

Medium CABLES 12/20 (24) kV

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

Description

- Stranded circular compacted 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 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	Currentm 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								
35	0.5240	0.6684	0.159	0.427	158	164	57.3	5560
50	0.3870	0.4938	0.177	0.394	187	195	60.8	6295
70	0.2680	0.3423	0.202	0.370	227	241	64.9	7280
95	0.1930	0.2469	0.217	0.357	269	289	67.9	8300
120	0.1530	0.1961	0.236	0.345	305	331	73.2	10350
150	0.1240	0.1595	0.254	0.336	340	372	76.8	11670
185	0.0991	0.1282	0.276	0.321	381	423	80.5	13225
240	0.0754	0.0986	0.305	0.308	436	494	86.3	15515
300	0.0601	0.0799	0.340	0.299	485	556	92.5	18095
400	0.0470	0.0634	0.375	0.285	537	612	101.6	21260
Three Cores, Aluminium Conductor Cables								
35	0.8680	1.1130	0.159	0.427	123	127	57.3	4870
50	0.6410	0.8220	0.177	0.394	145	152	60.4	5270
70	0.4430	0.5683	0.202	0.370	177	188	64.0	5820
95	0.3200	0.4107	0.217	0.357	210	225	67.7	6460
120	0.2530	0.3250	0.236	0.345	238	259	73.2	8045
150	0.2060	0.2649	0.254	0.336	265	291	76.8	8815
185	0.1640	0.2114	0.276	0.321	300	332	81.1	9675
240	0.1250	0.1618	0.305	0.308	346	391	86.0	10775
300	0.1000	0.1302	0.340	0.299	387	442	91.8	12050
400	0.0778	0.1025	0.375	0.285	434	495	101.6	13900

- 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.