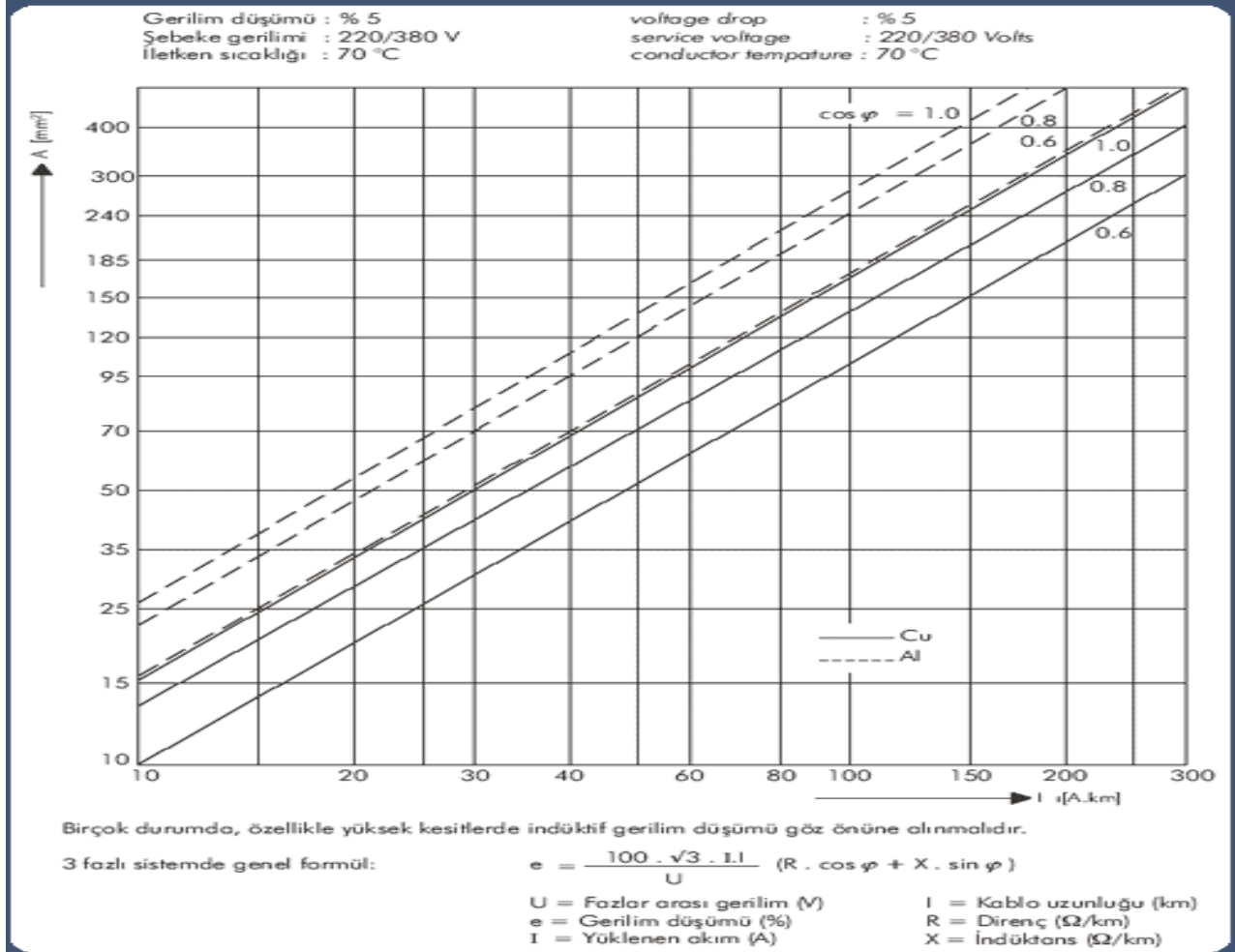


Alçak Gerilim Kablolarında Gerilim Düşümü
Voltage Drop at Low Voltage Cables



In many cases, especially for large cross sections, the inductive voltage drop must be taken into consideration.

General formula for three phase systems:

$$e = \frac{100 \cdot \sqrt{3} \cdot I \cdot l}{U} (R \cdot \cos \varphi + X \cdot \sin \varphi)$$

U = Phase to phase voltage (V) l = Length of cable (km)
e = Voltage drop (%) R = Resistance (Ω/km)
I = Current loading (A) X = Inductance (Ω/km)

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