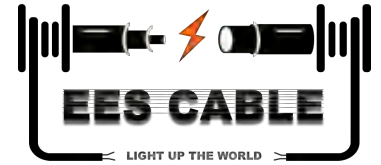


0.6/1 kV Multi-core cables, XLPE insulated, tape armoured with copper conductor

Power Cable LV



Multi-Core Cables, with Stranded Copper 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

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

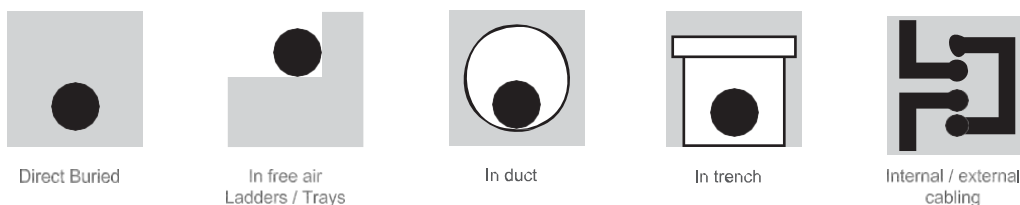
Double layers of galvanized steel tapes.

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 copper conductor
Power Cable LV



POWER CABLES / IEC 60502-1 CU / 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									
6	rm	3.0800	3.9274	67	49	62	15.4	430	C213XA1020GMB01IMR
10	rm	1.8300	2.3336	89	65	83	16.6	530	C314XA1020GMB01IMR
16	rm	1.1500	1.4667	114	84	110	18.6	705	C315XA1020GMB01IMR
25	rm	0.7270	0.9275	148	111	148	21.7	1000	C316XA1020GMB01IMR
35	rm	0.5240	0.6688	177	134	180	23.8	1260	C317XA1020GMB01IMR
Three Core Cables									
6	rm	3.0800	3.9274	55	40	52	16.2	500	C213XA1030GMB04IMR
10	rm	1.8300	2.3336	74	54	70	17.9	615	C314XA1030GMB04IMR
16	rm	1.1500	1.4667	95	70	93	20.1	835	C315XA1030GMB04IMR
25	rm	0.7270	0.9275	123	92	124	23.4	1170	C316XA1030GMB04IMR
35	sm	0.5240	0.6688	140	106	140	22.8	1390	C417XA1030GMB04IMR
50	sm	0.3870	0.4944	166	128	171	25.8	1790	C418XA1030GMB04IMR
70	sm	0.2680	0.3431	203	159	215	29.7	2495	C419XA1030GMB04IMR
95	sm	0.1930	0.2481	243	193	263	33.3	3310	C445XA1030GMB04IMF
120	sm	0.1530	0.1976	278	224	310	37.8	4430	C446XA1030GMB04IMF
Four Core Cables									
4	rm	4.6100	5.8783	45	32	41	16.0	480	C212XA1040GMB08IMR
6	rm	3.0800	3.9274	55	40	52	17.3	590	C213XA1040GMB08IMR
10	rm	1.8300	2.3336	74	54	70	19.2	755	C314XA1040GMB08IMR
16	rm	1.1500	1.4667	95	70	93	21.7	1020	C315XA1040GMB08IMR
25	rm	0.7270	0.9275	123	92	124	25.4	1465	C316XA1040GMB08IMR
35	sm	0.5240	0.6688	140	106	140	25.8	1780	C417XA1040GMB08IMR
50	sm	0.3870	0.4944	166	128	171	29.5	2320	C418XA1040GMB08IMR
70	sm	0.2680	0.3431	203	159	215	34.0	3235	C419XA1040GMB08IMR
95	sm	0.1930	0.2481	243	193	263	38.1	4630	C445XA1040GMB08IMF
120	sm	0.1530	0.1976	278	224	310	42.6	5760	C446XA1040GMB08IMF
150	sm	0.1240	0.1612	310	252	349	47.1	6990	C447XA1040GMB08IMF
185	sm	0.0991	0.1302	349	287	402	52.1	8590	C448XA1040GMB08IMS
240	sm	0.0754	0.1012	402	335	473	58.3	10995	C449XA1040GMB08IMS
300	sm	0.0601	0.0829	452	380	541	63.9	13550	C450XA1040GMB08IMS
400	sm	0.0470	0.0676	511	435	627	72.9	17260	C451XA1040GMB08IMS
500	sm	0.0366	0.0561	570	491	713	81.8	22775	C452XA1040GMB08IMS
Four Core Cables with Reduced Neutral									
25rm	16rm	0.7270 / 1.1500	0.9275 / 1.4667	123	92	124	24.5	1370	C334XA1040GMB08IMR
35sm	16rm	0.5240 / 1.1500	0.6688 / 1.4667	140	106	140	25.8	1635	C435XA1040GMB08IMR
50sm	25rm	0.3870 / 0.7270	0.4944 / 0.9275	166	128	171	29.3	2135	C436XA1040GMB08IMR
70sm	35sm	0.2680 / 0.5240	0.3431 / 0.6688	203	159	215	32.6	2905	C437XA1040GMB08IMR
95sm	50sm	0.1930 / 0.3870	0.2481 / 0.4944	243	193	263	37.4	4160	C438XA1040GMB08IMF
120sm	70sm	0.1530 / 0.2680	0.1976 / 0.3431	278	224	310	40.5	5185	C439XA1040GMB08IMF
150sm	70sm	0.1240 / 0.2680	0.1612 / 0.3431	310	252	349	44.7	6165	C440XA1040GMB08IMF
185sm	95sm	0.0991 / 0.1930	0.1302 / 0.2481	349	287	402	49.6	7650	C441XA1040GMB08IMF
240sm	120sm	0.0754 / 0.1530	0.1012 / 0.1976	402	335	473	55.5	9735	C442XA1040GMB08IMS
300sm	150sm	0.0601 / 0.1240	0.0829 / 0.1612	452	380	541	60.6	11940	C443XA1040GMB08IMS
400sm	185sm	0.0470 / 0.0991	0.0676 / 0.1302	511	435	627	68.5	15100	C444XA1040GMB08IMS
500sm	240sm	0.0366 / 0.0754	0.0561 / 0.1012	570	491	713	76.1	19270	C466XA1040GMB08IMS