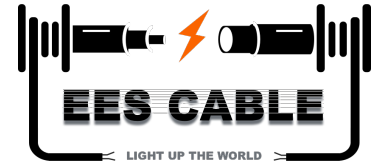


0.6/1 kV Multi-core cables, XLPE insulated, tape armoured with aluminum conductor
Power Cable LV



Multi-Core Cables, with Stranded Aluminium Conductors, XLPE 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 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.

Bedding

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

Armouring

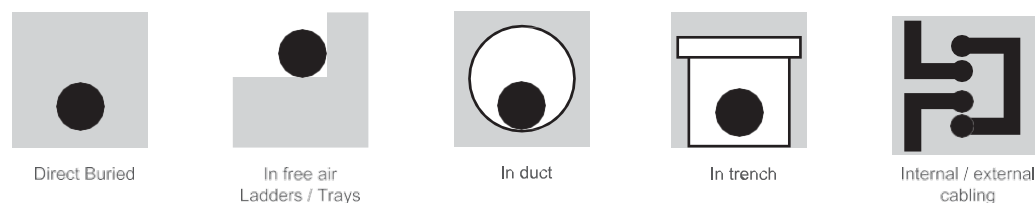
Double layers of galvanized steel tapes.

Outer Jacket

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST2) 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, XLPE insulated, tape armoured with aluminum conductor
Power Cable LV



POWER CABLES / IEC 60502-1 AL / XLPE / 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 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	68	50	64	16.6	410	A314XA1020GMB01IMR
16	rm	1.9100	2.4490	89	65	85	18.6	515	A315XA1020GMB01IMR
25	rm	1.2000	1.5388	115	86	115	21.2	675	A316XA1020GMB01IMR
35	rm	0.8680	1.1133	138	104	140	23.8	840	A317XA1020GMB01IMR
Three Core Cables									
10	rm	3.0800	3.9490	57	41	54	17.9	440	A314XA1030GMB04IMR
16	rm	1.9100	2.4490	73	54	72	20.1	545	A315XA1030GMB04IMR
25	rm	1.2000	1.5388	95	72	97	22.8	700	A316XA1030GMB04IMR
35	sm	0.8680	1.1133	108	82	108	22.8	750	A417XA1030GMB04IMR
50	sm	0.6410	0.8224	129	99	132	25.8	930	A418XA1030GMB04IMR
70	sm	0.4430	0.5688	158	124	167	29.7	1235	A419XA1030GMB04IMR
95	sm	0.3200	0.4115	189	150	204	33.3	1575	A445XA1030GMB04IMF
120	sm	0.2530	0.3259	217	174	241	37.8	2245	A446XA1030GMB04IMF
Four Core Cables									
10	rm	3.0800	3.9490	57	41	54	19.2	515	A314XA1040GMB08IMR
16	rm	1.9100	2.4490	73	54	72	21.7	640	A315XA1040GMB08IMR
25	rm	1.2000	1.5388	95	72	97	24.8	845	A316XA1040GMB08IMR
35	sm	0.8680	1.1133	108	82	108	25.8	930	A417XA1040GMB08IMR
50	sm	0.6410	0.8224	129	99	132	29.5	1180	A418XA1040GMB08IMR
70	sm	0.4430	0.5688	158	124	167	34.0	1560	A419XA1040GMB08IMR
95	sm	0.3200	0.4115	189	150	204	38.1	2315	A445XA1040GMB08IMF
120	sm	0.2530	0.3259	217	174	241	42.6	2845	A446XA1040GMB08IMF
150	sm	0.2060	0.2660	241	196	272	47.1	3390	A447XA1040GMB08IMF
185	sm	0.1640	0.2126	274	255	314	52.1	4075	A448XA1040GMB08IMS
240	sm	0.1250	0.1634	317	264	372	58.3	5105	A449XA1040GMB08IMS
300	sm	0.1000	0.1321	357	301	428	63.9	6085	A450XA1040GMB08IMS
400	sm	0.0778	0.1047	410	349	503	72.9	7705	A451XA1040GMB08IMS
500	sm	0.0605	0.0838	464	400	580	81.8	10245	A452XA1040GMB08IMS
Four Core Cables with Reduced Neutral									
50sm	25rm	0.6410 / 1.2000	0.8224 / 1.5388	129	99	132	29.3	1125	A436XA1040GMB08IMR
70sm	35sm	0.4430 / 0.8680	0.5688 / 1.1133	158	124	167	32.6	1435	A437XA1040GMB08IMR
95sm	50sm	0.3200 / 0.6410	0.4115 / 0.8224	189	150	204	37.4	2140	A438XA1040GMB08IMR
120sm	70sm	0.2530 / 0.4430	0.3259 / 0.5688	217	174	241	40.5	2580	A439XA1040GMB08IMF
150sm	70sm	0.2060 / 0.4430	0.2660 / 0.5688	241	196	272	44.7	3045	A440XA1040GMB08IMF
185sm	95sm	0.1640 / 0.3200	0.2126 / 0.4115	274	255	314	49.6	3690	A441XA1040GMB08IMF
240sm	120sm	0.1250 / 0.2530	0.1634 / 0.3259	317	264	372	55.5	4590	A442XA1040GMB08IMS
300sm	150sm	0.1000 / 0.2060	0.1321 / 0.2660	357	301	428	60.6	5445	A443XA1040GMB08IMS
400sm	185sm	0.0778 / 0.1640	0.1047 / 0.2126	410	349	503	68.5	6805	A444XA1040GMB08IMS
500sm	240sm	0.0605 / 0.1250	0.0838 / 0.1634	464	400	580	76.1	8405	A466XA1040GMB08IMS