

Fator raio médio geométrico

The geometric mean radius factor depends on the construction of the conductor, the number of stranded wires and the compaction of the strand.

The IEC 60287-1-3 Ed.1.0 Table 1 lists values factor K

- Values in the standard are for 1 (solid), 3, 7, 19, 37, 61, 91, and 127 number of wires, the other values are interpolated.
- The given values are applicable to non-compacted circular conductors.
- The equation for a single solid wire is $\exp(\frac{-1}{4})$ being equal to 0.77880078...
- For compacted conductors the value for solid conductor is used (0.7788).
- Values for hollow conductors are dependant on the inner and outer diameter of the conductor as by example in annex B of the the IEC standard.
- No information was given for shaped conductors, the same values are taken as for non-compacted circular conductors.

Símbolo

K_{GMR}

Fórmulas

$e^{-(\frac{1}{4})}$

Relacionado

n_{cw}

Número de fios condutor

Usado em

GMR_c

Raio médio geométrico condutor [m]

Escolhas

Number of wires	Factor K
1	0.7788
3	0.678
6	0.714
7	0.726
12	0.739
15	0.747
18	0.755
19	0.758
30	0.764
34	0.766
35	0.767
37	0.768
47	0.77
53	0.771
58	0.772
61	0.772
91	0.774

Number of wires	Factor K
127	0.776
169	0.777
217	0.778
271	0.7785

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