8	1.4	5.8	-	51	-	-	-	-	-	-
1x 2.5	1	0.8	1.4	6.2	-	64	-	-	-	-	-	-
1x 4	1	1	1.4	7.1	-	88	-	-	-	-	-	-
1x 6	7	1	1.4	7.8	78	114	-	-	-	-	-	-
1x 10	7	1	1.4	8.6	96	159	1	0.5	1.8	13.4	234	295
1x 16	7	1	1.4	9.6	123	222	1	0.5	1.8	14.4	274	370
1x 25	7	1.2	1.4	11.2	172	328	1	0.5	1.8	16	344	496
1x 35	7	1.2	1.4	12.2	209	428	1	0.5	1.8	17	393	606
1x 50	19	1.4	1.4	13.9	271	565	1	0.5	1.8	18.7	478	764
1x 70	19	1.4	1.5	15.9	356	818	1	0.5	1.8	20.5	582	1020
1x 95	19	1.6	1.5	18	471	1041	1	0.5	1.8	22.6	717	1291
1x 120	37	1.6	1.6	19.6	563	1307	1	0.5	1.8	24	822	1545
1x 150	37	1.8	1.6	21.3	684	1592	1	0.5	1.8	25.4	952	1857
1x 185	37	2	1.7	23.9	840	1985	1	0.5	1.8	27.9	1136	2236
1x 240	61	2.2	1.8	27	1071	2533	1	0.5	1.9	31	1404	2877
1x 300	61	2.4	1.9	29.6	1317	3162	1.2	0.5	2.1	34.3	1722	3551
1x 400	61	2.6	2	33.2	1666	4120	1.2	0.5	2.2	37.6	2114	4488
1x 500	61	2.8	2.2	37.5	2089	5163	1.2	0.5	2.3	42.1	2592	5683
1x 630	61	2.8	2.3	41.2	2581	6447	1.4	0.5	2.4	46.3	3184	7060



# 0.6/1kV Al-Cu PVC Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored PVC Power Cable

## 2) Multi Cores, Sector Compacted Al or Cu/PVC/PVC Un-armoured Power Cable

Number of Cores	Cross-Section of Conductor	No. Of Wires	Thickness of Insulation	Thickness of Sheath	Overall Diameter	Approx. Net Weight	
						Al Conductor	Cu Conductor
-	mm <sup>2</sup>	-	mm	mm	mm	kg/km	kg/km
Three Cores	3x35	16	1.2	1.8	21.9	601	1280
	3x50	18	1.4	1.8	26.5	829	1732
	3x70	18	1.4	1.9	29.2	1067	2367
	3x95	36	1.6	2	32.9	1409	2317
	3x120	36	1.6	2.1	36.2	1705	3983
	3x150	36	1.8	2.2	38.8	2045	4872
	3x185	36	2	2.4	44.8	2596	6077
	3x240	60	2.2	2.6	51.5	3353	7953
	3x300	60	2.4	2.7	54.9	6069	9820
3+1 Cores / Four Cores with Reduced Neutral	3x35+16	16-7	1.2-1	1.8	25.5	764	1107
	3x50+25	18-16	1.4-1.2	1.9	28.7	982	1410
	3x70+35	18-16	1.4-1.2	2.0	32	1278	1733
	3x95+50	36-18	1.6-1.4	2.2	37.8	1711	2656
	3x120+70	36-18	1.6-1.4	2.3	40.5	2065	3137
	3x150+70	36-18	1.8-1.4	2.4	44.8	2480	3660
	3x185+95	36-36	2-1.6	2.6	49.7	3086	4345
	3x240+120	60-36	2.2-1.6	2.8	56	3894	5441
	3x300+150	60-36	1.4-1.8	2.9	60.3	4834	6494
Four Cores	4x25	16	1.2	1.8	22.5	644	1286
	4x35	16	1.2	1.8	24.6	799	1696
	4x50	18	1.4	1.8	28.6	1071	2275
	4x70	18	1.4	2	31.6	1387	3120
	4x95	36	1.6	2.1	35.9	1850	4262
	4x120	36	1.6	2.2	38.8	2209	5247
	4x150	36	1.8	2.3	43.1	2714	6483
	4x185	36	2	2.5	48.7	3403	8045
	4x240	60	2.2	2.7	53.6	4290	10422
	4x300	60	2.4	2.9	58.8	5302	12969



# 0.6/1kV Al-Cu PVC Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored PVC Power Cable

## 3) Multi Cores, Circular Compacted Al or Cu/PVC/PVC Un-armoured Power Cable

Number of Cores	Cross-Section of Conductor mm <sup>2</sup>	No. Of Wires	Thickness of Insulation mm	Thickness of Sheath mm	Overall Diameter mm	Approx. Net Weight	
						Al Conductor kg/km	Cu Conductor kg/km
Three Cores	3x10	7	1	1.8	16.6	281	465
	3x16	7	1	1.8	18.7	387	679
	3x25	7	1.2	1.8	22.2	536	996
	3x35	7	1.2	1.8	24.4	665	1311
	3x50	19	1.4	1.9	28.1	863	1729
	3x70	19	1.4	2	32.3	1153	2480
	3x95	19	1.6	2.1	37.1	1563	3301
	3x120	37	1.6	2.3	40.4	1850	4040
	3x150	37	1.8	2.4	43.9	2258	5000
	3x185	37	2	2.5	49.2	2819	6151
	3x240	61	2.2	2.8	55.9	3577	8040
	3x300	61	2.4	3	62.1	4413	9955
	3x400	61	2.6	3.2	69.3	5512	12705
Four Cores	4x10	7	1	1.8	18.1	343	589
	4x16	7	1	1.8	20.5	487	874
	4x25	7	1.2	1.8	24.3	677	1291
	4x35	7	1.2	1.8	26.8	821	1681
	4x50	19	1.4	2	31.2	1118	2273
	4x70	19	1.4	2.1	35.8	1494	3264
	4x95	19	1.6	2.3	41.2	1993	4312
	4x120	37	1.6	2.4	44.8	2370	5291
	4x150	37	1.8	2.5	48.7	2959	6615
	4x185	37	2	2.7	54.7	3601	8044
	4x240	61	2.2	3	62.1	4596	10547
	4x300	61	2.4	3.2	69.1	5614	13004



# 0.6/1kV Al-Cu PVC Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored PVC Power Cable

## 4) Multi Cores, Sector Compacted Al or Cu/PVC/PVC Armoured Power Cable

Cross Section of Conductor	No. of Wires	Thickness of Insulation	Thickness of Inner Sheath	Thickness of Steel		Thickness of Sheath		Overall Diameter		Approx. Net Weight					
				of Tape	Of Wires	STA	SWA	STA	SWA	STA	SWA	STA		SWA	
				mm	No./mm	mm	mm	mm	mm	mm	mm	Al Conductor	Cu Conductor	Al Conductor	Cu Conductor
mm <sup>2</sup>	-	mm	mm	mm	No./mm	mm	mm	mm	mm	kg/km	kg/km	kg/km	kg/km		
<b>Three Cores</b>															
3x35	16	1.2	1	0.2	38/1.6	1.8	1.9	24.7	28.2	912	1591	1447	2126		
3x50	18	1.4	1	0.2	46/1.6	1.9	2	29.3	32.8	1202	2105	1842	2745		
3x70	18	1.4	1.2	0.2	41/2.0	2.0	2.2	32.5	37.1	1520	2820	2475	3775		
3x95	36	1.6	1.2	0.5	46/2.0	2.1	2.3	36.5	40.8	2241	4049	2989	4797		
3x120	36	1.6	1.2	0.5	50/2.0	2.2	2.4	39.8	44.1	2617	4895	3435	5713		
3x150	36	1.8	1.2	0.5	43/2.5	2.3	2.5	42.4	47.8	3019	5846	4258	7085		
3x185	36	2	1.4	0.5	50/2.5	2.5	2.7	48.8	54.2	3783	7264	5219	8700		
3x240	60	2.2	1.6	0.5	58/2.5	2.8	2.9	56	61.3	4790	9390	6444	11044		
3x300	60	2.4	1.6	0.5	61/2.5	2.9	3.1	59.3	64.7	5594	11345	7458	13209		
<b>3+1 Cores / Four Cores with Reduced Neutral</b>															
3x35+16	16-7	1.2-1	1	0.2	43/1.6	1.9	2	28.5	31.3	1107	1528	1705	2469		
3x50+25	18-16	1.4-1.2	1.2	0.2	40/2.0	2.0	2.1	32.2	36.1	1410	2044	2326	3388		
3x70+35	18-16	1.4-1.2	1.2	0.2	44/2.0	2.0	2.2	35.2	39.3	1733	2801	2762	4285		
3x95+50	36-18	1.6-1.4	1.2	0.5	41/2.5	2.3	2.5	42.5	46.3	2656	3820	3816	5925		
3x120+70	36-18	1.6-1.4	1.4	0.5	45/2.5	2.4	2.6	45.6	49.4	3137	4777	4391	7103		
3x150+70	36-18	1.8-1.4	1.4	0.5	49/2.5	2.6	2.7	49.9	53.6	3660	5709	5043	8272		
3x185+95	36-36	2-1.6	1.4	0.5	55/2.5	2.6	2.9	54.5	58.5	3445	7171	5902	9987		
3x240+120	60-36	2.2-1.6	1.6	0.5	62/2.5	2.9	3.1	61.6	65.3	5441	9272	7174	12552		
3x300+150	60-36	1.4-1.8	1.6	0.5	67/2.5	3.8	3.2	65.9	69.6	6494	11546	8355	15067		
<b>Four Cores</b>															
4x25	16	1.2	1	0.2	38/1.6	1.8	1.9	25.3	28	934	1576	1450	2092		
4x35	16	1.2	1	0.2	41/1.6	1.8	1.9	27.4	30.2	1120	2017	1681	2578		
4x50	18	1.4	1	0.2	39/2.0	2	2.1	31.6	35.6	1454	2658	2336	3540		
4x70	18	1.4	1.2	0.5	43/2.0	2.1	2.2	36.3	39	2183	3916	2840	4573		
4x95	36	1.6	1.2	0.5	50/2.0	2.3	2.4	40.6	44.1	2748	5160	3545	5957		
4x120	36	1.6	1.4	0.5	42/2.5	2.4	2.5	43.9	47.2	3237	6214	4334	7372		
4x150	36	1.8	1.4	0.5	48/2.5	2.5	2.6	48.3	52	3853	7622	5148	8917		
4x185	36	2	1.6	0.5	54/2.5	2.7	2.8	54.3	57.6	4756	9323	6132	10774		
4x240	60	2.2	1.6	0.5	59/2.5	2.9	3	59.2	62.9	5774	11906	7374	13506		
4x300	60	2.4	1.6	0.5	65/2.5	3	3.2	64.3	68.1	6922	14589	8624	16291		



# 0.6/1kV Al-Cu PVC Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored PVC Power Cable

## 5) Multi Cores, Circular Compacted Al or Cu/PVC/PVC Armoured Power Cable

Cross Section of Conductor	No. of Wires	Thickness of Insulation	Thickness of Inner Sheath	Thickness of Steel Tape	No./Dia. Of Steel Wires	Thickness of Sheath		Overall Diameter		Approx. Net Weight			
						STA	SWA	STA	SWA	STA	SWA	STA	
				mm <sup>2</sup>	-	mm	mm	mm	No./mm	mm	mm	mm	mm
<b>Three Cores</b>													
3x10	7	1	1	0.2	35/1.25	1.8	1.8	19.4	21.5	494	679	988	1172
3x16	7	1	1	0.2	32/1.6	1.8	1.8	21.5	24.3	604	895	1051	1343
3x25	7	1.2	1	0.2	38/1.6	1.8	1.8	25	27.9	791	1252	1329	1790
3x35	7	1.2	1	0.2	42/1.6	1.8	1.9	27.2	30.2	950	1595	1551	2196
3x50	19	1.4	1.1	0.2	39/2.0	2	2.1	31.3	35.2	1213	2079	2128	2994
3x70	19	1.4	1.2	0.5	45/2.0	2.1	2.2	35.6	40.1	1567	2894	2678	4005
3x95	19	1.6	1.3	0.5	42/2.5	2.3	2.4	42	46.2	2449	4188	3689	5428
3x120	37	1.6	1.3	0.5	45/2.5	2.4	2.5	45.3	49.6	2823	5014	4174	6364
3x150	37	1.8	1.4	0.5	49/2.5	2.5	2.7	48.9	53.2	3327	6069	4795	7537
3x185	37	2	1.5	0.5	56/2.5	2.7	2.8	54.5	58.7	4038	7371	5686	9019
3x240	61	2.2	1.6	0.5	63/2.5	2.9	3.1	61.4	65.2	4994	9457	6862	11325
3x300	61	2.4	1.7	0.5	70/2.5	3.2	3.3	67.9	71.7	6022	11564	8101	13643
3x400	61	2.6	1.9	0.5	62/3.15	3.4	3.6	75.4	80.5	7350	14543	10535	17728
<b>Four Cores</b>													
4x10	7	1	1	0.2	39/1.25	1.8	1.8	20.9	23	552	798	1073	1319
4x16	7	1	1	0.2	35/1.6	1.8	1.8	23.3	26.1	723	1110	1213	1601
4x25	7	1.2	1	0.2	42/1.6	1.8	1.9	27.2	30.2	959	1573	1559	2173
4x35	7	1.2	1	0.2	37/2.0	1.9	2	29.7	33.6	1140	2000	2006	2866
4x50	19	1.4	1.2	0.2	44/2.0	2.1	2.2	34.6	38.4	1524	2679	2541	3696
4x70	19	1.4	1.2	0.5	50/2.0	2.3	2.3	40.5	43.7	2338	4107	3187	4956
4x95	19	1.6	1.2	0.5	46/2.5	2.4	2.6	45.9	50.2	2955	5274	4325	6644
4x120	37	1.6	1.4	0.5	51/2.5	2.6	2.7	50	54.2	3466	6387	4568	7888
4x150	37	1.8	1.4	0.5	55/2.5	2.7	2.8	53.8	58.1	4144	7800	5772	9428
4x185	37	2	1.6	0.5	62/2.5	2.9	3	60.2	64.5	4987	9430	6822	11266
4x240	61	2.2	1.6	0.5	70/2.5	3.1	3.3	67.7	71.5	6161	12111	8233	14184
4x300	61	2.4	1.6	0.5	61/3.15	3.4	3.5	74.7	78.8	7346	14735	10305	17694