



أسلاك مباني جهد منخفض 450 / 750 ف Building Wires 450/750 V

Short Description: CU / PVC
Voltage: 450/750 V
Conductor: Stranded Plain Copper Conductor according to IEC 60228 Class 2
Insulation / temperature: PVC Insulation / 70 C
Cable Marking: **SAKHR CABLES** INDUSTRIES NO OF CORES - size 450/750 v CU / PVC
Printing Type: InkJet

Core Identification:
Single Core: G/Y (All Colours are Available as per Customer Request and as per Stock)

Packing: Cable shall be supplied in lengths as indicated in technical schedule on Air Coils or drums.

Tests: - Routine tests generally to IEC 60227 are performed on the cables and test certificate will be supplied on request.
- Electrical Resistance of the conductors shall be tested on IEC 60228.
- voltage test No breakdown of The insulation shall occur, The applied Voltage and duration will be as per IEC 60227 .

Electrical Data :
Maximum conductor operating temperature: 70 C
Maximum conductor temperature during S.C: 160 C

Laying conditions at trefoil formation are as below:

Soil thermal resistivity: 120 C . C m / Watt
- Burial depth: 0.5 m
- Ground temperature: 35 C
- Air temperature: 40 C
- Frequency: 50 Hz
- Cables are protected from direct solar radiation and no other thermal sources in the neighborhood.



Single Cables Core

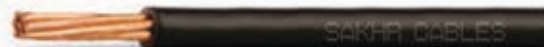
Cu / Pvc

Low Voltage Cables

450 / 750 V Indoor wires

Single Core Cables with Stranded

Copper Conductors and PVC Insulated



Description

- Soft annealed stranded Copper conductors insulated with PVC compound rated 70 C or 90 C according to IEC 60227 & BS EN 50525-2-31.

Application

- For indoor fixed installations in dry locations, laid in conduits, as well as in steel support brackets.

Nominal Cross Sectional Area mm ²	Number and Nominal Diameter of Wires	Max Conductor Resistance		Current Rating in Air		Appro x. Overall Diameter mm	Approx Weight Kg/Km
		DC at 20°C Ω/km	AC at 70°C Ω/km	Free 	In Pipes 		
1.5 RE	0.50×7	12.1	14.6	20	15	2.8	20
1.5 RM	0.50×7	12.1	14.6	20	15	3	21
2 RE	0.60×7	9.15	10.9	22	17	3.2	27
2 RM	0.60×7	9.15	10.9	22	17	3.4	28
2.5 RE	0.67×7	7.41	8.89	28	22	3.4	31
2.5 RM	0.67×7	7.41	8.89	28	22	3.6	33
3 RE	0.74×7	6.1	7.41	31	24	3.6	36
3 RM	0.74×7	6.1	7.41	31	24	3.8	39
4 RE	0.84×7	4.61	5.51	37	26	3.9	46
4 RM	0.84×7	4.61	5.51	37	26	4.1	49
6 RE	1.05×7	3.08	3.68	46	33	4.4	66
6 RM	1.05×7	3.08	3.68	46	33	4.7	70
10 RM	1.30×7	1.83	2.17	66	47	5.8	109
16 RM	1.70×7	1.15	1.37	87	62	6.8	166
25	1.30×19	0.727	0.8600	118	81	8.8	278
35	1.50×19	0.524	0.6300	147	100	9.9	371
50	1.80×19	0.387	0.4600	197	122	11.8	514
70	2.20×19	0.265	0.3200	230	151	13.5	711
95	2.50×19	0.193	0.2300	289	191	15.7	967
120	2.0×37	0.153	0.1900	337	219	17.4	1240
150	2.25×37	0.124	0.1500	385	259	12.4	1500
185	2.50×37	0.0991	0.1200	449	288	21.5	1852
240	2.25×61	0.0754	0.0920	542	345	24.7	2457
300	2.50×61	0.0601	0.0750	621	391	27.2	2977

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded

Single Cables Core

Cu / Pvc



Single Core Cables with Flexible Copper Conductors and PVC Insulated

Description

- Soft annealed Copper fine wires, bunched Together in subunits or stranded bunched groups into a main units, which forms the flexible conductor. Insulated with soft PVC 70 C or 90 C Compound.
- Cables are produced according to IEC 60227 or BS EN 50525-2-31.

Application

- For indoor fixed instillation in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets,

C. S.A	Cond Dia m.	Oreval Dia m.	Weight	Ma x. Cond Resist ance	Voltage Drop	Curren Rating	
						Ground at 30 C	Air at 40 C
mm	mm	mm	Kg/Km	DC at 20 C Ω/Km	V/A/Km	Am p.	Am p.
1x 0.5	0.9	2.1	8.82	39	5 8.2	3	2
1x 0.75	1.2	2.7	12.74	26	4 8.3	7	10
1x1	1x34	2.9	14.7	19.50	3.74	11	13

Nominal Cross Sectional Area mm	Number and Nominal Diameter of Wires	Maximum Diameter of Wires mm²	Max Conductor Resistance		Current Rating in Air		Approx Overall Diameter mm	Approx Weight Kg/Km
			DC at 20°C Ω/km	AC at 70°C Ω/km	Free 	In Pipes 		
1.5	030x21	0.26	13.3	15.9	20	15	3	20
2.0	030x28	0.26	9.15	10.9	22	17	3.3	2.8
2.5	030x35	0.26	7.98	9.56	28	22	3.7	31
3.0	030x42	0.31	6.1	7.41	31	24	3.9	3.7
4	030x56	0.31	4.95	5.93	37	26	4.2	44
6	030x84	0.31	3.3	3.95	46	33	4.7	62
10	030x140	0.41	1.91	2.29	66	47	6.2	108
16	030x224	0.41	1.21	1.45	87	62	7.2	162
25	030x350	0.41	0.78	0.9400	118	81	9.5	276
35	030x490	0.41	0.554	0.6630	147	100	11.0	375
50	030x700	0.41	0.386	0.4620	179	122	12.6	542
70	030x980	0.51	0.272	0.3260	230	151	14.6	733
95	030x1230	0.51	0.206	0.2470	289	191	16.8	957
120	030x1680	0.51	0.161	0.1930	337	219	18.9	1243
150	030x2100	0.51	0.129	0.1550	385	252	21.2	1548
185	030x2590	0.51	0.106	0.1270	449	288	23.4	1895
240	030x3360	0.51	0.0801	0.0960	542	345	26.7	2400

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded



Low Voltage

Cables

Operating Voltage

(up to 1.8/3 kV)

Cable Construction

1. Conductor

Copper or Aluminium conductors, solid, stranded or flexible with round or sectoral shaped conductors.

2. Insulation

An extruded layer of PVC or XLPE is applied over the conductor. PVC insulated cables are suitable for maximum conductor operating temperature of 70°C or 85°C and 90°C for XLPE.

3. Assembly

In case of multicore cables cores are assembled together using non hygroscopic filler (if needed) to fill space between cores, wrapped with suitable binder tape to form a round cable.

4. Bedding

In case of armoured cables an extruded layer of PVC or other material is applied as bedding.

5. Armouring

- Steel Tape: Double layers of steel tapes are applied helically with gap.
- Steel Wire: Galvanized steel wires are applied helically.

6. Sheath

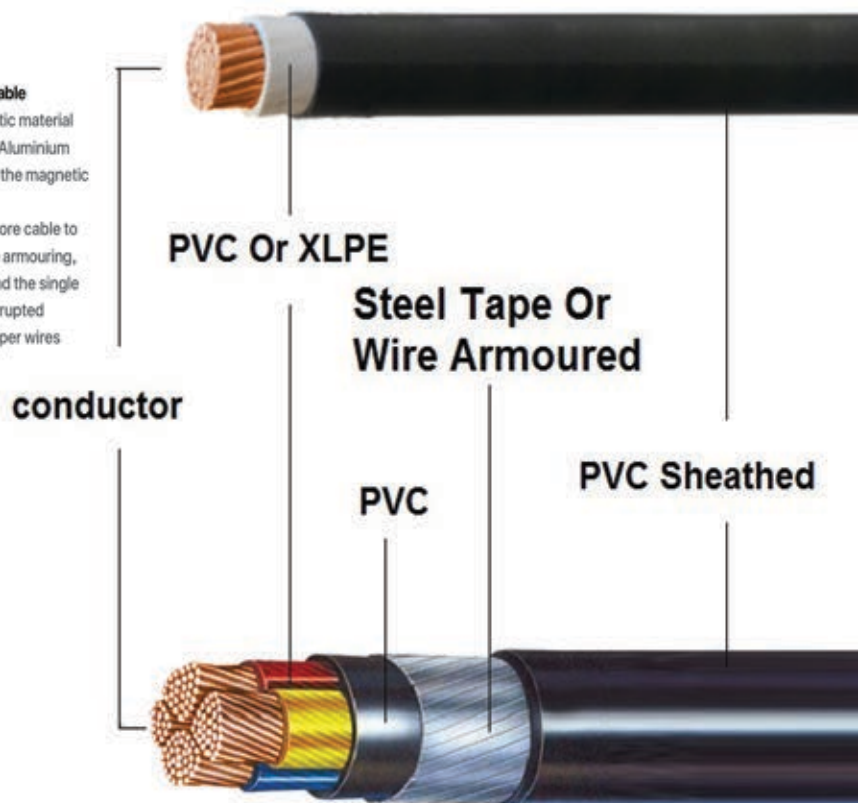
An extruded layer of PVC is applied as an outer sheath, or according to the client special requirements.

Option

Lead Sheath: Upon request a layer of lead is extruded over the bedding layer.

Armouring of Single Core Cable

- Armouring by non-magnetic material either Aluminium Tape or Aluminium Wire armouring to reduce the magnetic losses.
- If it is required for single core cable to be armoured by steel wire armouring, the magnetic circuit around the single core cable should be interrupted by inserting insulated copper wires between the steel wires.



Single Core Unarmoured

Pvc / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core Unarmoured

Single Core Cables with Stranded Circular Copper Conductors, PVC Insulated and PVC Sheathed



Description

- Soft annealed stranded Copper conductor. Insulated with PVC Compound rated 70 C and sheathed with PVC Compound layer.
- Cables are produced according IEC 60502.

Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, industrial plants, as in thermopower and hydropower stations.

Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 C	AC at 70 C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
										
mm²	Ω /km	Ω /km	A	A	A	A	A	A	mm	Kg/Km
4	4.61	5.51	53	53	38	50	37	35	7.1	87
6	3.08	3.68	65	66	47	65	48	46	7.6	113
10	1.83	2.17	88	89	62	89	9	62	8.3	154
16	1.15	1.37	113	113	77	108	85	79	9.3	216
25	0.727	0.8701	143	144	101	143	112	109	10.6	320
35	0.524	0.6273	171	173	123	176	138	134	11.7	410
50	0.387	0.4635	203	205	148	214	170	165	13.4	545
70	0.268	0.3214	248	252	183	271	215	209	15	745
95	0.193	0.232	296	301	224	332	267	259	17.1	1020
120	0.153	0.1845	337	342	255	386	310	301	18.5	1260
150	0.124	0.1501	378	383	292	442	357	347	20.5	1550
185	0.0991	0.1207	426	433	333	510	415	402	22.8	1925
240	0.0754	0.0931	494	501	393	608	496	481	25.8	2500
300	0.0601	0.0755	556	565	450	704	575	558	28.8	3110
400	0.047	0.0608	629	639	516	819	669	648	32	3975
500	0.0366	0.0495	709	721	594	957	777	753	36	5080
630	0.0283	0.041	792	807	672	1113	893	864	39.7	6385
800	0.0221	0.035	874	891	753	1284	1014	982	44.2	8260
1000	0.0176	0.0308	956	975	845	1478	1154	1116	51.7	10345

Single Core ATA Cables

Cu / Pvc / ATA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core ATA cables

Single Core Cables, with Stranded
Copper Conductors, PVC insulation,
Aluminum Tape Armoured, And PVC Sheathed

Description

- Soft annealed copper conductor, insulated with PVC compound rated 70 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
- Cables are produced according IEC 60502.

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.



Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 C	AC at 70 C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free- Touched	In Pipes Touched		
										
mm²	Ω/km	Ω/km	A	A	A	A	A	A	mm	Kg/Km
25	0.727	0.87	144	146	108	151	124	120	14.8	465
35	0.524	0.6272	173	175	131	185	151	147	15.9	565
50	0.387	0.4634	204	207	156	223	183	179	17.6	715
70	0.268	0.3212	249	253	192	280	230	224	19.2	935
95	0.193	0.2317	297	302	232	340	281	274	21.1	1220
120	0.153	0.1841	337	343	265	392	325	317	22.5	1470
150	0.124	0.1497	377	384	300	445	371	362	24.3	1770
185	0.0991	0.1203	425	433	343	509	427	416	26.4	2155
240	0.0754	0.0926	489	500	400	599	506	494	29.4	2765
300	0.0601	0.075	548	562	456	684	581	569	32.2	3385
400	0.047	0.0601	615	633	523	779	669	656	36	4330
500	0.0366	0.0488	687	711	594	889	769	756	40	5475
630	0.0283	0.0402	761	791	671	1007	872	862	43.5	6800
800	0.0221	0.034	829	867	746	1121	978	970	48.4	8770
1000	0.0176	0.0298	889	939	826	1236	1090	1088	55.9	10935

Single Core ATA Cables

Cu / Pvc / ATA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Single Core AWA Cables

Single Core Cables, with Stranded

Copper Conductors, PVC insulation,

Aluminum Wire Armoured, And PVC Sheathed

Description

- Soft annealed copper conductor, insulated with PVC compound rated 70 °C, Aluminum Wire Armoured and sheathed with PVC compound layer.
- Cables are according to IEC 60502 or BS 6346 .

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 C	AC at 70 C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
										
mm²	Ω/km	Ω/km	A	A	A	A	A	A	mm	Kg/Km
25	0.727	0.87	145	148	112	156	130	126	17.1	555
35	0.524	0.6272	174	177	134	190	158	154	18.2	670
50	0.387	0.4634	205	208	159	228	190	185	19.9	825
70	0.268	0.3212	250	254	196	283	237	231	21.5	1055
95	0.193	0.2317	296	302	236	340	287	281	23.4	1350
120	0.153	0.1841	334	342	267	389	330	323	24.8	1620
150	0.124	0.1497	372	382	303	437	374	367	26.6	1930
185	0.0991	0.1203	415	428	342	493	427	420	28.7	2325
240	0.0754	0.0926	473	491	397	568	499	493	31.7	2955
300	0.0601	0.075	519	544	446	630	563	561	34.8	3630
400	0.047	0.0601	572	605	502	699	636	639	38.4	4585
500	0.0366	0.0488	626	669	565	776	716	726	42.4	5740
630	0.0283	0.0402	677	732	623	850	794	812	46.1	7110
800	0.0221	0.034	695	764	662	897	846	877	52	9290
1000	0.0176	0.0298	727	807	715	973	919	959	59.5	11530

Multi Core Copper Unarmoured Cables

Cu / Pvc / Pvc

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded Copper Conductors PVC Insulated and PVC Sheathed



Description

- Multicore cables of stranded Copper conductors are insulated with PVC compound rated 70°C, assembled together, covered with overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

and indoor installations in damp and wet locations.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - Cu/PVC/PVC							
1 RM	14.2	16.5	29	20	16	6.5	68
1.5 RM	12.1	14.6	34	25	21	9.5	127
2 RM	9.9	11.05	39	29	25	9.9	129
2.5 RM	7.41	8.87	43	33	29	10.4	163
3 RM	5.4	6.9	48	39	35	11.5	180
4 RM	4.61	5.54	57	42	41	12.2	233
6 RM	3.08	3.69	72	53	52	13.4	300
10 RM	1.83	2.19	93	73	69	14.6	390
16 RM	1.15	1.39	122	86	92	16.6	550
25 RM	0.727	0.8701	156	114	121	20.1	730
35 RM	0.524	0.6273	189	137	149	22.3	940
50 SM	0.387	0.4634	236	165	186	22.5	1140
70 SM	0.268	0.3212	287	204	230	24.3	1565
95 SM	0.193	0.2317	346	249	287	28.6	2145
120 SM	0.153	0.1841	396	287	336	31.7	2630
150 SM	0.124	0.1496	443	325	383	34.5	3245
185 SM	0.0991	0.1201	503	373	446	39.2	4040
240 SM	0.0754	0.0923	582	439	528	43.8	5245
300 SM	0.0601	0.0745	653	497	601	47	6475
400 SM	0.047	0.0595	741	570	699	52.9	8310
3 core cables - Cu/PVC/PVC							
1 RM	14.2	16.5	23	17	15	9	20
1.5 RM	12.1	14.6	27	21	20	10	150
2 RM	9.5	11.5	31	25	22	11	13.5
2.5 RM	7.41	8.87	35	27	24	11	195
3 RM	5.9	6.5	39	32	29	12.5	220
4 RM	4.61	5.54	46	36	34	12.8	282
6 RM	3.08	3.69	59	43	43	14.2	370
10 RM	1.83	2.19	78	57	59	15.5	490
16 RM	1.15	1.39	98	71	80	17.6	700
25 RM	0.727	0.8702	130	94	102	21.4	975
35 RM	0.524	0.6274	156	114	125	23.8	1270
50 SM	0.387	0.4635	189	136	151	24.2	1620
70 SM	0.268	0.3214	232	169	191	27.5	2280
95 SM	0.193	0.2319	278	205	235	31.6	3120
120 SM	0.153	0.1844	315	234	270	33.6	3820
150 SM	0.124	0.15	354	266	310	37.5	4685
185 SM	0.0991	0.1206	399	303	357	41.7	5870
240 SM	0.0754	0.0928	462	357	423	47.2	7680
300 SM	0.0601	0.0752	521	406	486	52.5	9600
400 SM	0.047	0.0603	593	468	567	59.7	12310
500 SM	0.0366	0.0489	668	534	650	66.4	15690

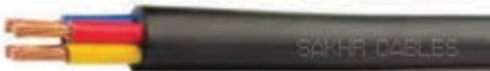
Multi Core Copper Unarmoured Cables

Cu / Pvc / Pvc

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded Copper Conductors, PVC Insulated and PVC Sheathed



Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - Cu/PVC/PVC							
1 RM	14.2	16.5	24	19	18	6.7	67
1.5 RM	12.1	14.6	28	22	21	10.8	180
2 RM	9.9	11.1	33	23	20	11.5	107
2.5 RM	7.41	8.87	36	28	25	11.9	235
3 RM	5.4	6.9	41	32	31	12.8	265
4 RM	4.61	5.54	46	36	36	14	343
6 RM	3.08	3.69	60	44	45	15.6	454
10 RM	1.83	2.19	79	58	61	17	610
16 RM	1.15	1.39	99	73	83	19.6	880
25 RM	0.727	0.8702	131	96	105	23.5	1270
35 RM	0.524	0.6274	158	116	129	26.2	1660
50 SM	0.387	0.4635	195	141	161	28.3	2140
70 SM	0.268	0.3214	239	175	203	32.1	3025
95 SM	0.193	0.2319	285	211	247	35.8	4125
120 SM	0.153	0.1844	324	243	287	39.4	5095
150 SM	0.124	0.15	364	277	329	43.9	6245
185 SM	0.0991	0.1206	411	316	379	48.9	7840
240 SM	0.0754	0.0928	476	372	450	55.2	10195
300 SM	0.0601	0.0752	537	425	516	61.3	12720
400 SM	0.047	0.0603	610	490	601	69.9	16365
500 SM	0.0366	0.0489	689	561	690	77.4	20815
4 core cables with reduced neutral - Cu/PVC/PVC							
25RM/16RM	0.727 / 1.15	0.8702 / 1.3762	130	95	103	22.6	1170
35RM/16RM	0.524 / 1.15	0.6274 / 1.3762	157	115	126	24.6	1470
50SM/25RM	0.387 / 0.727	0.4635 / 0.8702	195	141	161	28.3	1920
70SM/35RM	0.268 / 0.524	0.3214 / 0.6274	239	175	203	31.9	2680
95SM/50SM	0.193 / 0.387	0.2319 / 0.4635	282	209	243	34.3	3640
120SM/70SM	0.153 / 0.268	0.1844 / 0.6214	322	241	282	37.7	4575
150SM/70SM	0.124 / 0.268	0.15 / 0.6214	361	273	323	41.5	5440
185SM/95SM	0.0991 / 0.193	0.1206 / 0.2319	407	311	372	46.4	6910
240SM/120SM	0.0754 / 0.153	0.0928 / 0.1844	472	366	441	52.4	8905
300SM/150SM	0.0601 / 0.124	0.0752 / 0.15	532	419	507	58.2	11105
400SM/185SM	0.047 / 0.0991	0.0603 / 0.1206	605	482	590	65.9	14245
500SM/240SM	0.0366 / 0.0754	0.0489 / 0.0928	682	550	676	73.3	18190

Multipole copper armored cables

Cu / PVC / STA / PVC

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables, with Stranded Copper Conductors, PVC Insulated, Steel Tape Armoured and PVC Sheathed



Description

- Multicore cables of stranded Copper conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel tape and covered with overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor installations in damp and wet locations, where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - CU/PVC/STA/PVC							
6 RM	3.08	3.69	71	53	53	16.4	470
10 RM	1.83	2.19	93	73	70	17.4	570
16 RM	1.15	1.39	121	86	93	19.4	750
25 RM	0.727	0.8701	155	114	123	22.3	930
35 RM	0.524	0.6273	187	138	151	24.5	1165
50 SM	0.387	0.4634	232	167	187	24.7	1350
70 SM	0.268	0.3212	283	203	231	26.5	1785
95 SM	0.193	0.2317	339	250	287	31.4	2455
120 SM	0.153	0.1841	391	290	339	35.7	3295
150 SM	0.124	0.1496	438	328	385	38.3	3910
185 SM	0.0991	0.1201	496	375	447	43.2	4845
240 SM	0.0754	0.0923	573	440	527	47.8	6130
300 SM	0.0601	0.0745	640	496	597	51.2	7450
400 SM	0.047	0.0595	726	570	691	57.1	9400
3 core cables - CU/PVC/STA/PVC							
4 RM	4.61	5.54	45	36	35	15.8	440
6 RM	3.08	3.69	58	43	44	17	545
10 RM	1.83	2.19	77	57	59	18.4	680
16 RM	1.15	1.39	96	72	81	20.5	910
25 RM	0.727	0.8702	128	95	103	23.6	1210
35 RM	0.524	0.6274	154	114	126	26	1535
50 SM	0.387	0.4635	198	140	161	26.6	1860
70 SM	0.268	0.3214	242	176	203	30.1	2560
95 SM	0.193	0.2319	293	215	255	35.6	3780
120 SM	0.153	0.1844	333	245	293	37.4	4500
150 SM	0.124	0.15	373	278	336	41.7	5490
185 SM	0.0991	0.1206	421	317	387	45.9	6750
240 SM	0.0754	0.0928	488	373	460	51.4	8660
300 SM	0.0601	0.0752	551	424	531	56.5	10665
400 SM	0.047	0.0603	627	492	621	63.9	13545
500 SM	0.0366	0.0489	706	560	714	70.6	17060

Multipole copper armored cables

Cu / PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables, with Stranded
Copper Conductors,
PVC Insulated, Steel Tape Armoured and PVC Sheathed



Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - CU/PVC/STA/PVC							
4 RM	4.61	5.54	47	37	37	17	520
6 RM	3.08	3.69	60	45	46	18.4	650
10 RM	1.83	2.19	80	59	63	19.8	820
16 RM	1.15	1.39	100	74	85	22.2	1120
25 RM	0.727	0.8702	130	96	105	25.7	1505
35 RM	0.524	0.6274	156	117	130	28.4	1925
50 SM	0.387	0.4635	204	148	172	31.1	2455
70 SM	0.268	0.3214	252	184	220	35.9	3680
95 SM	0.193	0.2319	301	222	269	39.6	4855
120 SM	0.153	0.1844	343	257	312	43.4	5920
150 SM	0.124	0.15	386	291	359	48.1	7185
185 SM	0.0991	0.1206	436	333	415	53.1	8875
240 SM	0.0754	0.0928	506	391	494	59.4	11345
300 SM	0.0601	0.0752	571	447	570	65.5	14000
400 SM	0.047	0.0603	650	517	667	74.3	17860
500 SM	0.0366	0.0489	736	592	774	83	23230
4 core cables with reduced neutral - CU/PVC/STA/PVC							
25 RM / 16 RM	0.727 / 1.15	0.8702 / 1.3762	129	96	104	24.8	1395
35 RM / 16 RM	0.524 / 1.15	0.6274 / 1.3762	155	116	127	26.8	1715
50 SM / 25 RM	0.387 / 0.727	0.4635 / 0.8702	193	143	162	30.5	2225
70 SM / 35 RM	0.268 / 0.524	0.3214 / 0.6274	236	176	203	34.5	3050
95 SM / 50 SM	0.193 / 0.387	0.2319 / 0.4635	298	220	264	38.1	4340
120 SM / 70 SM	0.153 / 0.268	0.1844 / 0.3214	340	253	307	41.7	5365
150 SM / 70 SM	0.124 / 0.268	0.15 / 0.3214	381	286	351	45.7	6330
185 SM / 95 SM	0.0991 / 0.193	0.1206 / 0.2319	432	329	407	50.4	7860
240 SM / 120 SM	0.0754 / 0.153	0.0928 / 0.1844	501	385	484	56.4	9975
300 SM / 150 SM	0.0601 / 0.124	0.0752 / 0.15	565	440	558	62.2	12285
400 SM / 185 SM	0.047 / 0.0991	0.0603 / 0.1206	642	509	651	70.3	15650
500 SM / 240 SM	0.0366 / 0.0754	0.0489 / 0.0928	726	582	754	78.9	20475

Multipole copper armored cables

Cu / PVC / SWA / PVC



0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded Copper Conductors, PVC Insulated, Steel Wire Armoured and PVC Sheathed

Description

- Multicore cables of stranded Copper conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel wires and covered with overall jacket of PVC compound.
- Cables are produced according to IEC 60502 or BS 6346.

Application

- For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - CU/PVC/SWA/PVC							
4 RM	4.61	5.54	57	44	42	15.8	480
6 RM	3.08	3.69	72	54	54	17.7	660
10 RM	1.83	2.19	93	75	72	18.9	784
16 RM	1.15	1.39	122	88	96	20.9	985
25 RM	0.727	0.8701	156	117	127	25.6	1430
35 RM	0.524	0.6273	188	141	155	27.8	1720
50 SM	0.387	0.4634	234	171	193	28.2	1920
70 SM	0.268	0.3212	287	211	241	30.4	2560
95 SM	0.193	0.2317	343	255	296	35.3	3360
120 SM	0.153	0.1841	392	293	345	38.2	3950
150 SM	0.124	0.1496	439	332	394	42	5030
185 SM	0.0991	0.1201	494	380	453	47.1	6115
240 SM	0.0754	0.0923	569	440	531	51.5	7515
300 SM	0.0601	0.0745	633	494	598	54.9	8910
400 SM	0.047	0.0595	711	562	686	60.8	11020
3 core cables - CU/PVC/SWA/PVC							
4 RM	4.61	5.54	45	36	36	17.2	630
6 RM	3.08	3.69	58	43	45	18.6	750
10 RM	1.83	2.19	78	57	61	19.8	905
16 RM	1.15	1.39	97	71	83	22	1170
25 RM	0.727	0.8702	129	97	106	26.9	1755
35 RM	0.524	0.6274	156	117	130	29.3	2135
50 SM	0.387	0.4635	199	145	167	30.1	2470
70 SM	0.268	0.3214	246	180	212	34	3420
95 SM	0.193	0.2319	295	218	260	38.1	4435
120 SM	0.153	0.1844	335	247	299	39.9	5205
150 SM	0.124	0.15	375	282	344	45.4	6680
185 SM	0.0991	0.1206	421	320	394	49.6	8085
240 SM	0.0754	0.0928	486	375	465	55.1	10115
300 SM	0.0601	0.0752	544	425	532	60.4	12315
400 SM	0.047	0.0603	611	482	615	68.9	16155
500 SM	0.0366	0.0489	677	540	696	75.8	19925

Multipole copper armored cables

Cu / PVC / SWA / PVC

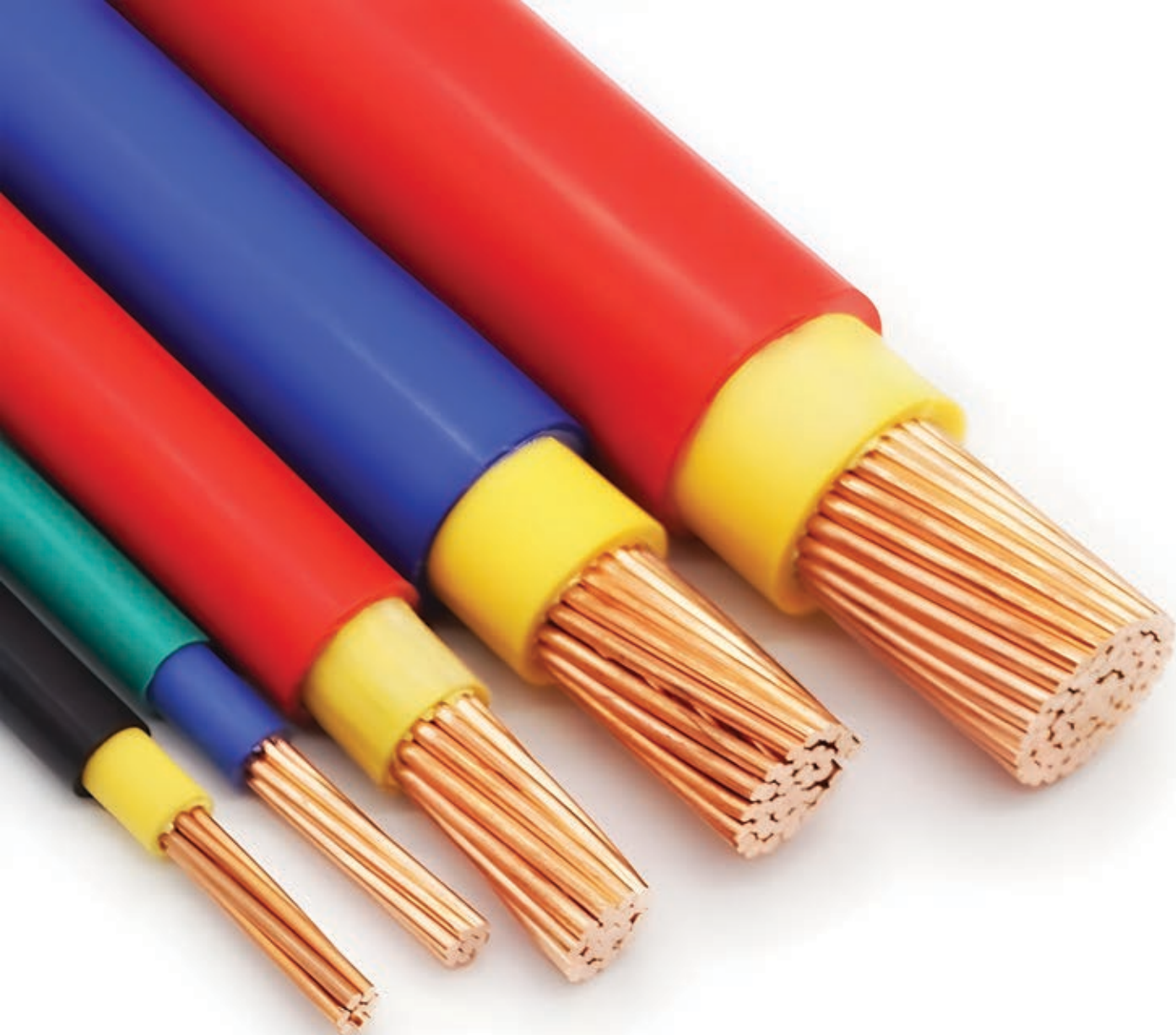
Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded Copper
 Conductors, PVC Insulated, Steel Wire
 Armoured and PVC Sheathed



Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - CU/PVC/SWA/PVC							
4 RM	4.61	5.54	49	36	36	18.4	725
6 RM	3.08	3.69	62	43	45	19.9	870
10 RM	1.83	2.19	84	57	60	21.3	1060
16 RM	1.15	1.39	105	73	82	24.4	1520
25 RM	0.727	0.8702	131	99	109	29	2085
35 RM	0.524	0.6274	157	119	133	31.9	2590
50 SM	0.387	0.4635	207	151	179	35	3360
70 SM	0.268	0.3214	254	187	225	38.6	4375
95 SM	0.193	0.2319	303	226	276	43.3	5990
120 SM	0.153	0.1844	344	260	319	47.1	7165
150 SM	0.124	0.15	386	294	365	51.8	8565
185 SM	0.0991	0.1206	434	336	420	56.8	10380
240 SM	0.0754	0.0928	500	389	495	63.1	13050
300 SM	0.0601	0.0752	560	441	567	69	15860
400 SM	0.047	0.0603	625	500	651	79.3	20890
500 SM	0.0366	0.0489	692	561	737	86.8	25770
4 core cables with reduced neutral - CU/PVC/SWA/PVC							
25 RM/16 RM	0.727 / 1.15	0.8702 / 1.3762	130	98	107	28.1	1965
35 RM/16 RM	0.524 / 1.15	0.6274 / 1.3762	156	118	131	30.3	2340
50 SM/25 RM	0.387 / 0.727	0.4635 / 0.8702	195	146	167	34.4	3105
70 SM/35 RM	0.268 / 0.524	0.3214 / 0.6274	238	180	209	38.4	4065
95 SM/50 SM	0.193 / 0.387	0.2319 / 0.4635	300	223	269	40.6	5030
120 SM/70 SM	0.153 / 0.268	0.1844 / 0.3214	341	256	314	45.6	6575
150 SM/70 SM	0.124 / 0.268	0.15 / 0.3214	382	289	358	49.4	7660
185 SM/95 SM	0.0991 / 0.193	0.1206 / 0.2319	431	331	412	54.1	9325
240 SM/120 SM	0.0754 / 0.153	0.0928 / 0.1844	497	386	486	60.1	11590
300 SM/150 SM	0.0601 / 0.124	0.0752 / 0.15	556	435	556	65.9	14060
400 SM/185 SM	0.047 / 0.0991	0.0603 / 0.1206	621	494	639	75.3	18480
500 SM/240 SM	0.0366 / 0.0754	0.0489 / 0.0928	688	553	723	82.7	22855



Single Core Unarmoured

Single Core Unarmoured

Cu / XLPE / PVC



Low Voltage Cables

0.6/1 (1.2) KV Single Core Unarmoured Cables

Single Core Cables, with Stranded

Circular Copper Conductors, XPLE

Insulated and PVC Sheathed

Description

- Soft annealed Stranded Copper conductor, Insulated with XPLE compound covered with a layer of PVC compound to form the overall jacket.
- Cables are according to IEC 60502 or BS 7889.

Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower stations.

Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20 C	AC at 70 C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
										
mm²	Ω/km	Ω/km	A	A	A	A	A	A	mm	Kg/Km
4	4.61	5.54	60	60	42	65	47	44	6.5	75
6	3.08	3.69	76	77	56	80	59	59	7	98
10	1.83	2.19	103	105	72	103	79	75	7.7	135
16	1.15	1.39	129	131	92	142	110	105	8.7	195
25	0.727	0.9272	166	168	118	179	138	134	10	285
35	0.524	0.6685	199	201	143	220	171	166	11.1	380
50	0.387	0.4939	236	239	172	269	210	204	12.6	500
70	0.268	0.3425	288	292	214	340	268	260	14.4	700
95	0.193	0.2472	344	349	259	418	331	321	16.1	950
120	0.153	0.1965	391	397	298	486	386	375	17.7	1190
150	0.124	0.1598	439	445	339	557	446	433	19.7	1465
185	0.0991	0.1285	496	503	390	646	519	503	21.8	1815
240	0.0754	0.099	574	583	457	771	622	602	24.6	2365
300	0.0601	0.0803	647	658	524	895	722	699	27.4	2945
400	0.047	0.0645	732	744	603	1044	842	815	30.6	3780
500	0.0366	0.0525	826	840	695	1222	981	950	34.6	4845
630	0.0283	0.0431	925	942	794	1420	1132	1096	38.9	6165
800	0.0221	0.0366	1022	1042	894	1639	1291	1249	43.8	8045
1000	0.0176	0.0321	1119	1142	999	1894	1473	1423	51.1	10050

Single Core ATA Cables

Cu / Xlpe / ATA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core ATA cables

Single Core Cables, with Stranded
Copper Conductors, XLPE insulation,
Aluminum Tape Armoured, And PVC Sheathed



Description

- Soft annealed copper conductor, insulated with XLPE compound rated 90 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
- Cables are produced according IEC 60502.

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20°C	AC at 90°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
										
mm²	Ω/km	Ω/km	A	A	A	A	A	A	mm	Kg/Km
25	0.727	0.9272	168	170	126	190	154	150	14.2	430
35	0.524	0.6684	201	204	151	233	188	183	15.3	525
50	0.387	0.4938	237	241	181	281	229	222	16.8	660
70	0.268	0.3423	290	294	223	352	287	279	18.6	880
95	0.193	0.2469	346	351	269	429	351	341	20.1	1140
120	0.153	0.1962	392	399	309	495	406	395	21.7	1395
150	0.124	0.1595	439	447	352	563	465	452	23.5	1680
185	0.0991	0.1281	494	504	400	646	536	522	25.6	2055
240	0.0754	0.0985	570	583	470	762	636	620	28.2	2615
300	0.0601	0.0797	640	656	533	872	732	715	31	3220
400	0.047	0.0638	719	739	613	997	846	828	34.6	4120
500	0.0366	0.0516	805	831	698	1141	975	957	38.6	5230
630	0.0283	0.0423	892	926	792	1291	1110	1094	42.7	6575
800	0.0221	0.0356	975	1018	884	1439	1248	1236	48	8545
1000	0.0176	0.031	1049	1105	981	1592	1390	1390	22.5	10660

Single Core AWA Cables

Cu / XLPE / AWA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Single Core AWA Cables

Single Core Cables, with Stranded

Copper Conductors, XLPE insulation,

Aluminum Wire Armoured, And PVC Sheathed

Description

- Soft annealed copper conductor, insulated with XLPE compound rated 90 °C, Aluminum Wire Armoured and sheathed with PVC compound layer.
- Cables are according to IEC 60502 or BS 5467 .

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20°C	AC at 90°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Separated	Free Touched	In Pipes Touched		
mm²	Ω/km	Ω/km	A	A	A	A	A	A	mm	Kg/Km
25	0.727	0.9271	170	172	130	198	162	152	16.5	515
35	0.524	0.6684	203	206	157	240	197	192	17.6	625
50	0.387	0.4938	239	243	187	288	238	232	19.1	770
70	0.268	0.3422	291	296	230	358	297	289	20.9	1000
95	0.193	0.2468	345	352	275	431	360	351	22.4	1275
120	0.153	0.196	389	399	314	493	414	405	24	1530
150	0.124	0.1593	434	445	354	555	471	461	25.8	1830
185	0.0991	0.1279	485	500	401	628	538	529	27.9	2220
240	0.0754	0.0983	553	573	466	726	630	622	30.7	2810
300	0.0601	0.0794	614	640	528	814	717	711	33.5	3435
400	0.047	0.0635	673	710	593	898	809	810	37.2	4375
500	0.0366	0.0512	738	787	668	997	913	923	41.2	5510
630	0.0283	0.0418	801	864	745	1097	1019	1038	45.1	6860
800	0.0221	0.0349	825	905	797	1152	1088	1126	51.6	9055
1000	0.0176	0.0304	864	958	862	1248	1184	1235	59.1	11245

Single Core AWA Cables

Cu / XLpe / AWA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Single Core AWA Cables

Single Core Cables, with Stranded
Copper Conductors, XLPE insulation,
Aluminum Wire Armoured, And PVC Sheathed

Description

- Soft annealed copper conductor, insulated with XLPE compound rated 90 °C, Aluminum Wire Armoured and sheathed with PVC compound layer.
- Cables are according to IEC 60502 or BS 5467 .

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross Sectional Area	Max Conductor Resistance		Current Rating in Air						Appro x. Overall Diameter	Approx Weight
	DC at 20°C	AC at 90°C	Laid in Free Ground			Laid in Free air (Shaded)				
			Flat	Trefoil	Duct	Flat Seperated	Free Touched	In Pipes Touched		
										
mm²	Ω/km	Ω/km	A	A	A	A	A	A	mm	Kg/Km
25	0.727	0.9271	170	172	130	198	162	152	16.5	515
35	0.524	0.6684	203	206	157	240	197	192	17.6	625
50	0.387	0.4938	239	243	187	288	238	232	19.1	770
70	0.268	0.3422	291	296	230	358	297	289	20.9	1000
95	0.193	0.2468	345	352	275	431	360	351	22.4	1275
120	0.153	0.196	389	399	314	493	414	405	24	1530
150	0.124	0.1593	434	445	354	555	471	461	25.8	1830
185	0.0991	0.1279	485	500	401	628	538	529	27.9	2220
240	0.0754	0.0983	553	573	466	726	630	622	30.7	2810
300	0.0601	0.0794	614	640	528	814	717	711	33.5	3435
400	0.047	0.0635	673	710	593	898	809	810	37.2	4375
500	0.0366	0.0512	738	787	668	997	913	923	41.2	5510
630	0.0283	0.0418	801	864	745	1097	1019	1038	45.1	6860
800	0.0221	0.0349	825	905	797	1152	1088	1126	51.6	9055
1000	0.0176	0.0304	864	958	862	1248	1184	1235	59.1	11245

Multi Core Unarmoured Cables

Cu / XLpe / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded, Copper Conductors, XLPE Insulated and PVC Sheathed



Description

- Multicore cables of stranded Copper conductors are insulated with XLPE compound, assembled together and covered with an overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower Stations.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - Cu/XLPE/PVC							
1 RM	14.2	16.5	37	28	26	8.2	100
1.5 RM	12.1	14.6	41	31	28	9.1	115
2 RM	4.9	11	46	35	33	9.5	130
2.5 RM	7.41	8.87	50	39	38	10	148
3 RM	5.4	6.9	57	44	43	10.5	170
4 RM	4.61	5.54	68	49	52	11	194
6 RM	3.08	3.69	86	64	67	12.2	255
10 RM	1.83	2.19	112	85	89	13.4	345
16 RM	1.15	1.39	144	102	118	15.4	500
25 RM	0.727	0.9272	188	133	154	18.9	675
35 RM	0.524	0.6685	227	162	189	21.1	880
50 SM	0.387	0.4938	276	193	230	20.9	1045
70 SM	0.268	0.3423	337	236	286	22.9	1460
95 SM	0.193	0.2469	405	288	357	26.6	2000
120 SM	0.153	0.1961	463	336	419	30.1	2485
150 SM	0.124	0.1593	519	378	478	32.9	3070
185 SM	0.0991	0.1279	590	438	560	37.5	3815
240 SM	0.0754	0.0982	682	513	663	41.6	4955
300 SM	0.0601	0.0792	767	582	757	45	6150
400 SM	0.047	0.0632	872	673	884	50.7	7895
3 core cables - Cu/XLPE/PVC							
1 RM	14.2	16.5	26	20	18	9.0	114
1.5 RM	12.1	14.6	31	25	23	9.5	130
2 RM	9.9	11	36	29	27	10.1	150
2.5 RM	7.41	8.87	42	33	34	10.6	175
3 RM	5.4	6.9	48	37	40	11.00	195
4 RM	4.61	5.54	54	39	44	11.6	233
6 RM	3.08	3.69	68	49	53	12.9	310
10 RM	1.83	2.19	89	65	72	14.2	430
16 RM	1.15	1.39	116	82	95	16.4	625
25 RM	0.727	0.9273	153	110	126	20.1	895
35 RM	0.524	0.6686	184	132	156	22.5	1180
50 SM	0.387	0.494	220	157	186	22.6	1490
70 SM	0.268	0.3425	270	195	236	26.1	2135
95 SM	0.193	0.2471	324	236	290	29.4	2895
120 SM	0.153	0.1964	368	272	337	32.8	3605
150 SM	0.124	0.1597	410	307	383	35.9	4435
185 SM	0.0991	0.1284	464	351	441	39.9	5555
240 SM	0.0754	0.0988	537	414	524	45	7250
300 SM	0.0601	0.0799	605	471	602	49.9	9050
400 SM	0.047	0.0641	688	547	701	57.3	11675
500 SM	0.0366	0.0518	776	625	806	63.8	14945

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded

Multi Core Unarmoured Cables

Cu / Xlpe / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded, Copper

Conductors, XLPE Insulated and PVC Sheathed

Nominal Cross sectional area mm ²	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter mm	Approx Weight Kg/Km
	DC at 20 °C Ω/Km	AC at 90 °C Ω/Km	Laid in ground A	Laid in duct A	Laid in free air (Shaded) A		

4 core cables - Cu/XLPE/PVC

1 RM	14.2	16.5	26	20	18	9.3	110
1.5 RM	12.1	14.6	32	26	24	10.3	155
2 RM	9.4	11	37	30	20	10.9	180
2.5 RM	7.41	8.87	43	33	35	11.4	210
3 RM	54	6.9	49	38	40	12.0	245
4 RM	4.61	5.54	55	40	45	12.6	280
6 RM	3.08	3.69	70	50	55	14	385
10 RM	1.83	2.19	92	67	75	15.5	535
16 RM	1.15	1.39	118	84	98	17.9	790
25 RM	0.727	0.9273	155	112	131	22.1	1170
35 RM	0.524	0.6686	186	136	161	24.8	1545
50 SM	0.387	0.494	225	162	197	26.3	1970
70 SM	0.268	0.3425	276	204	249	30.4	2825
95 SM	0.193	0.2471	330	243	303	33.1	3825
120 SM	0.153	0.1964	374	282	352	37.2	4785
150 SM	0.124	0.1597	421	321	405	41.7	5875
185 SM	0.0991	0.1284	475	369	467	46.7	7395
240 SM	0.0754	0.0988	551	431	554	52.5	9620
300 SM	0.0601	0.0799	621	493	636	58.1	11995
400 SM	0.047	0.0641	706	571	741	66.7	15480
500 SM	0.0366	0.0518	797	653	851	74.2	19815

4 core cables with reduced neutral - Cu/XLPE/PVC

25RM/16RM	0.727 / 1.15	0.9273 / 1.4666	154	111	129	21.2	1075
35RM/16RM	0.524 / 1.15	0.6686 / 1.4666	185	133	157	23.2	1365
50SM/25RM	0.387 / 0.727	0.494 / 0.9273	226	163	198	26.1	1755
70SM/35RM	0.268 / 0.524	0.3425 / 0.6686	277	204	250	30.2	2495
95SM/50SM	0.193 / 0.387	0.2471 / 0.494	329	243	301	32.6	3380
120SM/70SM	0.153 / 0.268	0.1964 / 0.3425	372	278	347	35.5	4290
150SM/70SM	0.124 / 0.268	0.1597 / 0.3425	418	315	397	39.3	5115
185SM/95SM	0.0991 / 0.193	0.1284 / 0.2471	472	363	458	44.2	6505
240SM/120SM	0.0754 / 0.153	0.0988 / 0.1964	546	424	543	49.7	8415
300SM/150SM	0.0601 / 0.124	0.0799 / 0.1597	615	485	624	55	10480
400SM/185SM	0.047 / 0.0991	0.0641 / 0.1284	700	560	727	62.7	13460
500SM/240SM	0.0366 / 0.0754	0.0518 / 0.0988	789	643	834	70.1	17300

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded

Multi Core STA Cables

Cu / XLpe / STA / PVC

Low Voltage Cables



0.6/1 (1.2) KV Multi Core STA Cables

Multicore Cables, with Stranded Copper Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

Description

- Multicore cables of stranded Copper conductors are insulated with XLPE compound, assembled together, armoured with steel tape and covered with an overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - CU/XLPE/STA/PVC							
6 RM	3.08	3.69	84	64	68	15	405
10 RM	1.83	2.19	110	85	90	16.2	510
16 RM	1.15	1.39	142	103	118	18.2	680
25 RM	0.727	0.9272	185	135	155	21.1	865
35 RM	0.524	0.6685	224	162	191	23.3	1090
50 SM	0.387	0.4938	272	193	231	22.9	1235
70 SM	0.268	0.3423	330	237	286	25.1	1675
95 SM	0.193	0.2469	397	289	355	29	2265
120 SM	0.153	0.1961	457	339	422	33.7	3085
150 SM	0.124	0.1593	512	381	480	36.5	3695
185 SM	0.0991	0.1279	580	440	559	41.5	4595
240 SM	0.0754	0.0982	670	513	658	45.6	5805
300 SM	0.0601	0.0792	751	580	749	49	7070
400 SM	0.047	0.0632	853	669	871	54.7	8925
3 core cables - CU/XLPE/STA/PVC							
6 RM	3.08	3.69	67	49	53	15.8	475
10 RM	1.83	2.19	88	66	73	17.1	605
16 RM	1.15	1.39	114	82	95	19.3	830
25 RM	0.727	0.9273	151	110	128	22.3	1120
35 RM	0.524	0.6686	182	134	157	24.7	1435
50 SM	0.387	0.494	230	164	199	24.6	1700
70 SM	0.268	0.3425	281	203	251	28.5	2390
95 SM	0.193	0.2471	337	246	309	32	3205
120 SM	0.153	0.1964	387	285	366	36.6	4280
150 SM	0.124	0.1597	432	322	415	39.9	5195
185 SM	0.0991	0.1284	488	371	480	43.9	6385
240 SM	0.0754	0.0988	566	434	570	49.2	8195
300 SM	0.0601	0.0799	639	496	658	53.9	10075
400 SM	0.047	0.0641	728	573	772	61.1	12810
500 SM	0.0366	0.0518	820	654	889	67.8	16245

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded

Multi Core STA Cables

Cu / XLpe / STA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA Cables

**Multicore Cables, with Stranded Copper
Conductors, XLPE Insulated, Steel Tape
Armoured and PVC Sheathed**

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - CU/XLPE/STA/PVC							
6 RM	3.08	3.69	67	50	55	17	555
10 RM	1.83	2.19	89	67	75	18.4	725
16 RM	1.15	1.39	116	84	98	20.8	1005
25 RM	0.727	0.9273	153	113	131	24.3	1390
35 RM	0.524	0.6686	184	137	162	27	1795
50 SM	0.387	0.494	237	170	211	28.3	2210
70 SM	0.268	0.3425	290	211	267	32.8	3125
95 SM	0.193	0.2471	347	258	329	36.9	4510
120 SM	0.153	0.1964	395	296	384	41.2	5575
150 SM	0.124	0.1597	445	337	443	45.7	6755
185 SM	0.0991	0.1284	504	388	513	50.7	8365
240 SM	0.0754	0.0988	584	453	610	56.5	10700
300 SM	0.0601	0.0799	659	518	704	62.1	13190
400 SM	0.047	0.0641	750	601	825	70.9	16885
500 SM	0.0366	0.0518	850	689	958	79.8	22155
4 core cables with reduced neutral - CU/XLPE/STA/PVC							
25RM/16RM	0.727 / 1.15	0.9273 / 1.4666	152	112	130	23.4	1285
35RM/16RM	0.524 / 1.15	0.6686 / 1.4666	182	135	158	25.4	1595
50SM/25RM	0.387 / 0.727	0.494 / 0.9273	223	164	198	28.3	2035
70SM/35RM	0.268 / 0.524	0.3425 / 0.6686	272	203	249	33	2865
95SM/50SM	0.193 / 0.387	0.2471 / 0.494	347	255	328	36.2	4035
120SM/70SM	0.153 / 0.268	0.1964 / 0.3425	394	292	378	39.1	5000
150SM/70SM	0.124 / 0.268	0.1597 / 0.3425	441	331	433	43.3	5945
185SM/95SM	0.0991 / 0.193	0.1284 / 0.2471	499	381	502	48.2	7425
240SM/120SM	0.0754 / 0.153	0.0988 / 0.1964	578	449	597	53.7	9440
300SM/150SM	0.0601 / 0.124	0.0799 / 0.1597	653	510	689	58.8	11580
400SM/185SM	0.047 / 0.0991	0.0641 / 0.1284	743	592	806	66.7	14745
500SM/240SM	0.0366 / 0.0754	0.0518 / 0.0988	838	675	930	74.1	18735

Multi Core SWA Cables

Cu / XLpe / SWA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded Copper Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed



Description

- Multicore cables of stranded Copper conductors are insulated with XLPE compound, assembled together, armoured with steel wires and covered with an overall jacket of PVC compound.
- Cables are produced according to IEC 60502 or BS 5467.

Application

- For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - CU/XLPE/SWA/PVC							
4 RM	4.61	5.54	68	52	55	14.6	410
6 RM	3.08	3.69	86	67	71	15.8	500
10 RM	1.83	2.19	111	88	93	17.7	700
16 RM	1.15	1.39	143	106	123	19.8	900
25 RM	0.727	0.9272	187	139	161	24.4	1335
35 RM	0.524	0.6685	226	166	198	26.6	1620
50 SM	0.387	0.4938	274	198	240	26.2	1750
70 SM	0.268	0.3423	332	243	296	28.6	2255
95 SM	0.193	0.2469	402	297	369	32.9	3105
120 SM	0.153	0.1961	458	341	430	36.4	3735
150 SM	0.124	0.1593	512	385	488	39	4365
185 SM	0.0991	0.1279	580	444	569	45.2	5790
240 SM	0.0754	0.0982	667	515	666	49.3	7105
300 SM	0.0601	0.0792	746	580	756	52.5	8455
400 SM	0.047	0.0632	839	662	868	58.4	10495
3 core cables - CU/XLPE/SWA/PVC							
4 RM	4.61	5.54	54	41	46	15.3	465
6 RM	3.08	3.69	67	51	56	16.6	570
10 RM	1.83	2.19	88	68	76	18.5	810
16 RM	1.15	1.39	114	84	99	20.7	1065
25 RM	0.727	0.9273	152	113	132	25.6	1620
35 RM	0.524	0.6686	183	137	162	28	1990
50 SM	0.387	0.494	232	168	206	28.1	2265
70 SM	0.268	0.3425	286	209	262	32.4	3205
95 SM	0.193	0.2471	342	253	322	35.9	4135
120 SM	0.153	0.1964	390	290	375	39.1	4945
150 SM	0.124	0.1597	434	330	426	43.6	6330
185 SM	0.0991	0.1284	490	375	490	47.6	7625
240 SM	0.0754	0.0988	565	436	579	52.7	9580
300 SM	0.0601	0.0799	634	496	663	57.6	11615
400 SM	0.047	0.0641	715	567	769	64.8	14570
500 SM	0.0366	0.0518	791	635	872	73	19020

Multi Core SWA Cables

Cu / XLpe / SWA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

**Multicore Cables, with Stranded Copper
Conductors, XLPE Insulated, Steel Wire
Armoured and PVC Sheathed**

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - CU/XLPE/SWA/PVC							
4 RM	4.61	5.54	54	42	47	16.3	535
6 RM	3.08	3.69	68	52	57	18.4	765
10 RM	1.83	2.19	90	69	77	19.8	950
16 RM	1.15	1.39	115	86	101	23	1390
25 RM	0.727	0.9273	154	116	136	27.6	1945
35 RM	0.524	0.6686	185	140	166	30.5	2435
50 SM	0.387	0.494	238	174	218	31.8	2860
70 SM	0.268	0.3425	293	218	277	36.9	4095
95 SM	0.193	0.2471	350	260	337	39.4	5195
120 SM	0.153	0.1964	397	301	393	44.9	6770
150 SM	0.124	0.1597	446	341	451	49.4	8090
185 SM	0.0991	0.1284	503	390	521	54.2	9805
240 SM	0.0754	0.0988	579	456	614	60.2	12320
300 SM	0.0601	0.0799	649	513	702	65.8	14975
400 SM	0.047	0.0641	725	584	810	75.9	19775
500 SM	0.0366	0.0518	806	659	920	83.4	24540
4 core cables with reduced neutral - CU/XLPE/SWA/PVC							
25RM/16RM	0.727 / 1.15	0.9273 / 1.4666	153	115	134	26.7	1815
35RM/16RM	0.524 / 1.15	0.6686 / 1.4666	184	138	163	28.7	2180
50SM/25RM	0.387 / 0.727	0.494 / 0.9273	225	168	204	31.8	2700
70SM/35RM	0.268 / 0.524	0.3425 / 0.6686	275	210	257	36.9	3835
95SM/50SM	0.193 / 0.387	0.2471 / 0.494	349	259	335	38.9	4720
120SM/70SM	0.153 / 0.268	0.1964 / 0.3425	395	296	386	41.8	5750
150SM/70SM	0.124 / 0.268	0.1597 / 0.3425	442	338	442	47	7190
185SM/95SM	0.0991 / 0.193	0.1284 / 0.2471	498	384	510	51.9	8805
240SM/120SM	0.0754 / 0.153	0.0988 / 0.1964	575	449	602	57.4	10975
300SM/150SM	0.0601 / 0.124	0.0799 / 0.1597	644	507	689	62.5	13285
400SM/185SM	0.047 / 0.0991	0.0641 / 0.1284	723	578	798	71.5	17405
500SM/240SM	0.0366 / 0.0754	0.0518 / 0.0988	800	648	902	79.3	21805

Aluminium cables



Low Voltage

Cables

Operating Voltage
(up to 1.8/3 kV)

Cable Construction

1. Conductor

Copper or Aluminium conductors, solid, stranded or flexible with round or sectoral shaped conductors.

2. Insulation

An extruded layer of PVC or XLPE is applied over the conductor. PVC insulated cables are suitable for maximum conductor operating temperature of 70-C or 85-C and 90-C for XLPE.

3. Assembly

In case of multicore cables cores are assembled together using non hygroscopic filler (if needed) to fill space between cores, wrapped with suitable binder tape to form a round cable.

4. Bedding

In case of armoured cables an extruded layer of PVC or other material is applied as bedding.

5. Armouring

- Steel Tape: Double layers of steel tapes are applied helically with gap.
- Steel Wire: Galvanized steel wires are applied helically.

6. Sheath

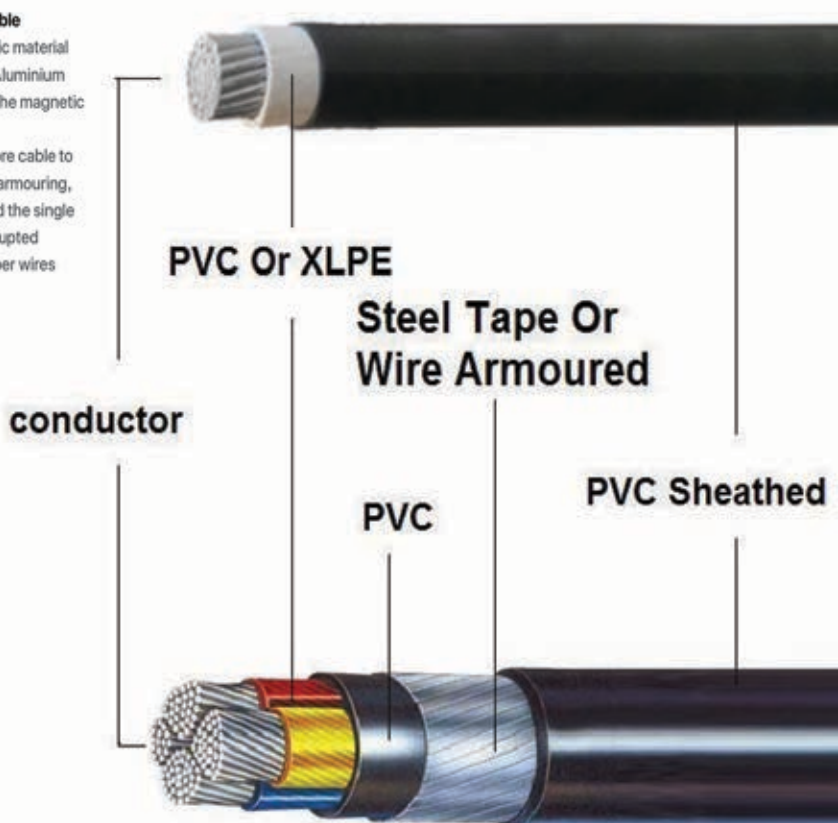
An extruded layer of PVC is applied as an outer sheath, or according to the client special requirements.

Option

Lead Sheath: Upon request a layer of lead is extruded over the bedding layer.

Armouring of Single Core Cable

- Armouring by non-magnetic material either Aluminium Tape or Aluminium Wire armouring to reduce the magnetic losses.
- If it is required for single core cable to be armoured by steel wire armouring, the magnetic circuit around the single core cable should be interrupted by inserting insulated copper wires between the steel wires.



Single Core Unarmoured Cables

AI / PVC / PVC

Low Voltage Cables

0.6/1 (1.2) KV Single Core Unarmoured Cables

Single Core Cables, with Stranded Circular Aluminium Conductors, PVC Insulated and PVC Sheathed



Description

- Soft annealed stranded Aluminum conductor. Insulated with PVC compound rated 70 °C and sheathed with PVC Compound layer.
- Cables are produced according to IEC 60502.

Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, industrial plants, as well as in thermopower and hydropower stations.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating						Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 70 °C	Laid in ground			Laid in free air (Shaded)				
			Flat	Trefoil	Duct	Flat Separated	Flat Touched	Trefoil Touched		
										
mm²	Ω/Km	Ω/Km	A	A	A	A	A	A	mm	Kg/Km
16	1.91	2.2949	86	87	60	83	65	63	9.1	120
25	1.2	1.4419	111	112	79	111	87	85	10.6	170
35	0.868	1.0431	133	134	95	136	107	104	11.7	210
50	0.641	0.7704	157	159	115	166	132	128	13.4	265
70	0.443	0.5327	193	195	142	210	167	162	15	340
95	0.32	0.3851	230	233	174	258	207	201	17.1	445
120	0.253	0.3048	262	266	198	300	241	234	18.5	535
150	0.206	0.2485	294	298	227	343	278	269	20.5	655
185	0.164	0.1984	333	338	260	397	324	314	22.8	810
240	0.125	0.1519	386	392	307	473	388	376	25.7	1035
300	0.1	0.1224	437	444	353	548	451	438	28.7	1285
400	0.0778	0.0964	499	508	410	644	531	515	32	1615
500	0.0605	0.0764	570	580	478	757	625	605	35.9	2015
630	0.0469	0.0612	648	660	550	889	730	707	39.6	2515
800	0.0367	0.0503	730	744	630	1045	850	822	44.6	3170
1000	0.0291	0.0425	814	830	719	1219	982	950	51.7	3950

Single Core STA Aluminum Cable

AI / ATA / PVC / PVC



Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, With Stranded
Aluminium Conductors, PVC insulation,
Aluminum Tape Armoured, and PVC Sheathed.

Description

- Soft annealed Aluminum conductor, insulated with PVC compound rated 70 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
- Cables are produced according to IEC 60502 .

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating						Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 70 °C	Laid in ground			Laid in free air (Shaded)				
			Flat	Trefoil	Duct	Flat Separated	Flat Touched	Trefoil Touched		
										
mm²	Ω/Km	Ω/Km	A	A	A	A	A	A	mm	Kg/Km
16	1.91	2.2949	87	88	65	90	73	71	13.3	260
25	1.2	1.4419	112	113	84	118	96	94	14.8	315
35	0.868	1.043	134	136	101	144	117	114	15.9	360
50	0.641	0.7704	158	160	121	174	142	139	17.6	435
70	0.443	0.5326	194	197	150	218	179	174	19.2	525
95	0.32	0.385	231	235	180	265	219	213	21.1	645
120	0.253	0.3046	263	267	207	306	253	247	22.5	745
150	0.206	0.2483	294	299	233	348	289	281	24.3	880
185	0.164	0.1981	333	339	268	400	334	325	26.4	1040
240	0.125	0.1517	385	392	314	472	397	387	29.3	1295
300	0.1	0.1221	433	443	359	542	459	447	32.1	1555
400	0.0778	0.0959	493	505	417	626	535	523	36	1970
500	0.0605	0.0759	559	575	480	724	624	611	39.9	2415
630	0.0469	0.0606	630	651	549	833	721	708	43.4	2930
800	0.0367	0.0495	702	729	628	951	829	817	48.8	3680
1000	0.0291	0.0417	770	806	709	1071	942	933	55.9	4540

Single Core SWA Aluminum Cable

AI / SWA / PVC / PVC

Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, With Stranded
Aluminium Conductors, PVC insulation,
Aluminum Wire Armoured, and PVC Sheathed.



Description

- Soft annealed Aluminum conductor, insulated with PVC compound rated 70 °C, Aluminum Wire Armoured and sheathed with PVC compound layer.
- Cables are produced according to IEC 60502 or BS 6346.

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating						Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 70 °C	Laid in ground			Laid in free air (Shaded)				
			Flat	Trefoil	Duct	Flat Separated	Flat Touched	Trefoil Touched		
										
mm²	Ω/Km	Ω/Km	A	A	A	A	A	A	mm	Kg/Km
16	1.91	2.2949	88	89	67	93	77	75	15.6	330
25	1.2	1.4419	113	115	87	122	101	98	17.1	405
35	0.868	1.043	135	137	104	148	123	119	18.2	465
50	0.641	0.7703	159	162	124	178	148	144	19.9	545
70	0.443	0.5326	195	198	152	222	185	180	21.5	650
95	0.32	0.3849	231	236	184	268	224	219	23.4	780
120	0.253	0.3046	262	268	209	308	259	253	24.8	895
150	0.206	0.2483	292	299	237	347	294	287	26.6	1040
185	0.164	0.198	329	337	270	395	337	331	28.7	1210
240	0.125	0.1515	377	389	315	459	397	390	31.6	1485
300	0.1	0.1219	420	435	357	517	454	448	34.7	1800
400	0.0778	0.0957	470	491	408	585	522	518	38.4	2225
500	0.0605	0.0757	525	553	467	662	598	598	42.3	2680
630	0.0469	0.0603	580	617	526	740	678	683	46	3240
800	0.0367	0.049	616	666	578	807	748	763	52.4	4200
1000	0.0291	0.0411	658	719	637	889	828	851	59.5	5135

Multi Core Unarmored Aluminum Cable
Al / PVC / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded
Aluminium Conductors PVC Insulated
and PVC Sheathed

Description

- Multicore cables of stranded Aluminium conductors are insulated with PVC compound rated 70°C, assembled together, covered with overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor and indoor installations in damp and wet locations.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - AL/PVC/PVC							
16 RM	1.91	2.295	94	68	71	17.1	310
25 RM	1.2	1.4419	121	88	94	20.1	430
35 RM	0.868	1.0431	147	106	116	22.3	535
50 RM	0.641	0.7704	174	128	141	25.7	670
70 RM	0.443	0.5327	214	158	178	29.1	865
95 RM	0.32	0.3851	256	191	218	33.1	1115
120 RM	0.253	0.3048	292	221	253	36.1	1360
150 RM	0.206	0.2485	327	249	288	39.9	1675
185 RM	0.164	0.1982	370	287	333	44.5	2070
240 RM	0.125	0.1518	429	338	394	50.3	2650
300 RM	0.1	0.1221	486	386	455	56.1	3285
400 RM	0.0778	0.096	556	447	529	62.9	4180
3 core cables - Cu/PVC/PVC							
16 RM	1.91	2.295	78	56	59	18.2	380
25 RM	1.2	1.442	101	73	79	21.4	525
35 RM	0.868	1.0432	121	89	97	23.8	655
50 SM	0.641	0.7704	147	106	117	24.2	775
70 SM	0.443	0.5327	180	131	148	27.5	1035
95 SM	0.32	0.3851	216	159	182	31.6	1370
120 SM	0.253	0.3048	245	182	210	33.6	1630
150 SM	0.206	0.2485	275	206	241	37.5	2015
185 SM	0.164	0.1983	311	236	278	41.7	2470
240 SM	0.125	0.1518	362	279	331	47.2	3225
300 SM	0.1	0.1222	409	318	381	52.5	3945
400 SM	0.0778	0.0961	470	371	449	59.7	5170
500 SM	0.0605	0.076	536	428	521	66.4	6470

Multi Core Unarmored Aluminum Cable

AI / PVC / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded Aluminium Conductors PVC Insulated and PVC Sheathed



Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - AL/PVC/PVC							
16 RM	1.91	2.295	79	57	61	19.9	475
25 RM	1.2	1.442	102	75	81	23.5	675
35 RM	0.868	1.0432	123	90	100	26.2	845
50 SM	0.641	0.7704	151	110	125	28.3	1025
70 SM	0.443	0.5327	185	136	157	32.1	1360
95 SM	0.32	0.3851	221	164	192	35.8	1805
120 SM	0.253	0.3048	252	189	223	39.4	2170
150 SM	0.206	0.2485	283	216	256	43.9	2685
185 SM	0.164	0.1983	321	247	296	48.9	3290
240 SM	0.125	0.1518	372	291	352	55.2	4235
300 SM	0.1	0.1222	421	333	405	61.3	5215
400 SM	0.0778	0.0961	484	388	477	69.9	6845
500 SM	0.0605	0.076	552	450	554	77.4	8485
4 core cables with reduced neutral - AL/PVC/PVC							
25 RM/16 RM	1.2 / 1.91	1.442 / 2.295	101	74	80	22.6	630
35 RM/16 RM	0.868 / 1.91	1.0432 / 2.295	122	89	98	24.6	760
50 SM/25 RM	0.641 / 1.2	0.7704 / 1.442	151	110	125	28.3	935
70 SM/35 RM	0.443 / 0.868	0.5327 / 1.0432	186	136	158	31.9	1225
95 SM/50 SM	0.32 / 0.641	0.3851 / 0.7704	219	162	188	34.3	1620
120 SM/70 SM	0.253 / 0.443	0.3048 / 0.5327	250	187	220	37.7	1960
150 SM/70 SM	0.206 / 0.443	0.2485 / 0.5327	280	212	251	41.5	2360
185 SM/95 SM	0.164 / 0.32	0.1983 / 0.3851	318	243	290	46.4	2905
240 SM/120 SM	0.125 / 0.253	0.1518 / 0.3048	369	287	345	52.4	3720
300 SM/150 SM	0.1 / 0.206	0.1222 / 0.2485	417	328	397	58.2	4615
400 SM/185 SM	0.0778 / 0.164	0.0961 / 0.1983	479	382	467	65.9	5970
500 SM/240 SM	0.0605 / 0.125	0.076 / 0.1518	547	441	543	73.3	7485

Multi Core Armoured Aluminum Cable

AI / PVC / STA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables, with Stranded Aluminium Conductors, PVC Insulated, Steel Tape Armoured and PVC Sheatheded

Description

- Multicore cables of stranded Aluminium conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel tape and covered with overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor installations in damp wet locations, where mechanical damages are expected to occur.

Nominal Cross-sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - AL/PVC/STA/PVC							
16 RM	1.91	2.295	93	68	72	19.3	485
25 RM	1.2	1.4419	120	89	95	22.3	635
35 RM	0.868	1.0431	145	107	117	24.5	755
50 RM	0.641	0.7704	172	129	142	27.9	930
70 RM	0.443	0.5327	212	160	179	31.3	1155
95 RM	0.32	0.3851	252	192	217	35.9	1500
120 RM	0.253	0.3048	289	224	255	40.1	2140
150 RM	0.206	0.2485	324	253	290	43.7	2515
185 RM	0.164	0.1982	366	289	333	48.5	3030
240 RM	0.125	0.1518	425	339	394	54.3	3730
300 RM	0.1	0.1221	481	388	453	60.3	4515
400 RM	0.0778	0.096	549	449	526	67.1	5550
3 core cables - AL/PVC/STA/PVC							
16 RM	1.91	2.295	77	57	60	20.4	575
25 RM	1.2	1.442	99	74	80	23.6	765
35 RM	0.868	1.0432	120	89	98	26	925
50 SM	0.641	0.7704	153	109	125	26.6	1020
70 SM	0.443	0.5327	188	137	158	30.1	1315
95 SM	0.32	0.3851	227	167	198	35.6	2030
120 SM	0.253	0.3048	259	191	228	37.4	2310
150 SM	0.206	0.2485	290	217	261	41.7	2820
185 SM	0.164	0.1983	329	248	302	45.9	3350
240 SM	0.125	0.1518	383	293	361	51.4	4210
300 SM	0.1	0.1222	434	334	418	56.5	5010
400 SM	0.0778	0.0961	499	391	494	63.9	6405
500 SM	0.0605	0.076	569	452	575	70.6	7835

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded

Multi Core Armoured Aluminum Cable

AI / PVC / STA / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA cables

Multicore Cables, with Stranded
Aluminium Conductors, PVC Insulated,
Steel Tape Armoured and PVC Sheathed



Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - AL/PVC/STA/PVC							
16 RM	1.91	2.295	78	57	62	22.1	670
25 RM	1.2	1.442	101	75	82	25.7	910
35 RM	0.868	1.0432	121	91	100	28.4	1105
50 SM	0.641	0.7704	158	115	134	31.1	1340
70 SM	0.443	0.5327	196	143	171	35.9	2015
95 SM	0.32	0.3851	234	172	209	39.6	2535
120 SM	0.253	0.3048	267	200	243	43.4	2995
150 SM	0.206	0.2485	300	227	279	48.1	3620
185 SM	0.164	0.1983	341	260	324	53.1	4325
240 SM	0.125	0.1518	397	306	387	59.4	5390
300 SM	0.1	0.1222	449	351	448	65.5	6495
400 SM	0.0778	0.0961	517	411	530	74.3	8340
500 SM	0.0605	0.076	592	476	623	83	10900
4 core cables with reduced neutral - AL/PVC/STA/PVC							
25 RM / 16 RM	1.2 / 1.91	1.442 / 2.295	100	74	81	24.8	855
35 RM / 16 RM	0.868 / 1.91	1.0432 / 2.295	120	90	99	26.8	1005
50 SM / 25 RM	0.641 / 1.2	0.7704 / 1.442	149	111	125	30.5	1240
70 SM / 35 RM	0.443 / 0.868	0.5327 / 1.0432	183	137	158	34.5	1600
95 SM / 50 SM	0.32 / 0.641	0.3851 / 0.7704	232	171	205	38.1	2315
120 SM / 70 SM	0.253 / 0.443	0.3048 / 0.5327	265	197	239	41.7	2750
150 SM / 70 SM	0.206 / 0.443	0.2485 / 0.5327	297	223	273	45.7	3245
185 SM / 95 SM	0.164 / 0.32	0.1983 / 0.3851	338	257	318	50.4	3860
240 SM / 120 SM	0.125 / 0.253	0.1518 / 0.3048	393	302	379	56.4	4790
300 SM / 150 SM	0.1 / 0.206	0.1222 / 0.2485	445	346	439	62.2	5795
400 SM / 185 SM	0.0778 / 0.164	0.0961 / 0.1983	511	404	517	70.3	7375
500 SM / 240 SM	0.0605 / 0.125	0.076 / 0.1518	585	468	607	78.9	9775

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded



Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded
Aluminium Conductors, PVC Insulated,
Steel Wire Armoured and PVC Sheathed

Description

- Multicore cables of stranded Aluminium conductors are insulated with PVC compound rated 70°C, assembled together, armoured with steel wires and covered with overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid In ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - AL/PVC/SWA/PVC							
16 RM	1.91	2.295	94	70	74	21.5	770
25 RM	1.2	1.4419	121	91	99	25.6	1130
35 RM	0.868	1.0431	146	110	120	27.8	1310
50 RM	0.641	0.7704	173	131	146	31.4	1575
70 RM	0.443	0.5327	214	163	184	35.2	2055
95 RM	0.32	0.3851	254	196	223	39.8	2535
120 RM	0.253	0.3048	290	225	258	42.6	2880
150 RM	0.206	0.2485	325	256	295	47.4	3790
185 RM	0.164	0.1982	366	291	337	52.4	4460
240 RM	0.125	0.1518	423	340	396	58	5295
300 RM	0.1	0.1221	477	387	453	64	6270
400 RM	0.0778	0.096	541	444	523	70.8	7495
3 core cables - AL/PVC/SWA/PVC							
16 RM	1.91	2.295	78	57	62	22.6	875
25 RM	1.2	1.442	100	76	82	26.9	1305
35 RM	0.868	1.0432	121	91	101	29.3	1520
50 SM	0.641	0.7704	155	113	130	30.1	1625
70 SM	0.443	0.5327	191	140	165	34	2175
95 SM	0.32	0.3851	229	170	202	38.1	2685
120 SM	0.253	0.3048	261	193	233	39.9	3015
150 SM	0.206	0.2485	292	220	268	45.4	4010
185 SM	0.164	0.1983	330	251	309	49.6	4685
240 SM	0.125	0.1518	383	295	366	55.1	5665
300 SM	0.1	0.1222	431	337	421	60.4	6660
400 SM	0.0778	0.0961	492	389	495	68.9	9015
500 SM	0.0605	0.076	555	443	570	75.8	10705

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded

Multi Core Armoured Aluminum Cable

AI / PVC / SWA / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded
Aluminium Conductors, PVC Insulated,
Steel Wire Armoured and PVC Sheathed

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - AL/PVC/SWA/PVC							
16 RM	1.91	2.295	79	59	64	25.4	1175
25 RM	1.2	1.442	102	77	84	29	1490
35 RM	0.868	1.0432	122	93	103	31.9	1770
50 SM	0.641	0.7704	160	118	139	35	2245
70 SM	0.443	0.5327	197	146	175	38.6	2710
95 SM	0.32	0.3851	236	176	215	43.3	3670
120 SM	0.253	0.3048	269	203	249	47.1	4240
150 SM	0.206	0.2485	301	230	285	51.8	5000
185 SM	0.164	0.1983	341	264	329	56.8	5830
240 SM	0.125	0.1518	395	307	391	63.1	7090
300 SM	0.1	0.1222	445	350	450	69	8355
400 SM	0.0778	0.0961	505	404	526	79.3	11370
500 SM	0.0605	0.076	570	463	606	86.8	13440
4 core cables with reduced neutral - AL/PVC/SWA/PVC							
25RM / 16RM	1.2 / 1.91	1.442 / 2.295	101	76	84	28.1	1425
35RM / 16RM	0.868 / 1.91	1.0432 / 2.295	121	92	101	30.3	1630
50SM / 25RM	0.641 / 1.2	0.7704 / 1.442	151	113	130	34.4	2120
70SM / 35RM	0.443 / 0.868	0.5327 / 1.0432	185	140	163	38.4	2610
95SM / 50SM	0.32 / 0.641	0.3851 / 0.7704	233	174	209	40.6	3005
120SM / 70SM	0.253 / 0.443	0.3048 / 0.5327	266	200	245	45.6	3955
150SM / 70SM	0.206 / 0.443	0.2485 / 0.5327	298	226	279	49.4	4580
185SM / 95SM	0.164 / 0.32	0.1983 / 0.3851	338	260	323	54.1	5325
240SM / 120SM	0.125 / 0.253	0.1518 / 0.3048	392	305	383	60.1	6405
300SM / 150SM	0.1 / 0.206	0.1222 / 0.2485	441	345	441	65.9	7575
400SM / 185SM	0.0778 / 0.164	0.0961 / 0.1983	501	399	516	75.3	10205
500SM / 240SM	0.0605 / 0.125	0.076 / 0.1518	565	455	594	82.7	12155

The above data is approximate and subjected to manufacturing tolerance.

rm: Round, Stranded
sm: Sector, Stranded



نسعى لتحقيق التميز في كل جانب من جوانب أعمالنا

We strive for excellence in every aspect of our business

Single Core Unarmoured Cables

AI / XLPE / PVC



Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, with Stranded Aluminium Copper Conductors, XPPE Insulated and PVC Sheathed

Description

- Soft annealed stranded Aluminum conductor, Insulated with XLPE compound covered with a layer of PVC compound to form the overall jacket.
- Cables are according to IEC 60502.

Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower stations.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating						Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 90 °C	Laid in ground			Laid in free air (Shaded)				
			Flat	Trefoil	Duct	Flat Separated	Flat Touched	Trefoil Touched		
										
mm²	Ω/Km	Ω/Km	A	A	A	A	A	A	mm	Kg/Km
16	1.91	2.4489	100	101	70	104	80	77	8.5	100
25	1.2	1.5387	129	130	92	139	107	104	10	140
35	0.868	1.1131	154	156	111	171	133	129	11.1	175
50	0.641	0.8221	183	185	134	208	163	158	12.6	220
70	0.443	0.5684	224	227	166	264	208	202	14.4	295
95	0.32	0.4109	267	271	201	324	256	249	16.1	380
120	0.253	0.3252	304	309	232	377	300	291	17.7	465
150	0.206	0.2651	341	346	263	432	346	336	19.7	575
185	0.164	0.2116	386	392	304	502	404	392	21.8	700
240	0.125	0.162	448	456	357	599	485	470	24.5	900
300	0.1	0.1305	507	516	411	696	566	548	27.3	1115
400	0.0778	0.1026	580	590	478	819	667	646	30.6	1420
500	0.0605	0.0813	663	675	558	965	787	762	34.5	1785
630	0.0469	0.0649	754	768	647	1131	922	892	38.8	2300
800	0.0367	0.053	850	867	744	1329	1077	1042	44.2	2950
1000	0.0291	0.0446	949	968	847	1556	1249	1207	51.1	3655

Single Core ATA Aluminum Cable

Al / Xlpe / ATA / PVC



Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, With Stranded Aluminium Conductors, XLPE insulation, Aluminium Tape Armoured, and PVC Sheathed.

Description

- Soft annealed Aluminum conductor, insulated with XLPE compound rated 90 °C, Aluminum Tape Armoured and sheathed with PVC compound layer.
- Cables are produced according to IEC 60502.

Application

- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating						Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 90 °C	Laid in ground			Laid in free air (Shaded)				
			Flat 	Trefoil 	Duct 	Flat Seperated 	Flat Touched 	Trefoil Touched 		
mm²	Ω/Km	Ω/Km	A	A	A	A	A	A	mm	Kg/Km
16	1.91	2.4489	102	103	76	112	90	88	12.7	230
25	1.2	1.5386	130	132	98	148	120	116	14.2	280
35	0.868	1.113	156	158	117	180	146	142	15.3	320
50	0.641	0.822	184	187	140	218	177	172	16.8	380
70	0.443	0.5683	225	228	174	274	223	217	18.6	475
95	0.32	0.4108	269	273	209	333	272	265	20.1	570
120	0.253	0.325	305	310	240	386	316	308	21.7	670
150	0.206	0.2649	341	347	273	439	362	352	23.5	790
185	0.164	0.2113	386	394	313	506	419	408	25.6	940
240	0.125	0.1617	447	456	368	599	498	485	28.1	1145
300	0.1	0.1301	504	515	419	689	577	561	30.9	1390
400	0.0778	0.1022	574	588	488	798	675	658	34.6	1760
500	0.0605	0.0808	652	670	563	925	788	770	38.5	2165
630	0.0469	0.0643	735	759	648	1064	913	895	42.6	2705
800	0.0367	0.0523	821	852	743	1214	1052	1035	48.4	3460
1000	0.0291	0.0438	903	944	838	1371	1200	1186	55.5	4265

Single Core AWA Aluminum Cable

Al / Xlpe / AWA / PVC



Low Voltage Cables

0.6/1 (1.2) KV

Single Core Cables, With Stranded
Aluminium Conductors, XLPE insulation,
Aluminum Wire Armoured, and PVC Sheathed.

- Description**
- Soft annealed Aluminium conductor, insulated with XLPE compound rated 90 °C, Aluminum Wire Armoured and sheathed with PVC compound layer.
 - Cables are produced according to IEC 60502.
- Application**
- For outdoor and indoor installation in damp and wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating						Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 90 °C	Laid in ground			Laid in free air (Shaded)				
			Flat	Trefoil	Duct	Flat Separated	Flat Touched	Trefoil Touched		
										
mm²	Ω/Km	Ω/Km	A	A	A	A	A	A	mm	Kg/Km
16	1.91	2.4489	103	104	78	118	96	93	15	295
25	1.2	1.5386	132	134	101	154	126	123	16.5	365
35	0.868	1.113	157	160	122	187	153	149	17.6	420
50	0.641	0.822	186	189	145	225	185	180	19.1	490
70	0.443	0.5683	227	230	179	280	231	225	20.9	595
95	0.32	0.4107	269	274	214	338	281	274	22.4	700
120	0.253	0.3249	305	311	246	389	325	317	24	805
150	0.206	0.2648	340	348	277	439	369	360	25.8	940
185	0.164	0.2112	383	393	315	501	425	415	27.9	1105
240	0.125	0.1616	440	453	368	585	500	491	30.6	1345
300	0.1	0.1299	492	509	419	663	573	564	33.4	1600
400	0.0778	0.102	551	574	480	749	661	655	37.2	2015
500	0.0605	0.0805	616	647	550	847	759	757	41.1	2445
630	0.0469	0.064	683	724	625	951	865	868	45	2990
800	0.0367	0.0518	725	782	689	1031	955	972	52	3980
1000	0.0291	0.0432	778	848	763	1136	1061	1089	59.1	4850

Multi Core Aluminum Unarmoured Cables

Al / XLpe / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded, Aluminum Conductors, XLPE Insulated and PVC Sheathed

Description

- Multicore cables of Stranded Aluminium conductors are insulated with XLPE compound, assembled together and covered with an overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in Thermopower and Hydropower Stations.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - AL/XLPE/PVC							
16 RM	1.91	2.4489	113	79	89	15.9	270
25 RM	1.2	1.5387	146	103	119	18.9	375
35 RM	0.868	1.1131	176	126	147	21.1	470
50 RM	0.641	0.8221	209	151	179	24.1	585
70 RM	0.443	0.5684	257	188	227	27.7	765
95 RM	0.32	0.4109	307	227	278	31.1	985
120 RM	0.253	0.3251	350	262	324	34.5	1230
150 RM	0.206	0.2651	392	297	370	38.3	1520
185 RM	0.164	0.2114	444	340	428	42.7	1865
240 RM	0.125	0.1618	516	402	509	48.1	2380
300 RM	0.1	0.1302	585	462	589	53.7	2975
400 RM	0.0778	0.1023	670	536	688	60.3	3785
3 core cables - AL/XLPE/PVC							
16 RM	1.91	2.4489	92	65	73	16.9	320
25 RM	1.2	1.5387	118	86	98	20.1	450
35 RM	0.868	1.1131	142	103	121	22.5	565
50 SM	0.641	0.8221	171	121	145	22.6	650
70 SM	0.443	0.5684	209	151	183	26.1	890
95 SM	0.32	0.4109	251	183	225	29.4	1150
120 SM	0.253	0.3252	286	211	262	32.8	1415
150 SM	0.206	0.2651	319	239	297	35.9	1765
185 SM	0.164	0.2115	361	274	344	39.9	2150
240 SM	0.125	0.1619	420	323	409	45	2795
300 SM	0.1	0.1302	474	369	471	49.9	3415
400 SM	0.0778	0.1023	544	433	555	57.3	4535
500 SM	0.0605	0.0809	621	501	645	63.8	5705

Multi Core Aluminum Unarmoured Cables

Al / Xlpe / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core Unarmoured Cables

Multicore Cables, with Stranded,
Aluminum Conductors, XLPE Insulated
and PVC Sheathed

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - AL/XLPE/PVC							
16 RM	1.91	2.4489	93	66	76	18.5	395
25 RM	1.2	1.5387	120	87	101	22.1	575
35 RM	0.868	1.1131	144	105	125	24.8	730
50 SM	0.641	0.8221	175	126	153	26.3	850
70 SM	0.443	0.5684	215	158	194	30.4	1160
95 SM	0.32	0.4109	256	189	235	33.1	1500
120 SM	0.253	0.3252	291	219	274	37.2	1860
150 SM	0.206	0.2651	327	249	314	41.7	2315
185 SM	0.164	0.2115	370	287	364	46.7	2850
240 SM	0.125	0.1619	430	337	432	52.5	3670
300 SM	0.1	0.1302	486	386	498	58.1	4500
400 SM	0.0778	0.1023	558	452	586	66.7	5960
500 SM	0.0605	0.0809	638	522	681	74.2	7485
4 core cables with reduced neutral - AL/XLPE/PVC							
25RM/16RM	1.2 / 1.91	1.5387 / 2.4489	119	86	100	21.2	530
35RM/16RM	0.868 / 1.91	1.1131 / 2.4489	143	103	122	23.2	655
50SM/25RM	0.641 / 1.2	0.8221 / 1.5387	175	126	153	26.1	765
70SM/35RM	0.443 / 0.868	0.5684 / 1.1131	215	158	194	30.2	1040
95SM/50SM	0.32 / 0.641	0.4109 / 0.8221	255	188	233	32.6	1350
120SM/70SM	0.253 / 0.443	0.3252 / 0.5684	289	216	270	35.5	1675
150SM/70SM	0.206 / 0.443	0.2651 / 0.5684	324	245	308	39.3	2030
185SM/95SM	0.164 / 0.32	0.2115 / 0.4109	367	283	357	44.2	2515
240SM/120SM	0.125 / 0.253	0.1619 / 0.3252	427	332	424	49.7	3230
300SM/150SM	0.1 / 0.206	0.1302 / 0.2651	482	380	489	55	3980
400SM/185SM	0.0778 / 0.164	0.1023 / 0.2115	554	443	575	62.7	5185
500SM/240SM	0.0605 / 0.125	0.0809 / 0.1619	632	515	668	70.1	6580

Multi Core Aluminum STA Cables

AI / STA / XLpe / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA Cables

Multicore Cables, with Stranded

Aluminium Conductors, XLPE Insulated,

Steel Tape Armoured and PVC Sheathed



Description

- Multicore cables of stranded Aluminium conductors are insulated with XLPE compound, assembled together, armoured with steel tape and covered with an overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm ²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - AL/XLPE/STA/PVC							
16 RM	1.91	2.4489	111	80	90	18.1	430
25 RM	1.2	1.5387	144	105	120	21.1	565
35 RM	0.868	1.1131	173	126	148	23.3	680
50 RM	0.641	0.8221	206	151	180	26.3	830
70 RM	0.443	0.5684	254	189	227	30.1	1060
95 RM	0.32	0.4109	303	229	278	33.7	1330
120 RM	0.253	0.3251	347	265	326	38.3	1955
150 RM	0.206	0.2651	388	299	371	42.1	2325
185 RM	0.164	0.2114	439	344	428	46.9	2810
240 RM	0.125	0.1618	510	403	507	52.3	3440
300 RM	0.1	0.1302	577	462	585	57.9	4155
400 RM	0.0778	0.1023	660	535	681	64.5	5100
3 core cables - AL/XLPE/STA/PVC							
16 RM	1.91	2.4489	91	65	74	19.1	500
25 RM	1.2	1.5387	117	86	99	22.3	675
35 RM	0.868	1.1131	141	104	121	24.7	820
50 SM	0.641	0.8221	178	127	154	24.6	855
70 SM	0.443	0.5684	218	158	195	28.5	1145
95 SM	0.32	0.4109	262	191	240	32	1460
120 SM	0.253	0.3252	301	222	285	36.6	2090
150 SM	0.206	0.2651	335	251	323	39.9	2525
185 SM	0.164	0.2115	381	289	375	43.9	2980
240 SM	0.125	0.1619	443	340	447	49.2	3745
300 SM	0.1	0.1302	502	390	517	53.9	4440
400 SM	0.0778	0.1023	578	455	613	61.1	5670
500 SM	0.0605	0.0809	659	526	715	67.8	7005

Multi Core Aluminum STA Cables

AI / STA / Xlpe / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core STA Cables

Multicore Cables, with Stranded
Aluminium Conductors, XLPE Insulated,
Steel Tape Armoured and PVC Sheathed

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - AL/XLPE/STA/PVC							
16 RM	1.91	2.4489	92	67	77	20.7	580
25 RM	1.2	1.5387	119	88	102	24.3	795
35 RM	0.868	1.1131	143	106	125	27	975
50 SM	0.641	0.8221	184	132	164	28.3	1090
70 SM	0.443	0.5684	225	164	208	32.8	1465
95 SM	0.32	0.4109	269	200	255	36.9	2180
120 SM	0.253	0.3252	307	231	298	41.2	2650
150 SM	0.206	0.2651	346	262	344	45.7	3195
185 SM	0.164	0.2115	393	302	400	50.7	3820
240 SM	0.125	0.1619	457	355	478	56.5	4755
300 SM	0.1	0.1302	518	407	553	62.1	5695
400 SM	0.0778	0.1023	596	477	654	70.9	7365
500 SM	0.0605	0.0809	682	553	769	79.8	9820
4 core cables with reduced neutral - AL/XLPE/STA/PVC							
25RM / 16RM	1.2 / 1.91	1.5387 / 2.4489	118	87	101	23.4	745
35RM / 16RM	0.868 / 1.91	1.1131 / 2.4489	141	104	123	25.4	885
50SM / 25RM	0.641 / 1.2	0.8221 / 1.5387	173	127	154	28.3	1050
70SM / 35RM	0.443 / 0.868	0.5684 / 1.1131	211	158	193	33	1410
95SM / 50SM	0.32 / 0.641	0.4109 / 0.8221	269	198	254	36.2	2005
120SM / 70SM	0.253 / 0.443	0.3252 / 0.5684	306	227	294	39.1	2390
150SM / 70SM	0.206 / 0.443	0.2651 / 0.5684	342	257	336	43.3	2860
185SM / 95SM	0.164 / 0.32	0.2115 / 0.4109	389	297	391	48.2	3435
240SM / 120SM	0.125 / 0.253	0.1619 / 0.3252	453	351	467	53.7	4255
300SM / 150SM	0.1 / 0.206	0.1302 / 0.2651	513	401	541	58.8	5085
400SM / 185SM	0.0778 / 0.164	0.1023 / 0.2115	590	470	640	66.7	6470
500SM / 240SM	0.0605 / 0.125	0.0809 / 0.1619	673	543	747	74.1	8010

Multi Core Aluminum SWA Cables

AI / SWA / XLpe / PVC

Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded, Aluminium Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed



Description

- Multicore cables of stranded Aluminium conductors are insulated with XLPE compound, assembled together, armoured with steel wire and covered with an overall jacket of PVC compound.
- Cables are produced according to IEC 60502.

Application

- For outdoor installations in damp wet locations where mechanical damages are expected to occur.

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
2 core cables - AL/XLPE/SWA/PVC							
16 RM	1.91	2.4489	113	82	94	20.3	695
25 RM	1.2	1.5387	146	108	125	24.4	1035
35 RM	0.868	1.1131	175	129	153	26.6	1210
50 RM	0.641	0.8221	208	155	186	29.6	1420
70 RM	0.443	0.5684	255	193	233	33.6	1765
95 RM	0.32	0.4109	306	233	286	37.6	2325
120 RM	0.253	0.3251	348	268	331	41	2690
150 RM	0.206	0.2651	389	302	376	44.6	3105
185 RM	0.164	0.2114	439	347	434	50.6	4160
240 RM	0.125	0.1618	509	405	512	56	4955
300 RM	0.1	0.1302	574	462	588	61.4	5800
400 RM	0.0778	0.1023	652	531	680	68.2	6965
3 core cables - AL/XLPE/SWA/PVC							
16 RM	1.91	2.4489	92	67	77	21.3	780
25 RM	1.2	1.5387	118	88	103	25.6	1170
35 RM	0.868	1.1131	142	106	125	28	1375
50 SM	0.641	0.8221	180	130	160	28.1	1420
70 SM	0.443	0.5684	222	162	204	32.4	1960
95 SM	0.32	0.4109	266	196	250	35.9	2385
120 SM	0.253	0.3252	304	226	292	39.1	2755
150 SM	0.206	0.2651	338	257	332	43.6	3660
185 SM	0.164	0.2115	383	294	383	47.6	4220
240 SM	0.125	0.1619	445	343	455	52.7	5125
300 SM	0.1	0.1302	501	392	524	57.6	5980
400 SM	0.0778	0.1023	573	454	616	64.8	7430
500 SM	0.0605	0.0809	646	519	711	73	9780

Multi Core Aluminum SWA Cables

AI / SWA / XLpe / PVC



Low Voltage Cables

0.6/1 (1.2) KV Multi Core SWA Cables

Multicore Cables, with Stranded, Aluminium Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

Nominal Cross sectional area	Maximum Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx Weight
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in duct	Laid in free air (Shaded)		
mm²	Ω/Km	Ω/Km	A	A	A	mm	Kg/Km
4 core cables - AL/XLPE/SWA/PVC							
16 RM	1.91	2.4489	93	69	80	24	1040
25 RM	1.2	1.5387	120	90	105	27.6	1350
35 RM	0.868	1.1131	144	109	129	30.5	1615
50 SM	0.641	0.8221	185	135	169	31.8	1740
70 SM	0.443	0.5684	228	169	215	36.9	2430
95 SM	0.32	0.4109	272	202	262	39.4	2870
120 SM	0.253	0.3252	309	235	306	44.9	3850
150 SM	0.206	0.2651	348	266	352	49.4	4530
185 SM	0.164	0.2115	394	306	408	54.2	5260
240 SM	0.125	0.1619	456	359	483	60.2	6375
300 SM	0.1	0.1302	514	407	556	65.8	7480
400 SM	0.0778	0.1023	585	471	653	75.9	10255
500 SM	0.0605	0.0809	661	541	754	83.4	12205
4 core cables with reduced neutral - AL/XLPE/SWA/PVC							
25RM/16RM	1.2 / 1.91	1.5387 / 2.4489	119	89	104	26.7	1270
35RM/16RM	0.868 / 1.91	1.1131 / 2.4489	143	107	127	28.7	1470
50SM/25RM	0.641 / 1.2	0.8221 / 1.5387	174	130	158	31.8	1710
70SM/35RM	0.443 / 0.868	0.5684 / 1.1131	214	163	200	36.9	2385
95SM/50SM	0.32 / 0.641	0.4109 / 0.8221	271	201	260	38.9	2695
120SM/70SM	0.253 / 0.443	0.3252 / 0.5684	308	231	300	41.8	3140
150SM/70SM	0.206 / 0.443	0.2651 / 0.5684	344	263	345	47	4105
185SM/95SM	0.164 / 0.32	0.2115 / 0.4109	390	301	399	51.9	4815
240SM/120SM	0.125 / 0.253	0.1619 / 0.3252	452	354	474	57.4	5790
300SM/150SM	0.1 / 0.206	0.1302 / 0.2651	510	401	546	62.5	6790
400SM/185SM	0.0778 / 0.164	0.1023 / 0.2115	582	466	642	71.5	9130
500SM/240SM	0.0605 / 0.125	0.0809 / 0.1619	655	531	738	79.3	11080