

SINGLE CORE CABLES 18/30 (36) KV



MULTI CORE CABLES 18/30 (36) KV



Single & Multi Core Cables, with stranded Circular Aluminum conductors, XLPE insulated, aluminum wire armored or Steel wire armored and LSHF Sheath.

Description

- Stranded circular compacted Aluminum conductor, Semi-conducting layer as conductor screen, XLPE insulated, semi-conducting layer as non metallic insulation screen, copper tape or wire as metallic insulation screen, cores are assembled together with non hygroscopic polypropylene fillers and wrapped with binder tape, covered with a layer of LSHF compound as bedding, aluminum wire armored or steel wire armored and LSHF sheathed.
- Cables are produced according to IEC 60502-2 or BS7835.

Application

- These cables are generally suitable for direct burial or for installation on trays or in ducts.

SINGLE CORE CABLES

Product Code	Nominal Cross sectional area mm ²	Max. Conductor Resistance		Capacitance µf/km	Inductance		Current Rating					Approx. Overall Diameter mm	Approx. Weight Kg/Km	
		DC at 20 °C Ω/km	AC at 90 °C Ω/km		Trefoil mh/km	Flat mh/km	Laid in ground			Laid in free air (Shaded)				
							Flat	Trefoil	Duct	Flat Touched	Trefoil Touched			
1 Core - AL/XLPE/AWA/LSHF														
AT14X501XL	50	0.641	0.8219	0.1412	0.4910	0.5372	162	162	139	192	195	36.2	1465	
AT15X501XL	70	0.443	0.5682	0.1567	0.4640	0.5102	199	198	170	238	242	37.8	1615	
AT16X501XL	95	0.32	0.4105	0.1711	0.4433	0.4895	237	236	203	288	290	39.3	1760	
AT17X501XL	120	0.253	0.3247	0.1844	0.4270	0.4732	268	267	231	330	332	40.7	1895	
AT18X501XL	150	0.206	0.2646	0.1976	0.4193	0.4656	299	297	260	374	374	43.5	2225	
AT19X501XL	185	0.164	0.2109	0.2135	0.4025	0.4488	337	334	293	427	424	45.4	2445	
AT20X501XL	240	0.125	0.1611	0.2349	0.3861	0.4323	389	381	340	500	492	47.9	2765	
AT30X501XL	300	0.1	0.1293	0.2571	0.3717	0.4180	436	423	383	570	555	50.5	3100	
AT40X501XL	400	0.0778	0.1012	0.2820	0.3568	0.4030	493	472	436	656	631	53.4	3525	
AT50X501XL	500	0.0605	0.0796	0.3142	0.3443	0.3905	556	524	496	755	716	57.3	4080	
AT60X501XL	630	0.0469	0.0628	0.3462	0.3326	0.3788	623	575	559	861	805	61.2	4755	
AT70X501XL	800	0.0367	0.0506	0.3900	0.3186	0.3649	691	625	626	979	898	66.2	5630	

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		DC at 20 °C Ω/km	AC at 90 °C Ω/km			Ground	Duct	Laid In Free Air			
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3 Core - AL/XLPE/SWA/LSHF											
AT14X503WL	50	0.641	0.8220	0.1412	0.4333	155	130	176	72.6	7515	
AT15X503WL	70	0.443	0.5682	0.1567	0.4091	188	158	218	76.4	8275	
AT16X503WL	95	0.32	0.4106	0.1711	0.3909	224	190	262	80.1	9005	
AT17X503WL	120	0.253	0.3248	0.1844	0.3766	254	215	299	83.3	9620	
AT18X503WL	150	0.206	0.2647	0.1976	0.3645	284	241	337	86.5	10335	
AT19X503WL	185	0.164	0.2110	0.2135	0.3492	321	274	384	90.6	11275	
AT20X503WL	240	0.125	0.1613	0.2349	0.3350	370	316	447	96.1	12550	
AT30X503WL	300	0.1	0.1297	0.2571	0.3228	416	357	508	101.5	13885	

- The above data is approximate and subjected to manufacturing tolerance.
- This data is applicable also for 19/33 KV.



Min Bending radius = 20xD
Where D is the final cable diameter

