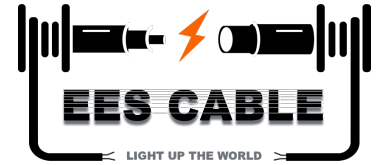


0.6/1 kV Multi-core cables, XLPE insulated, wire armoured with copper conductor

Power Cable LV



Multi-Core Cables, with Stranded Copper 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

Plain annealed stranded circular (rm) or sector shaped (sm) copper 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

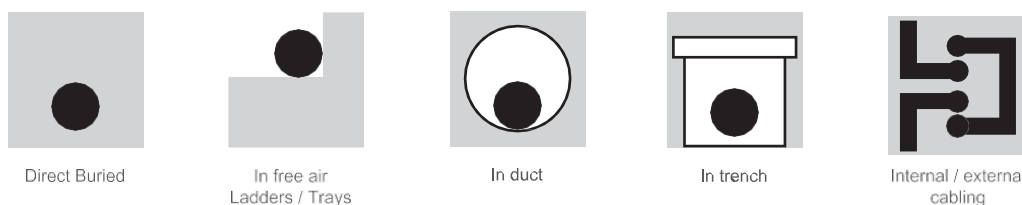
Single layer of round galvanized steel wires.

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 copper conductor

Power Cable LV



POWER CABLES / IEC 60502-1 CU / 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									
1.5	rm	12.1000	15.4287	33	24	29	13.1	340	C208XA1020WMB01IMR
2.5	rm	7.4100	9.4485	42	31	38	14.0	395	C210XA1020WMB01IMR
4	rm	4.6100	5.8783	55	40	51	15.1	465	C212XA1020WMB01IMR
6	rm	3.0800	3.9274	68	50	64	16.2	550	C213XA1020WMB01IMR
10	rm	1.8300	2.3336	90	67	87	18.3	775	C314XA1020WMB01IMR
16	rm	1.1500	1.4667	116	87	114	20.3	990	C315XA1020WMB01IMR
25	rm	0.7270	0.9275	151	114	154	24.1	1465	C316XA1020WMB01IMR
35	rm	0.5240	0.6688	180	138	188	26.2	1780	C317XA1020WMB01IMR
Three Core Cables									
1.5	rm	12.1000	15.4287	27	19	24	13.6	365	C208XA1030WMB04IMR
2.5	rm	7.4100	9.4485	35	25	32	14.6	435	C210XA1030WMB04IMR
4	rm	4.6100	5.8783	45	33	42	15.7	520	C212XA1030WMB04IMR
6	rm	3.0800	3.9274	56	41	53	17.0	630	C213XA1030WMB04IMR
10	rm	1.8300	2.3336	75	56	73	19.6	885	C314XA1030WMB04IMR
16	rm	1.1500	1.4667	96	72	96	21.8	1140	C315XA1030WMB04IMR
25	rm	0.7270	0.9275	125	95	130	25.8	1675	C316XA1030WMB04IMR
35	sm	0.5240	0.6688	142	109	145	25.2	1880	C417XA1030WMB04IMR
50	sm	0.3870	0.4944	169	132	177	28.4	2385	C418XA1030WMB04IMR
70	sm	0.2680	0.3431	206	163	222	33.1	3385	C419XA1030WMB04IMR
95	sm	0.1930	0.2481	246	197	271	36.7	4320	C445XA1030WMB04IMF
120	sm	0.1530	0.1976	279	226	314	40.0	5190	C446XA1030WMB04IMF
Four Core Cables									
1.5	rm	12.1000	15.4287	27	19	24	14.4	410	C208XA1040WMB08IMR
2.5	rm	7.4100	9.4485	35	25	32	15.5	490	C210XA1040WMB08IMR
4	rm	4.6100	5.8783	45	33	42	16.8	600	C212XA1040WMB08IMR
6	rm	3.0800	3.9274	56	41	53	19.0	855	C213XA1040WMB08IMR
10	rm	1.8300	2.3336	75	56	73	20.9	1045	C314XA1040WMB08IMR
16	rm	1.1500	1.4667	96	72	96	24.1	1490	C315XA1040WMB08IMR
25	rm	0.7270	0.9275	125	95	130	27.8	2025	C316XA1040WMB08IMR
35	sm	0.5240	0.6688	142	109	145	28.4	2370	C417XA1040WMB08IMR
50	sm	0.3870	0.4944	169	132	177	32.1	3000	C418XA1040WMB08IMR
70	sm	0.2680	0.3431	206	163	222	37.6	4285	C419XA1040WMB08IMR
95	sm	0.1930	0.2481	246	197	271	40.3	5410	C445XA1040WMB08IMF
120	sm	0.1530	0.1976	279	226	314	45.8	7000	C446XA1040WMB08IMF
150	sm	0.1240	0.1612	311	255	356	50.3	8370	C447XA1040WMB08IMF
185	sm	0.0991	0.1302	349	290	407	55.3	10110	C448XA1040WMB08IMS
240	sm	0.0754	0.1012	400	336	470	61.5	12720	C449XA1040WMB08IMS
300	sm	0.0601	0.0829	446	378	541	67.1	15450	C450XA1040WMB08IMS
400	sm	0.0470	0.0676	499	427	620	77.4	20280	C451XA1040WMB08IMS
500	sm	0.0366	0.0561	546	474	695	85.1	25405	C452XA1040WMB08IMS
Four Core Cables with Reduced Neutral									
25rm	16rm	0.7270 / 1.1500	0.9275 / 1.4667	125	95	130	26.9	1905	C334XA1040WMB08IMR
35sm	16rm	0.5240 / 1.1500	0.6688 / 1.4667	142	109	145	28.2	2210	C435XA1040WMB08IMR
50sm	25rm	0.3870 / 0.7270	0.4944 / 0.9275	169	132	177	31.9	2810	C436XA1040WMB08IMR
70sm	35sm	0.2680 / 0.5240	0.3431 / 0.6688	206	163	222	36.0	3890	C437XA1040WMB08IMR
95sm	50sm	0.1930 / 0.3870	0.2481 / 0.4944	246	197	271	39.6	4925	C438XA1040WMB08IMF
120sm	70sm	0.1530 / 0.2680	0.1976 / 0.3431	279	226	314	42.7	6015	C439XA1040WMB08IMF
150sm	70sm	0.1240 / 0.2680	0.1612 / 0.3431	311	255	356	47.9	7495	C440XA1040WMB08IMF
185sm	95sm	0.0991 / 0.1930	0.1302 / 0.2481	349	290	407	52.8	9120	C441XA1040WMB08IMF
240sm	120sm	0.0754 / 0.1530	0.1012 / 0.1976	400	336	470	58.7	11375	C442XA1040WMB08IMS
300sm	150sm	0.0601 / 0.1240	0.0829 / 0.1612	446	378	541	63.8	13755	C443XA1040WMB08IMS
400sm	185sm	0.0470 / 0.0991	0.0676 / 0.1302	499	427	620	73.0	17975	C444XA1040WMB08IMS
500sm	240sm	0.0366 / 0.0754	0.0561 / 0.1012	546	474	695	80.8	22485	C466XA1040WMB08IMS