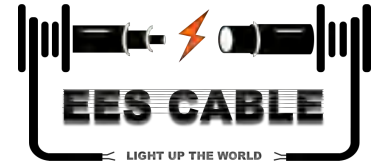


0.6/1 kV Multi-core cables, PVC insulated, wire armoured with copper conductor

Power Cable LV



Multi-Core Cables, with Stranded Copper Conductors, PVC 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 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.

Bedding

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST1) to IEC 60502-1.

Armouring

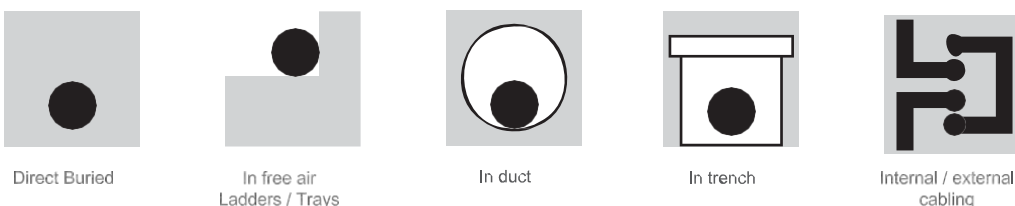
Single layer of round galvanized steel wires.

Outer Jacket

Extruded layer of Polyvinyl Chloride (PVC) - Type (ST1) 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, PVC insulated, wire armoured with copper conductor

Power Cable LV



POWER CABLES / IEC 60502-1 CU / PVC / 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 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									
1.5	rm	12.1000	14.4777	27	20	23	13.5	365	C208PA1020WCB01IMR
2.5	rm	7.4100	8.8661	35	25	30	14.4	420	C210PA1020WCB01IMR
4	rm	4.6100	5.5159	46	34	40	16.3	535	C212PA1020WCB01IMR
6	rm	3.0800	3.6853	57	42	51	18.3	750	C213PA1020WCB01IMR
10	rm	1.8300	2.1898	75	56	68	19.5	870	C314PA1020WCB01IMR
16	rm	1.1500	1.3763	97	72	89	21.5	1095	C315PA1020WCB01IMR
25	rm	0.7270	0.8703	125	95	120	25.3	1605	C316PA1020WCB01IMR
35	rm	0.5240	0.6276	149	115	146	27.4	1910	C317PA1020WCB01IMR
Three Core Cables									
1.5	rm	12.1000	14.4777	22	16	19	14.0	400	C208PA1030WCB04IMR
2.5	rm	7.4100	8.8661	29	21	25	15.0	470	C210PA1030WCB04IMR
4	rm	4.6100	5.5159	38	27	34	17.9	725	C212PA1030WCB04IMR
6	rm	3.0800	3.6853	47	34	42	19.2	840	C213PA1030WCB04IMR
10	rm	1.8300	2.1898	62	45	57	20.9	980	C314PA1030WCB04IMR
16	rm	1.1500	1.3763	80	59	75	23.1	1240	C315PA1030WCB04IMR
25	rm	0.7270	0.8703	104	78	101	27.1	1815	C316PA1030WCB04IMR
35	sm	0.5240	0.6276	115	88	110	26.4	2020	C417PA1030WCB04IMR
50	sm	0.3870	0.4639	137	106	134	30.2	2595	C418PA1030WCB04IMR
70	sm	0.2680	0.3220	167	131	168	34.5	3605	C419PA1030WCB04IMR
95	sm	0.1930	0.2328	200	159	205	38.7	4630	C445PA1030WCB04IMF
120	sm	0.1530	0.1856	226	180	235	40.6	5435	C446PA1030WCB04IMF
Four Core Cables									
1.5	rm	12.1000	14.4777	22	16	19	14.9	450	C208PA1040WCB08IMR
2.5	rm	7.4100	8.8661	29	21	25	15.9	530	C210PA1040WCB08IMR
4	rm	4.6100	5.5159	38	27	34	19.1	820	C212PA1040WCB08IMR
6	rm	3.0800	3.6853	47	34	42	20.5	970	C213PA1040WCB08IMR
10	rm	1.8300	2.1898	62	45	57	22.4	1165	C314PA1040WCB08IMR
16	rm	1.1500	1.3763	80	59	75	25.5	1630	C315PA1040WCB08IMR
25	rm	0.7270	0.8703	104	78	101	29.3	2190	C316PA1040WCB08IMR
35	sm	0.5240	0.6276	115	88	110	29.9	2545	C417PA1040WCB08IMR
50	sm	0.3870	0.4639	137	106	134	35.5	3540	C418PA1040WCB08IMR
70	sm	0.2680	0.3220	167	131	168	39.1	4535	C419PA1040WCB08IMR
95	sm	0.1930	0.2328	200	159	205	44.0	6220	C445PA1040WCB08IMF
120	sm	0.1530	0.1856	226	180	235	47.8	7440	C446PA1040WCB08IMF
150	sm	0.1240	0.1514	252	205	268	52.5	8855	C447PA1040WCB08IMF
185	sm	0.0991	0.1224	283	232	306	57.9	10765	C448PA1040WCB08IMS
240	sm	0.0754	0.0952	325	269	358	64.2	13470	C449PA1040WCB08IMS
300	sm	0.0601	0.0780	362	303	406	70.3	16340	C450PA1040WCB08IMS
400	sm	0.0470	0.0638	402	342	465	80.6	21420	C451PA1040WCB08IMS
500	sm	0.0366	0.0531	442	379	521	88.3	26650	C452PA1040WCB08IMS
Four Core Cables with Reduced Neutral									
25rm	16rm	0.7270 / 1.1500	0.8703 / 1.3763	104	78	101	28.3	2065	C334PA1040WCB08IMR
35sm	16rm	0.5240 / 1.1500	0.6276 / 1.3763	115	88	110	29.9	2385	C435PA1040WCB08IMR
50sm	25rm	0.3870 / 0.7270	0.4639 / 0.8703	137	106	134	35.5	3300	C436PA1040WCB08IMR
70sm	35sm	0.2680 / 0.5240	0.3220 / 0.6276	167	131	168	39.1	4135	C437PA1040WCB08IMR
95sm	50sm	0.1930 / 0.3870	0.2328 / 0.4639	200	159	205	44.0	5270	C438PA1040WCB08IMF
120sm	70sm	0.1530 / 0.2680	0.1856 / 0.3220	226	180	235	47.8	6860	C439PA1040WCB08IMF
150sm	70sm	0.1240 / 0.2680	0.1514 / 0.3220	252	205	268	52.5	7945	C440PA1040WCB08IMF
185sm	95sm	0.0991 / 0.1930	0.1224 / 0.2328	283	232	306	57.9	9625	C441PA1040WCB08IMF
240sm	120sm	0.0754 / 0.1530	0.0952 / 0.1856	325	269	358	64.2	12020	C442PA1040WCB08IMS
300sm	150sm	0.0601 / 0.1240	0.0780 / 0.1514	362	303	406	70.3	14575	C443PA1040WCB08IMS
400sm	185sm	0.0470 / 0.0991	0.0638 / 0.1224	402	342	465	80.6	19105	C444PA1040WCB08IMS
500sm	240sm	0.0366 / 0.0754	0.0531 / 0.0952	442	379	521	88.3	23670	C466PA1040WCB08IMS