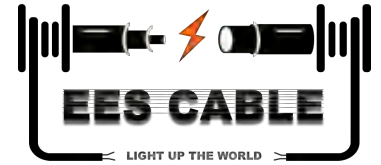


0.6/1 kV Multi-core cables, PVC insulated, wire armoured with aluminum conductor

Power Cable LV



Multi-Core Cables, with Stranded Aluminium Conductors, PVC Insulated, Steel 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



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 (rm) or sector shaped (sm) aluminium conductor (Class 2 to IEC 60228).

Insulation

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

Core Identification

- ○ Red, Black
- ○ Red, Yellow, Blue
- ○ Red, Yellow, Blue, Black

Assembly

Cores are assembled together using Non-hygroscopic filler, if needed.

Bedding

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

Armouring

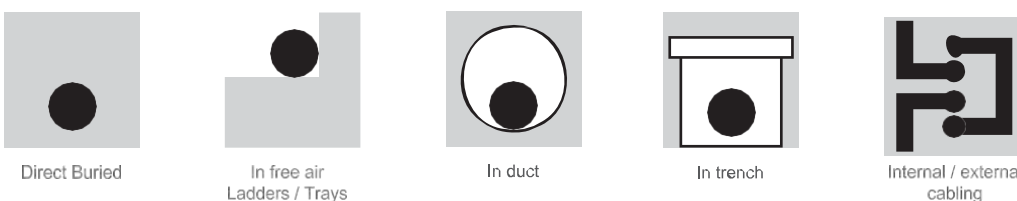
Single layer of round galvanized steel wires.

Outer Jacket

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

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

CABLE INSTALLATION



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



POWER CABLES / IEC 60502-1 AL / PVC / SWA / 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	Laid in ground	Laid in ducts	Laid in free air				
mm ²	Ω / km	Ω / km	A	A	A	mm	kg / km		
Two Core Cables									
10	rm	3.0800	3.7007	58	43	52	19.5	750	A314PA1020WCB01IMR
16	rm	1.9100	2.2950	75	56	69	21.5	900	A315PA1020WCB01IMR
25	rm	1.2000	1.4421	97	74	93	24.8	1265	A316PA1020WCB01IMR
35	rm	0.8680	1.0433	116	89	113	27.4	1490	A317PA1020WCB01IMR
Three Core Cables									
10	rm	3.0800	3.7007	48	35	44	20.9	800	A314PA1030WCB04IMR
16	rm	1.9100	2.2950	62	46	58	23.1	955	A315PA1030WCB04IMR
25	rm	1.2000	1.4421	81	60	78	26.5	1335	A316PA1030WCB04IMR
35	sm	0.8680	1.0433	89	68	85	26.4	1385	A417PA1030WCB04IMR
50	sm	0.6410	0.7707	106	82	104	30.2	1735	A418PA1030WCB04IMR
70	sm	0.4430	0.5331	130	102	130	34.5	2350	A419PA1030WCB04IMR
95	sm	0.3200	0.3856	156	124	160	38.7	2900	A445PA1030WCB04IMF
120	sm	0.2530	0.3055	176	141	183	40.6	3250	A446PA1030WCB04IMF
Four Core Cables									
10	rm	3.0800	3.7007	48	35	44	22.4	930	A314PA1040WCB08IMR
16	rm	1.9100	2.2950	62	46	58	25.5	1245	A315PA1040WCB08IMR
25	rm	1.2000	1.4421	81	60	78	28.6	1535	A316PA1040WCB08IMR
35	sm	0.8680	1.0433	89	68	85	29.9	1695	A417PA1040WCB08IMR
50	sm	0.6410	0.7707	106	82	104	35.5	2395	A418PA1040WCB08IMR
70	sm	0.4430	0.5331	130	102	130	39.1	2860	A419PA1040WCB08IMR
95	sm	0.3200	0.3856	156	124	160	44.0	3905	A445PA1040WCB08IMF
120	sm	0.2530	0.3055	176	141	183	47.8	4525	A446PA1040WCB08IMF
150	sm	0.2060	0.2494	197	160	210	52.5	5255	A447PA1040WCB08IMF
185	sm	0.1640	0.1994	223	183	241	57.9	6255	A448PA1040WCB08IMS
240	sm	0.1250	0.1533	257	214	283	64.2	7580	A449PA1040WCB08IMS
300	sm	0.1000	0.1240	289	242	324	70.3	8885	A450PA1040WCB08IMS
400	sm	0.0778	0.0984	327	278	378	80.6	11870	A451PA1040WCB08IMS
500	sm	0.0605	0.0789	367	315	431	88.3	14120	A452PA1040WCB08IMS
Four Core Cables with Reduced Neutral									
50sm	25rm	0.6410 / 1.2000	0.7707 / 1.4421	106	82	104	34.9	2290	A436PA1040WCB08IMR
70sm	35sm	0.4430 / 0.8680	0.5331 / 1.0433	130	102	130	37.5	2665	A437PA1040WCB08IMR
95sm	50sm	0.3200 / 0.6410	0.3856 / 0.7707	156	124	160	41.3	3250	A438PA1040WCB08IMR
120sm	70sm	0.2530 / 0.4430	0.3055 / 0.5331	176	141	183	46.3	4255	A439PA1040WCB08IMF
150sm	70sm	0.2060 / 0.4430	0.2494 / 0.5331	197	160	210	50.1	4825	A440PA1040WCB08IMF
185sm	95sm	0.1640 / 0.3200	0.1994 / 0.3856	223	183	241	54.8	5660	A441PA1040WCB08IMF
240sm	120sm	0.1250 / 0.2530	0.1533 / 0.3055	257	214	283	61.2	6875	A442PA1040WCB08IMF
300sm	150sm	0.1000 / 0.2060	0.1240 / 0.2494	289	242	324	67.0	8075	A443PA1040WCB08IMS
400sm	185sm	0.0778 / 0.1640	0.0984 / 0.1994	327	278	378	76.6	10815	A444PA1040WCB08IMS
500sm	240sm	0.0605 / 0.1250	0.0789 / 0.1533	367	315	431	84.0	12800	A466PA1040WCB08IMS