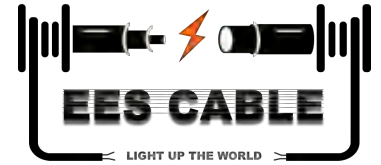


0.6/1 kV Multi-core cables, PVC insulated, tape armoured with aluminum conductor

## Power Cable LV



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

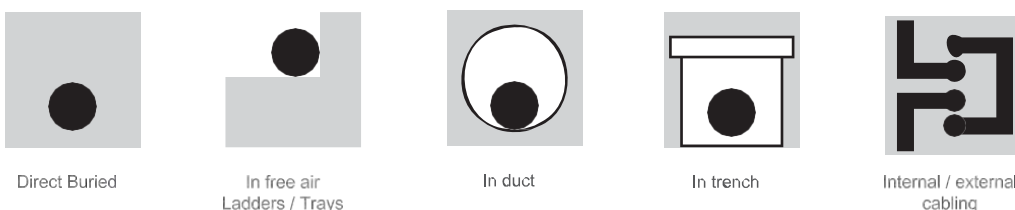
Double layers of galvanized steel tapes.

#### 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, tape armoured with aluminum conductor  
**Power Cable LV**



**POWER CABLES / IEC 60502-1 AL / PVC / STA (DST) / 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 <sup>2</sup>	Ω / km	Ω / km	A	A	A	mm	kg / km		
<b>Two Core Cables</b>									
10	rm	3.0800	3.7007	57	42	50	17.8	480	A314PA1020GCB01IMR
16	rm	1.9100	2.2950	74	55	67	19.8	590	A315PA1020GCB01IMR
25	rm	1.2000	1.4421	96	72	89	22.4	765	A316PA1020GCB01IMR
35	rm	0.8680	1.0433	114	87	109	25.0	945	A317PA1020GCB01IMR
<b>Three Core Cables</b>									
10	rm	3.0800	3.7007	47	34	42	19.2	505	A314PA1030GCB04IMR
16	rm	1.9100	2.2950	61	45	56	21.4	625	A315PA1030GCB04IMR
25	rm	1.2000	1.4421	79	59	75	24.1	795	A316PA1030GCB04IMR
35	sm	0.8680	1.0433	88	66	82	24.0	865	A417PA1030GCB04IMR
50	sm	0.6410	0.7707	105	80	101	27.6	1100	A418PA1030GCB04IMR
70	sm	0.4430	0.5331	128	100	126	31.1	1410	A419PA1030GCB04IMR
95	sm	0.3200	0.3856	155	122	157	36.7	2165	A445PA1030GCB04IMF
120	sm	0.2530	0.3055	175	139	180	38.6	2490	A446PA1030GCB04IMF
<b>Four Core Cables</b>									
10	rm	3.0800	3.7007	47	34	42	20.7	605	A314PA1040GCB08IMR
16	rm	1.9100	2.2950	61	45	56	23.1	735	A315PA1040GCB08IMR
25	rm	1.2000	1.4421	79	59	75	26.2	960	A316PA1040GCB08IMR
35	sm	0.8680	1.0433	88	66	82	27.3	1080	A417PA1040GCB08IMR
50	sm	0.6410	0.7707	105	80	101	32.1	1435	A418PA1040GCB08IMR
70	sm	0.4430	0.5331	128	100	126	36.9	2115	A419PA1040GCB08IMR
95	sm	0.3200	0.3856	155	122	157	40.8	2685	A445PA1040GCB08IMF
120	sm	0.2530	0.3055	175	139	180	44.6	3190	A446PA1040GCB08IMF
150	sm	0.2060	0.2494	196	158	206	49.3	3820	A447PA1040GCB08IMF
185	sm	0.1640	0.1994	222	181	237	54.5	4615	A448PA1040GCB08IMS
240	sm	0.1250	0.1533	257	212	281	61.0	5770	A449PA1040GCB08IMS
300	sm	0.1000	0.1240	290	242	323	67.1	6905	A450PA1040GCB08IMS
400	sm	0.0778	0.0984	333	281	378	76.1	8695	A451PA1040GCB08IMS
500	sm	0.0605	0.0789	377	322	436	85.0	11430	A452PA1040GCB08IMS
<b>Four Core Cables with Reduced Neutral</b>									
50sm	25rm	0.6410 / 1.2000	0.7707 / 1.4421	105	80	101	31.5	1330	A436PA1040GCB08IMR
70sm	35sm	0.4430 / 0.8680	0.5331 / 1.0433	128	100	126	34.1	1640	A437PA1040GCB08IMR
95sm	50sm	0.3200 / 0.6410	0.3856 / 0.7707	155	122	157	39.1	2455	A438PA1040GCB08IMR
120sm	70sm	0.2530 / 0.4430	0.3055 / 0.5331	175	139	180	42.9	2960	A439PA1040GCB08IMF
150sm	70sm	0.2060 / 0.4430	0.2494 / 0.5331	196	158	206	46.9	3445	A440PA1040GCB08IMF
185sm	95sm	0.1640 / 0.3200	0.1994 / 0.3856	222	181	237	51.6	4140	A441PA1040GCB08IMF
240sm	120sm	0.1250 / 0.2530	0.1533 / 0.3055	257	212	281	58.0	5150	A442PA1040GCB08IMS
300sm	150sm	0.1000 / 0.2060	0.1240 / 0.2494	290	242	323	63.8	6185	A443PA1040GCB08IMS
400sm	185sm	0.0778 / 0.1640	0.0984 / 0.1994	333	281	378	72.1	7790	A444PA1040GCB08IMS
500sm	240sm	0.0605 / 0.1250	0.0789 / 0.1533	377	322	436	80.7	10220	A466PA1040GCB08IMS