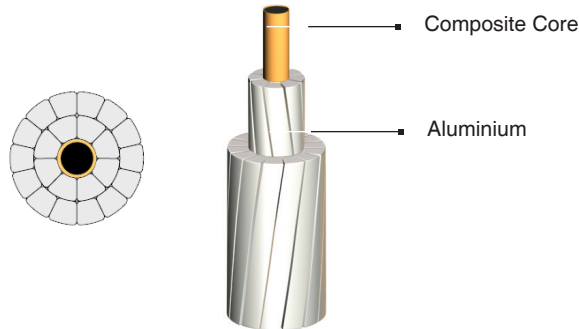




Mechanical Properties

Type Code Name	Stranding		Nominal Diameter (mm)		Cross Sectional Area (mm ²)		Nominal Weight (kg/km)			Rated Strength (kN) min.
	No. of Al Layers	No. of Al Wires	Total	Core	Total	Al	Total	Al	Core	
Helsinki 160	2	16	15.65	5.97	180.9	152.9	480	426	54	64.0
Copenhagen 220	2	16	18.29	5.97	251.0	223.0	670	616	54	65.6
Reykjavik 225	2	20	18.82	7.11	266.2	226.5	702	626	76	91.1
Glasgow 230	2	16	19.53	7.75	283.8	236.7	742	655	87	107.4
Lisbon 310	2	16	21.78	7.11	358.4	318.7	957	881	76	93.2
Amsterdam 360	2	20	23.55	7.75	418.5	371.3	1,113	1,026	87	110.6
Brussels 415	2	20	25.14	8.13	477.2	425.3	1,275	1,177	98	122.1
Stockholm 460	2	20	26.40	8.76	527.5	467.2	1,406	1,293	113	141.1
Warsaw 510	2	22	27.72	8.76	574.9	514.6	1,539	1,426	113	142.3
Dublin 520	2	22	28.15	9.53	594.8	523.5	1,559	1,427	132	166.4
Mahakam 540	3	36	29.00	10.54	631.9	544.6	1,675	1,509	166	257.0
Hamburg 550	2	22	28.62	8.76	613.8	553.5	1,646	1,533	113	143.2
Vienna 620	3	36	30.42	8.76	689.3	629.1	1,854	1,741	113	145.0
Prague 690	3	36	31.77	8.76	758.0	697.7	2,032	1,919	113	146.5

Note :

- Thermal Expansion (CTE/1°C)
 - Aluminium : 23×10^{-6}
 - Core : 1.61×10^{-6}
- Modulus Elasticity
 - Aluminium : 58 GPa
 - Core : 112 GPa

• Standard Packing Length : 2400 m , 3600 m

Electrical Properties

Type Code Name	Max DC Resistance at 20°C (Ω/km)	Current Carrying Capacity * (A)	Inductive Reactance at 50 Hz for 1 feet radius (Ω/km)	Capacitive Reactance at 50 Hz for 1 feet radius (MΩ.km)
Helsinki 160	0.1861	792	0.246	0.210
Copenhagen 220	0.1279	1,008	0.236	0.201
Reykjavik 225	0.1280	1,018	0.234	0.199
Glasgow 230	0.1192	1,068	0.232	0.197
Lisbon 310	0.0888	1,285	0.225	0.191
Amsterdam 360	0.0761	1,426	0.220	0.186
Brussels 415	0.0673	1,552	0.216	0.183
Stockholm 460	0.0612	1,655	0.213	0.180
Warsaw 510	0.0556	1,766	0.210	0.177
Dublin 520	0.0541	1,800	0.209	0.176
Mahakam 540	0.0526	1,845	0.208	0.174
Hamburg 550	0.0513	1,858	0.208	0.175
Vienna 620	0.0455	2,015	0.204	0.172
Prague 690	0.0412	2,148	0.202	0.169

* Condition of Current Carrying Capacity Calculation (Ref. IEC 61597)

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