

# 1. CALCULATION FORMULA:

$$\text{FOR AC.3 } \varnothing \Delta U = \frac{R_{20} \times K \times 2L \times I}{V} \times \frac{1.73}{2} \times \delta \times 100\%$$

$$\text{FOR AC.1 } \varnothing \Delta U = \frac{R_{20} \times K \times 2L \times I}{V} \times \delta \times 100\%$$

$$\text{FOR DC } \Delta U = \frac{R_{20} \times K \times 2L \times I}{V} \times 100\%$$

HERE:

I - MAX LOAD CURRENT (A)

L - CABLE LENGTH (m)

U - RATED VOLTAGE (V)

R<sub>20</sub> - CABLE RESISTANCE AT 20°C (Ω/m)

SEE TABLE 1.1

K - ELECTRIC CONDUCTOR TEMPERATURE FACTOR

K = 1.26

δ - CABLE INDUCTION VOLTAGE DROP FACTOR

SEE TABLE 1.1