

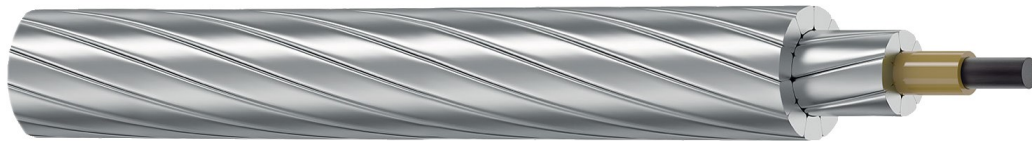
Aluminium Conductor Composite Core ACCC

**Specification : ASTM B 857, ASTM B 609
Manufacturer Specification**

Application : Used for overhead power transmission lines

Construction

Conductor : The central is a proprietary high strength carbon fiber composite core and around which are aluminium wires trapezoidal concentric lay stranded



Code Name	Nominal Cross Section Area	Number Of Aluminium Wire	Overall Diameter Approx.	Approx. Weight of Conductor	DC Resistance at 20°C Max.	Current Carrying Capacity *	Rated Ultimated Strength
	mm ²	mm	mm	kg/km	Ω/km	A	kg
Helsinki	160	16	15.65	480	0.1861	792	64.0
Copenhagen	220	16	18.29	670	0.1279	1,008	65.6
Lisbon	310	16	21.78	957	0.0888	1,285	93.2
Amsterdam	360	20	23.55	1,113	0.0761	1,426	110.6
Brussels	415	20	25.14	1,275	0.0673	1,552	122.1
Stockholm	460	20	26.40	1,406	0.0612	1,655	141.1
Warsaw	510	22	27.72	1,536	0.0556	1,766	142.3
Dublin	520	22	28.15	1,559	0.0541	1,800	166.4
Hamburg	550	22	28.62	1,646	0.0513	1,858	143.2

*** Condition of Current Carrying Capacity Calculation**

- Conductivity of Aluminium : 63%
- Ambient Temperature : 35° C
- Wind Velocity : 0.6 m/s
- Solar Radiation : 0.1 W/cm²
- Radiation Factor : 0.9
- Emissivity Coefficient : 0.9
- Continous Operating Temperature : @175° C