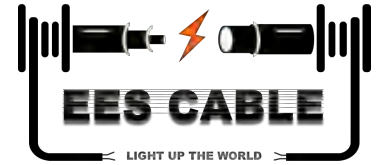


0.6/1 kV Multi-core cables, PVC insulated, unarmoured with aluminum conductor

Power Cable LV



Multi-Core Cables, with Stranded Aluminum 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



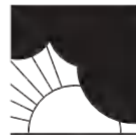
Flame propagation IEC 60332-1-2



Oil resistant ASTM D 1047



Mechanical impact Fair



UV Resistant



Min. bending radius (r) = 12 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

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.

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



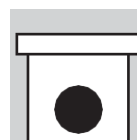
Buried with protection



In free air
Ladders / Trays



In duct



In trench



Internal cabling



0.6/1 kV Multi-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	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	59	41	50	15.0	300	A314PA10200CB01IMR
16	rm	1.9100	2.2950	76	54	66	17.0	390	A315PA10200CB01IMR
25	rm	1.2000	1.4421	99	71	90	19.6	535	A316PA10200CB01IMR
35	rm	0.8680	1.0433	118	86	110	22.2	680	A317PA10200CB01IMR
Three Core Cables									
10	rm	3.0800	3.7007	48	33	42	16.4	320	A314PA10300CB04IMR
16	rm	1.9100	2.2950	63	44	56	18.6	430	A315PA10300CB04IMR
25	rm	1.2000	1.4421	81	58	76	21.3	555	A316PA10300CB04IMR
35	sm	0.8680	1.0433	90	66	83	21.2	670	A417PA10300CB04IMR
50	sm	0.6410	0.7707	108	80	102	24.6	1715	A418PA10300CB04IMR
70	sm	0.4430	0.5331	132	99	129	27.7	2355	A419PA10300CB04IMR
95	sm	0.3200	0.3856	158	121	159	32.1	3205	A445PA10300CB04IMR
120	sm	0.2530	0.3055	180	138	183	34.0	3940	A446PA10300CB04IMF
Four Core Cables									
10	rm	3.0800	3.7007	48	33	42	17.9	435	A314PA10400CB08IMR
16	rm	1.9100	2.2950	63	44	56	20.3	535	A315PA10400CB08IMR
25	rm	1.2000	1.4421	81	58	76	23.4	675	A316PA10400CB08IMR
35	sm	0.8680	1.0433	90	66	83	24.5	815	A417PA10400CB08IMR
50	sm	0.6410	0.7707	108	80	102	28.7	1075	A418PA10400CB08IMR
70	sm	0.4430	0.5331	132	99	129	32.3	1380	A419PA10400CB08IMR
95	sm	0.3200	0.3856	158	121	159	36.2	1890	A445PA10400CB08IMR
120	sm	0.2530	0.3055	180	138	183	39.6	2270	A446PA10400CB08IMF
150	sm	0.2060	0.2494	202	158	210	44.3	2785	A447PA10400CB08IMF
185	sm	0.1640	0.1994	229	181	243	49.1	3395	A448PA10400CB08IMF
240	sm	0.1250	0.1533	265	214	290	55.6	4390	A449PA10400CB08IMS
300	sm	0.1000	0.1240	300	244	336	61.7	5375	A450PA10400CB08IMS
400	sm	0.0778	0.0984	344	285	396	70.3	6900	A451PA10400CB08IMS
500	sm	0.0605	0.0789	392	328	460	77.8	8640	A452PA10400CB08IMS
Four Core Cables with Reduced Neutral									
50sm	25rm	0.6410 / 1.2000	0.7707 / 1.4421	108	80	102	28.7	995	A436PA10400CB08IMR
70sm	35sm	0.4430 / 0.8680	0.5331 / 1.0433	132	99	129	30.9	1275	A437PA10400CB08IMR
95sm	50sm	0.3200 / 0.6410	0.3856 / 0.7707	158	121	159	34.5	1680	A438PA10400CB08IMR
120sm	70sm	0.2530 / 0.4430	0.3055 / 0.5331	180	138	183	37.9	2060	A439PA10400CB08IMF
150sm	70sm	0.2060 / 0.4430	0.2494 / 0.5331	202	158	210	41.9	2485	A440PA10400CB08IMF
185sm	95sm	0.1640 / 0.3200	0.1994 / 0.3856	229	181	243	46.6	3070	A441PA10400CB08IMF
240sm	120sm	0.1250 / 0.2530	0.1533 / 0.3055	265	214	290	52.6	3900	A442PA10400CB08IMS
300sm	150sm	0.1000 / 0.2060	0.1240 / 0.2494	300	244	336	58.4	4790	A443PA10400CB08IMS
400sm	185sm	0.0778 / 0.1640	0.0984 / 0.1994	344	285	396	66.3	6085	A444PA10400CB08IMS
500sm	240sm	0.0605 / 0.1250	0.0789 / 0.1533	392	328	460	73.5	7545	A446PA10400CB08IMS