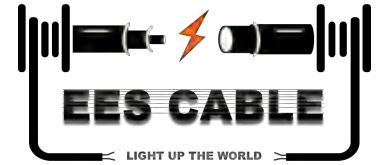


0.6/1 kV Single-core cables, XLPE insulated, wire armoured with aluminum conductor
Power Cable LV



Single-Core Cables, with Stranded Aluminium Conductors, XLPE Insulated, Aluminium Wire Armoured 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 a risk of mechanical damage.

CABLE CHARACTERISTICS



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

Conductor

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

Insulation

Extruded layer of Cross-linked Polyethylene (XLPE) to IEC 60502-1.

Core Identification

○ Red

Bedding

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST2) to IEC 60502-1.

Armouring

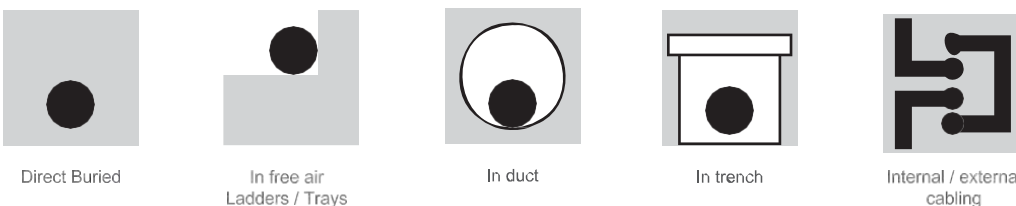
Single layer of round non-magnetic (aluminium) wires.

Outer Jacket

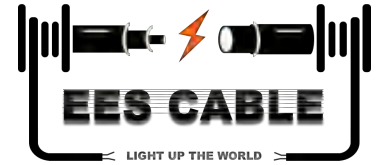
Extruded layer of Polyvinyl Chloride (PVC) - Type (ST2) to IEC 60502-1.

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



0.6/1 kV Single-core cables, XLPE insulated,
wire armoured with aluminum conductor
Power Cable LV



POWER CABLES / IEC 60502-1 AL / XLPE / AWA / PVC

0.6 / 1 kV

Nominal cross sectional area mm ²	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 90 °C	Buried direct in ground		In buried ducts		In free air					
	Ω / km	Ω / km	(a) A	(b) A	(c) A	(d) A	(e) A	(f) A	(g) A	mm	kg / km	
10	3.0800	3.9489	62	62	51	57	63	65	80	13.6	240	A314XA1010AMB51IMR
16	1.9100	2.4489	77	77	65	71	81	83	102	14.6	285	A315XA1010AMB51IMR
25	1.2000	1.5386	99	99	83	91	107	110	134	16.2	350	A316XA1010AMB51IMR
35	0.8680	1.1130	118	118	100	108	130	133	163	17.2	405	A317XA1010AMB51IMR
50	0.6410	0.8221	139	139	118	128	157	161	195	18.8	480	A318XA1010AMB51IMR
70	0.4430	0.5684	169	169	145	156	197	201	242	20.6	585	A319XA1010AMB51IMR
95	0.3200	0.4109	201	200	174	185	240	244	292	22.4	705	A345XA1010AMB51IMR
120	0.2530	0.3252	228	226	198	209	278	281	332	24.1	830	A346XA1010AMB51IMR
150	0.2060	0.2651	254	252	223	232	317	319	373	26.0	965	A347XA1010AMB51IMR
185	0.1640	0.2116	286	282	253	260	365	364	421	28.3	1150	A348XA1010AMB51IMR
240	0.1250	0.1621	328	323	293	297	430	425	483	31.0	1390	A349XA1010AMB51IMR
300	0.1000	0.1306	368	359	330	328	492	481	539	33.6	1640	A350XA1010AMB51IMR
400	0.0778	0.1028	408	395	372	354	564	536	587	38.2	2150	A351XA1010AMB51IMR
500	0.0605	0.0816	455	437	418	387	647	602	650	42.2	2620	A352XA1010AMB51IMF
630	0.0469	0.0653	501	478	466	421	733	668	711	46.4	3205	A353XA1010AMB51IMF
800	0.0367	0.0533	531	507	500	443	802	714	767	52.4	4150	A354XA1010AMB51IMF
1000	0.0291	0.0452	570	545	545	480	898	789	858	61.1	5165	A255XA1010AMB51IMF

