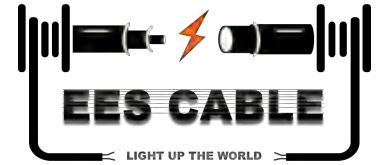


**0.6/1 kV Single-core cables, PVC insulated, unarmoured with aluminum conductor**  
**Power Cable LV**



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

**APPLICATIONS**

These cables are intended for fixed installations, indoors and outdoors, in low voltage electricity systems. They are normally used for the distribution of electrical energy in urban networks, power or switching stations, industrial plants, as well as in switchgears, in applications where there is no risk of mechanical damage.

**CABLE CHARACTERISTICS**

						
Max. Operating temperature	Max. Shortcircuit temperature	Flame propagation IEC 60332-1-2	Oil resistant ASTM D 1047	Mechanical impact Fair	UV Resistant	Min. bending radius (r) = 15 Ø

**APPLICABLE STANDARDS**

EES Low Voltage power cables are designed and tested to meet all the requirements of the latest edition of IEC 60502-1 standard. In addition, EES can also supply a range of alternative designs to meet customer-specified requirements.

**CABLE CONSTRUCTION**

Stranded circular or circular compacted aluminium conductor (Class 2 to IEC 60228).

**Conductor**

**Insulation**

Extruded layer of Polyvinyl Chloride (PVC) - Type (PVC/A) to IEC 60502-1.

**Core Identification**






 Red

**Outer Jacket**

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST1) to IEC 60502-1.

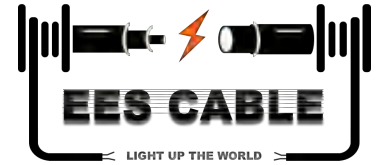
*Note: The core identification colour shown above is the most common. However, any other colour can be provided upon a customer's request (e.g. to HD 308 S2 or IEC 60445).*

**CABLE INSTALLATION**

				
Buried with protection	In free air Ladders / Trays	In duct	In trench	Internal cabling



**0.6/1 kV Single-core cables, PVC insulated, unarmoured with aluminum conductor**  
**Power Cable LV**



**POWER CABLES / IEC 60502-1 AL / PVC / PVC**

**0.6 / 1 kV**

Nominal cross sectional area	ELECTRICAL DATA									DIMENSIONS AND WEIGHTS		Cable Code
	Max. Conductor Resistance		Continuous Current Ratings							Approx. overall diameter	Approx. overall weight	
	DC at 20 °C	AC at 70 °C	Buried direct in ground		In buried ducts		In free air					
	Ω / km	Ω / km	(a)	(b)	(c)	(d)	(e)	(f)	(g)	mm	kg / km	
mm <sup>2</sup>	Ω / km	Ω / km	A	A	A	A	A	A	A	mm	kg / km	
10	3.0800	3.7007	48	49	36	41	41	42	54	8.5	100	A314PA10100CB51IMR
16	1.9100	2.2950	61	61	46	51	53	55	70	9.5	130	A315PA10100CB51IMR
25	1.2000	1.4420	78	78	61	67	71	73	93	11.1	180	A316PA10100CB51IMR
35	0.8680	1.0432	94	94	73	80	88	90	114	12.1	215	A317PA10100CB51IMR
50	0.6410	0.7706	111	111	88	96	107	110	138	13.7	275	A318PA10100CB51IMR
70	0.4430	0.5329	136	136	110	118	136	140	174	15.3	350	A319PA10100CB51IMR
95	0.3200	0.3854	162	163	133	143	168	173	214	17.5	470	A345PA10100CB51IMR
120	0.2530	0.3052	184	185	153	164	195	201	249	18.8	555	A346PA10100CB51IMR
150	0.2060	0.2490	206	207	174	185	225	232	285	20.9	680	A347PA10100CB51IMR
185	0.1640	0.1989	235	234	200	212	262	270	329	23.2	845	A348PA10100CB51IMR
240	0.1250	0.1527	272	272	235	248	313	322	392	26.1	1075	A349PA10100CB51IMR
300	0.1000	0.1233	307	307	270	283	363	375	454	29.1	1330	A350PA10100CB51IMR
400	0.0778	0.0975	350	350	311	327	426	439	531	32.3	1665	A351PA10100CB51IMF
500	0.0605	0.0779	398	399	359	378	499	514	625	36.3	2095	A352PA10100CB51IMF
630	0.0469	0.0630	451	451	411	435	580	598	733	40.1	2595	A353PA10100CB51IMF
800	0.0367	0.0524	503	503	464	494	665	686	852	44.1	3220	A354PA10100CB51IMF
1000	0.0291	0.0450	561	563	523	569	782	809	1022	52.8	4080	A255PA10100CB51IMF

