



S.M.C

Properties of Overhead Conductors - Modulus of Elasticity and Coefficient of linear expansion

Modulus of Elasticity and Coefficient of Linear Expansion table.

Number of Wires in Conductor		Final Modulus of Elasticity N/mm ²	Coefficient of Linear Expansion Per°C
HDBC			
7		110800	17.0 X 10 ⁻⁶
19		102900	17.0 X 10 ⁻⁶
37		102900	17.0 X 10 ⁻⁶
AAC			
3		61700	23.0 X 10 ⁻⁶
7		59000	23.0 X 10 ⁻⁶
19		56000	23.0 X 10 ⁻⁶
37		56000	23.0 X 10 ⁻⁶
ASCR			
ALUMINIUM	STEEL		
6	1	79000	19.1 X 10 ⁻⁶
6	7	75000	19.8 X 10 ⁻⁶
7	7	74500	18.6 X 10 ⁻⁶
12	7	105000	15.3 X 10 ⁻⁶
14	19	99000	15.4 X 10 ⁻⁶
18	1	66000	21.2 X 10 ⁻⁶
24	7	72500	20.0 X 10 ⁻⁶
26	7	75500	19.2 X 10 ⁻⁶
30	7	80000	17.8 X 10 ⁻⁶
42	7	60800	21.3 X 10 ⁻⁶
45	7	62700	20.8 X 10 ⁻⁶
48	7	64700	20.2 X 10 ⁻⁶
54	7	69000	19.3 X 10 ⁻⁶
54	19	62700	19.3 X 10 ⁻⁶