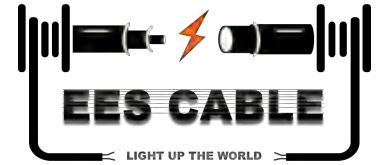


**0.6/1 kV Multi-core cables, XLPE insulated,
unarmoured with aluminum conductor**
Power Cable LV



Multi-Core Cables, with Stranded Aluminium Conductors, XLPE 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



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

Core Identification

- ● Red, Black
- ● ● Red, Yellow, Blue
- ● ● ● Red, Yellow, Blue, Black

Assembly

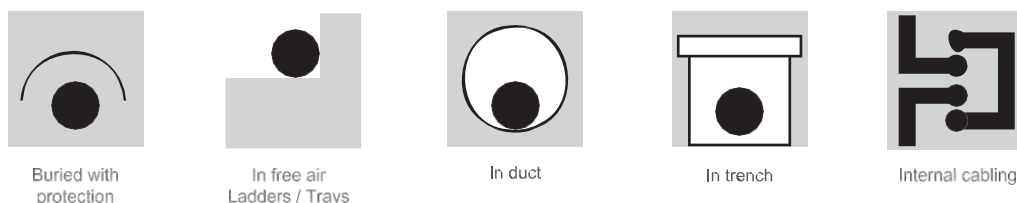
Cores are assembled together using Non-hygroscopic filler, if needed.

Outer Jacket

Extruded layer of Polyvinyl Chloride (PVC) - Type (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 Multi-core cables, XLPE insulated,
unarmoured with aluminum conductor
Power Cable LV



POWER CABLES / IEC 60502-1 AL / XLPE / 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 90 °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	3.9490	70	49	63	13.8	250	A314XA10200MB01IMR
16	rm	1.9100	2.4490	91	64	85	15.8	325	A315XA10200MB01IMR
25	rm	1.2000	1.5388	118	85	116	18.4	455	A316XA10200MB01IMR
35	rm	0.8680	1.1133	142	103	142	21.0	590	A317XA10200MB01IMR
Three Core Cables									
10	rm	3.0800	3.9490	58	41	53	15.1	265	A314XA10300MB04IMR
16	rm	1.9100	2.4490	75	54	72	17.3	370	A315XA10300MB04IMR
25	rm	1.2000	1.5388	98	71	98	20.0	475	A316XA10300MB04IMR
35	sm	0.8680	1.1133	111	82	109	20.0	575	A417XA10300MB04IMR
50	sm	0.6410	0.8224	133	99	134	23.0	720	A418XA10300MB04IMR
70	sm	0.4430	0.5688	163	123	171	26.5	955	A419XA10300MB04IMR
95	sm	0.3200	0.4115	195	150	210	29.9	1235	A445XA10300MB04IMR
120	sm	0.2530	0.3259	222	173	246	33.2	1525	A446XA10300MB04IMF
Four Core Cables									
10	rm	3.0800	3.9490	58	41	53	16.4	365	A314XA10400MB08IMR
16	rm	1.9100	2.4490	75	54	72	18.9	455	A315XA10400MB08IMR
25	rm	1.2000	1.5388	98	71	98	22.0	575	A316XA10400MB08IMR
35	sm	0.8680	1.1133	111	82	109	23.0	685	A417XA10400MB08IMR
50	sm	0.6410	0.8224	133	99	134	26.5	880	A418XA10400MB08IMR
70	sm	0.4430	0.5688	163	123	171	30.8	1190	A419XA10400MB08IMR
95	sm	0.3200	0.4115	195	150	210	33.5	1580	A445XA10400MB08IMR
120	sm	0.2530	0.3259	222	173	246	37.6	1970	A446XA10400MB08IMF
150	sm	0.2060	0.2660	248	196	280	42.1	2410	A447XA10400MB08IMF
185	sm	0.1640	0.2126	282	225	325	47.1	2960	A448XA10400MB08IMF
240	sm	0.1250	0.1634	327	265	388	52.9	3795	A449XA10400MB08IMS
300	sm	0.1000	0.1321	370	304	449	58.5	4635	A450XA10400MB08IMS
400	sm	0.0778	0.1047	424	354	530	67.1	6000	A451XA10400MB08IMS
500	sm	0.0605	0.0838	484	408	618	74.6	7570	A452XA10400MB08IMS
Four Core Cables with Reduced Neutral									
50sm	25rm	0.6410 / 1.2000	0.8224 / 1.5388	133	99	134	26.5	815	A436XA10400MB08IMR
70sm	35sm	0.4430 / 0.8680	0.5688 / 1.1133	163	123	171	29.2	1080	A437XA10400MB08IMR
95sm	50sm	0.3200 / 0.6410	0.4115 / 0.8224	195	150	210	33.0	1420	A438XA10400MB08IMR
120sm	70sm	0.2530 / 0.4430	0.3259 / 0.5688	222	173	246	35.9	1775	A439XA10400MB08IMF
150sm	70sm	0.2060 / 0.4430	0.2660 / 0.5688	248	196	280	39.7	2140	A440XA10400MB08IMF
185sm	95sm	0.1640 / 0.3200	0.2126 / 0.4115	282	225	325	44.6	2670	A441XA10400MB08IMF
240sm	120sm	0.1250 / 0.2530	0.1634 / 0.3259	327	265	388	49.9	3380	A442XA10400MB08IMS
300sm	150sm	0.1000 / 0.2060	0.1321 / 0.2660	370	304	449	55.2	4130	A443XA10400MB08IMS
400sm	185sm	0.0778 / 0.1640	0.1047 / 0.2126	424	354	530	63.1	5255	A444XA10400MB08IMS
500sm	240sm	0.0605 / 0.1250	0.0838 / 0.1634	484	408	618	70.3	6600	A466XA10400MB08IMS