

Medium CABLES 18/30 (36) kV

Three Cores Copper or Aluminium Conductors,
XLPE Insulated, Steel Wire Armoured
and PVC Sheathed
(CU/XLPE/SWA/PVC)
(AL/XLPE/SWA/PVC)

Description

- Stranded circular compacted Copper or Aluminium conductor, semiconducting layer as conductor screen, XLPE insulated, semiconducting layer as non metallic insulation screen, Copper tape or wire as metallic insulation screen, three cores assembled together with non hygroscopic Polypropylene fillers, wrapped with binder tape, covered with a layer of PVC compound as a bedding, steel wire armoured and PVC sheathed.
- Cables are produced according to IEC 60502 or BS 6622.

Application

- These cables are generally suitable for direct burial or for installation on trays or in ducts.
- Where there is a Risk of mechanical damage , armoured cables should be used.



Nominal Cross Sectional Area	Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	AC at 90 °C			Laid in ground	Laid in free air		
mm ²	Ω/km	Ω/km	µf/km	mh/km	A	A	mm	kg/km

Three Cores, Copper Conductor Cables

50	0.3870	0.4938	0.138	0.436	187	195	74.7	8910
70	0.2680	0.3423	0.156	0.410	227	241	78.8	10025
95	0.1930	0.2469	0.167	0.395	269	289	81.8	11175
120	0.1530	0.1961	0.180	0.381	305	331	85.2	12500
150	0.1240	0.1595	0.192	0.368	340	372	88.4	13595
185	0.0991	0.1282	0.208	0.353	381	423	92.5	15255
240	0.0754	0.0986	0.228	0.338	436	494	98.3	17665
300	0.0601	0.0799	0.252	0.327	485	556	104.5	20405
400	0.0470	0.0629	0.276	0.310	537	612	113.2	23675

Three Cores, Aluminium Conductor Cables

50	0.6410	0.8220	0.138	0.436	145	152	74.3	7810
70	0.4430	0.5683	0.156	0.410	177	188	78.3	8560
95	0.3200	0.4107	0.167	0.395	210	225	81.8	9265
120	0.2530	0.3250	0.180	0.381	238	259	85.2	9995
150	0.2060	0.2649	0.192	0.368	265	291	88.6	10800
185	0.1640	0.2114	0.208	0.353	300	332	92.5	11615
240	0.1250	0.1618	0.228	0.338	346	391	98.0	12880
300	0.1000	0.1302	0.252	0.327	387	442	103.8	14300
400	0.0778	0.1023	0.276	0.310	434	495	113.2	16315

- This data is applicable for 6.35 / 11 kV cables.
- The above amapacity are caleulated based on double end bonding.
- The amapacity for single core sizes 800 & 1000mm² was based on a single end bonding.
- The above data is approximate and subjected to manufacturing tolerance.