

# Allowable intensity

## Permissible current rating

The steady operating current shall be such that the temperature reached by the conductor shall not be greater than 90 °C or 105 °C (See values on table below).

Example :  
Flexible Element ES 24X1X8 CRN  
Room temperature  $T_a = 40^\circ\text{C}$   
Red copper conductor  $\Delta T = 50^\circ\text{C}$   
Then  $T_a + \Delta T = 90^\circ\text{C}$   
Select in the column 50°C rise the suitable current  
In this case the current is 700 A.

Note: According to L'UL recommendation, the current shall not be greater than 90°C for the red copper busbar and 105°C for tinned copper busbar