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

Power Cable LV

Multi-Core Cables, with Stranded Copper Conductors, PVC 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

Max. Operating temperature | Max. Short circuit temperature | Flame propagation IEC 60332-1-2 | Oil resistant ASTM D 1047 | Mechanical impact Very Good | UV Resistant | Min. bending radius (r) = 12 Ø

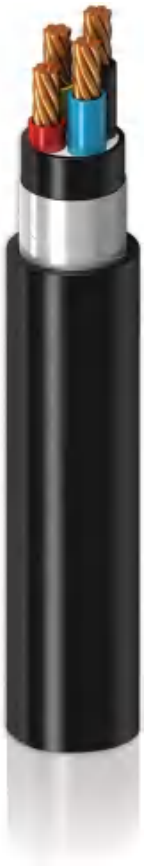
APPLICABLE STANDARDS

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

Double layers of galvanized steel tapes.

Outer Jacket

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

Note: The core identification color(s) shown above is/are the most common. However, any other color can be provided upon a customer's request.(e.g. to HD 308 S2 or IEC 60445)

CABLE INSTALLATION

Direct Buried | In free air Ladders / Trays | In duct | In trench | Internal / external cabling

POWER CABLES / IEC 60502-1 CU / PVC / 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 70 °C	Laid in ground	Laid in ducts	Laid in free air			
mm²		Ω / km	Ω / km	A	A	A	mm	kg / km	
Two Core Cables									
6	rm	3.0800	3.6853	56	41	49	16.6	495	C213PA1020GCB01IMR
10	rm	1.8300	2.1898	74	54	65	17.8	600	C314PA1020GCB01IMR
16	rm	1.1500	1.3763	95	71	86	19.8	785	C315PA1020GCB01IMR
25	rm	0.7270	0.8703	123	93	115	22.9	1095	C316PA1020GCB01IMR
35	rm	0.5240	0.6276	147	112	140	25.0	1365	C317PA1020GCB01IMR
Three Core Cables									
6	rm	3.0800	3.6853	46	33	41	17.5	575	C213PA1030GCB04IMR
10	rm	1.8300	2.1898	61	44	55	19.2	685	C314PA1030GCB04IMR
16	rm	1.1500	1.3763	79	58	72	21.4	910	C315PA1030GCB04IMR
25	rm	0.7270	0.8703	102	75	97	24.7	1265	C316PA1030GCB04IMR
35	sm	0.5240	0.6276	114	86	106	24.0	1500	C417PA1030GCB04IMR
50	sm	0.3870	0.4639	135	103	130	27.6	1960	C418PA1030GCB04IMR
70	sm	0.2680	0.3220	165	128	162	31.1	2665	C419PA1030GCB04IMR
95	sm	0.1930	0.2328	199	157	202	36.7	3900	C445PA1030GCB04IMF
120	sm	0.1530	0.1856	225	178	231	38.6	4675	C446PA1030GCB04IMF
Four Core Cables									
4	rm	4.6100	5.5159	37	27	32	17.4	560	C212PA1040GCB08IMR
6	rm	3.0800	3.6853	46	33	41	18.8	690	C213PA1040GCB08IMR
10	rm	1.8300	2.1898	61	44	55	20.7	840	C314PA1040GCB08IMR
16	rm	1.1500	1.3763	79	58	72	23.1	1115	C315PA1040GCB08IMR
25	rm	0.7270	0.8703	102	75	97	26.9	1590	C316PA1040GCB08IMR
35	sm	0.5240	0.6276	114	86	106	27.3	1925	C417PA1040GCB08IMR
50	sm	0.3870	0.4639	135	103	130	32.1	2580	C418PA1040GCB08IMR
70	sm	0.2680	0.3220	165	128	162	36.9	3790	C419PA1040GCB08IMR
95	sm	0.1930	0.2328	199	157	202	40.8	5000	C445PA1040GCB08IMF
120	sm	0.1530	0.1856	225	178	231	44.6	6105	C446PA1040GCB08IMF
150	sm	0.1240	0.1514	252	203	264	49.3	7420	C447PA1040GCB08IMF
185	sm	0.0991	0.1224	284	231	303	54.5	9130	C448PA1040GCB08IMS
240	sm	0.0754	0.0952	327	270	356	61.0	11655	C449PA1040GCB08IMS
300	sm	0.0601	0.0780	366	305	407	67.1	14370	C450PA1040GCB08IMS
400	sm	0.0470	0.0638	414	350	471	76.1	18245	C451PA1040GCB08IMS
500	sm	0.0366	0.0531	462	394	535	85.0	23960	C452PA1040GCB08IMS
Four Core Cables with Reduced Neutral									
25	rm 16	rm 0.7270 / 1.1500	0.8703 / 1.3763	102	75	97	25.9	1485	C334PA1040GCB08IMR
35	sm 16	rm 0.5240 / 1.1500	0.6276 / 1.3763	114	86	106	27.3	1770	C435PA1040GCB08IMR
50	sm 25	rm 0.3870 / 0.7270	0.4639 / 0.8703	135	103	130	31.5	2340	C436PA1040GCB08IMR
70	sm 35	sm 0.2680 / 0.5240	0.3220 / 0.6276	165	128	162	34.1	3110	C437PA1040GCB08IMR
95	sm 50	sm 0.1930 / 0.3870	0.2328 / 0.4639	199	157	202	39.1	4475	C438PA1040GCB08IMF
120	sm 70	sm 0.1530 / 0.2680	0.1856 / 0.3220	225	178	231	42.9	5565	C439PA1040GCB08IMF
150	sm 70	sm 0.1240 / 0.2680	0.1514 / 0.3220	252	203	264	46.9	6565	C440PA1040GCB08IMF
185	sm 95	sm 0.0991 / 0.1930	0.1224 / 0.2328	284	231	303	51.6	8100	C441PA1040GCB08IMF
240	sm 120	sm 0.0754 / 0.1530	0.0952 / 0.1856	327	270	356	58.0	10295	C442PA1040GCB08IMS
300	sm 150	sm 0.0601 / 0.1240	0.0780 / 0.1514	366	305	407	63.8	12680	C443PA1040GCB08IMS
400	sm 185	sm 0.0470 / 0.0991	0.0638 / 0.1224	414	350	471	72.1	16075	C444PA1040GCB08IMS
500	sm 240	sm 0.0366 / 0.0754	0.0531 / 0.0952	462	394	535	80.7	21085	C466PA1040GCB08IMS