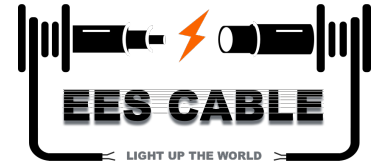


0.6/1 kV Multi-core cables, XLPE insulated, wire armoured with aluminum conductor

Power Cable LV



Multi-Core Cables, with Stranded Aluminum Conductors, XLPE 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



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

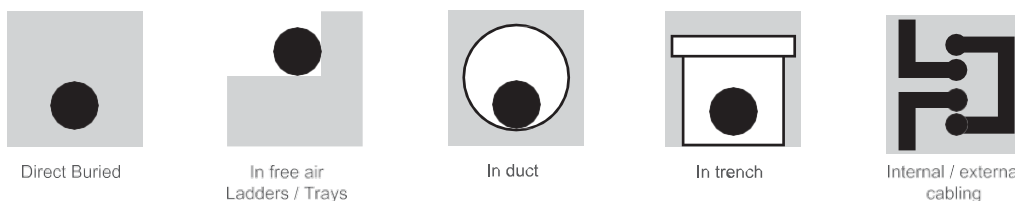
Single layer of round galvanized steel wires.

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, wire armoured with aluminum conductor
Power Cable LV



POWER CABLES / IEC 60502-1 AL / XLPE / 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 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	69	51	67	18.3	660	A314XA1020WMB01MR
16	rm	1.9100	2.4490	90	67	88	20.3	800	A315XA1020WMB01MR
25	rm	1.2000	1.5388	117	89	120	23.6	1130	A316XA1020WMB01MR
35	rm	0.8680	1.1133	140	107	146	26.2	1360	A317XA1020WMB01MR
Three Core Cables									
10	rm	3.0800	3.9490	57	43	56	19.6	705	A314XA1030WMB04IMR
16	rm	1.9100	2.4490	74	56	74	21.8	855	A315XA1030WMB04IMR
25	rm	1.2000	1.5388	97	74	101	25.2	1195	A316XA1030WMB04IMR
35	sm	0.8680	1.1133	110	85	113	25.2	1245	A417XA1030WMB04IMR
50	sm	0.6410	0.8224	131	102	137	28.4	1525	A418XA1030WMB04IMR
70	sm	0.4430	0.5688	160	127	173	33.1	2125	A419XA1030WMB04IMR
95	sm	0.3200	0.4115	191	153	211	36.7	2585	A445XA1030WMB04IMF
120	sm	0.2530	0.3259	218	176	245	40.0	3005	A446XA1030WMB04IMF
Four Core Cables									
10	rm	3.0800	3.9490	57	43	56	20.9	810	A314XA1040WMB08IMR
16	rm	1.9100	2.4490	74	56	74	24.1	1105	A315XA1040WMB08IMR
25	rm	1.2000	1.5388	97	74	101	27.2	1395	A316XA1040WMB08IMR
35	sm	0.8680	1.1133	110	85	113	28.4	1525	A417XA1040WMB08IMR
50	sm	0.6410	0.8224	131	102	137	32.1	1855	A418XA1040WMB08IMR
70	sm	0.4430	0.5688	160	127	173	37.6	2605	A419XA1040WMB08IMR
95	sm	0.3200	0.4115	191	153	211	40.3	3100	A445XA1040WMB08IMF
120	sm	0.2530	0.3259	218	176	245	45.8	4085	A446XA1040WMB08IMF
150	sm	0.2060	0.2660	243	199	278	50.3	4770	A447XA1040WMB08IMF
185	sm	0.1640	0.2126	274	228	320	55.3	5600	A448XA1040WMB08IMS
240	sm	0.1250	0.1634	317	265	376	61.5	6835	A449XA1040WMB08IMS
300	sm	0.1000	0.1321	356	301	430	67.1	7985	A450XA1040WMB08IMS
400	sm	0.0778	0.1047	404	346	501	77.4	10730	A451XA1040WMB08IMS
500	sm	0.0605	0.0838	452	393	574	85.1	12875	A452XA1040WMB08IMS
Four Core Cables with Reduced Neutral									
50sm	25rm	0.6410 / 1.2000	0.8224 / 1.5388	131	102	137	31.9	1800	A436XA1040WMB08IMR
70sm	35sm	0.4430 / 0.8680	0.5688 / 1.1133	160	127	173	36.0	2420	A437XA1040WMB08IMR
95sm	50sm	0.3200 / 0.6410	0.4115 / 0.8224	191	153	211	39.6	2905	A438XA1040WMB08IMR
120sm	70sm	0.2530 / 0.4430	0.3259 / 0.5688	218	176	245	42.7	3410	A439XA1040WMB08IMF
150sm	70sm	0.2060 / 0.4430	0.2660 / 0.5688	243	199	278	47.9	4375	A440XA1040WMB08IMF
185sm	95sm	0.1640 / 0.3200	0.2126 / 0.4115	274	228	320	52.8	5160	A441XA1040WMB08IMF
240sm	120sm	0.1250 / 0.2530	0.1634 / 0.3259	317	265	376	58.7	6230	A442XA1040WMB08IMF
300sm	150sm	0.1000 / 0.2060	0.1321 / 0.2660	356	301	430	63.8	7255	A443XA1040WMB08IMS
400sm	185sm	0.0778 / 0.1640	0.1047 / 0.2126	404	346	501	73.0	9685	A444XA1040WMB08IMS
500sm	240sm	0.0605 / 0.1250	0.0838 / 0.1634	452	393	574	80.8	11615	A466XA1040WMB08IMS